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January 10, 2025

Ms. Renee Romero
New Mexico Environment Department
Petroleum Storage Tank Bureau
1914 West Second Street
Roswell, New Mexico 88201-1712

Re: Third Quarter O&M and Groundwater Monitoring Report
Former Y Station, 721 Commerce Way, Clovis, New Mexico
Facility #53742, Release ID #4746, WPID #4339

Dear Ms. Romero:

Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to submit the enclosed report summarizing dual-phase extraction (DPE) system operation and maintenance (O&M) activities conducted at the subject site from July 10 through October 18, 2024 and groundwater monitoring activities conducted in August 2024. All work was completed in accordance with the requirements of Section 20.5.119 of the New Mexico Administrative Code (NMAC), DBS&A standard operating procedures (SOPs), and the approved work plan.

DBS&A plans to invoice the reduced amount of $71,296.99, including NMGRT for Deliverable ID #4339-4 to reflect a reduction in the number of samples collected. Please do not hesitate to call us at (505) 822-9400 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Thomas Golden, P.E.
Senior Engineer

Grace Herrmann, P.E.
Project Engineer

GH/tg/rpf
Enclosure
cc: Katherine McNeil, NMED PSTB

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Third Quarter DPE O&M and Groundwater Monitoring

Former Y Station
Clovis, New Mexico
Facility #53742, Release ID #4746
WPID #4339

Prepared for

New Mexico Environment Department
Petroleum Storage Tank Bureau
Roswell, New Mexico

Prepared by

DBS&A
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1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this quarterly monitoring report for the Former Y Station State Lead site in Clovis, New Mexico (the site). The report documents the third quarter of operation and maintenance (O&M) for the dual-phase extraction (DPE) system from July 10 through October 18, 2024, as well as groundwater monitoring activities conducted at the site August 25 through 29, 2024. This report was prepared in accordance with the requirements of Part 119 of the New Mexico Petroleum Storage Tank Regulations (PSTR) and DBS&A standard operating procedures (SOPs). The work plan for remediation system startup and operation was submitted to the NMED PSTB on September 20, 2023 (DBS&A, 2023), and was approved under WPID #4339 on September 28, 2023 (NMED, 2023).

1.1 Site History

The site is located at 721 Commerce Way in Clovis, New Mexico (Figure 1), and is currently occupied by an optical retail center; the site includes the intersection of Prince Street and Commerce Way. It is surrounded by a variety of other commercial land uses, such as big box retail stores, fast food restaurants, and gasoline service stations. Residential neighborhoods are adjacent to the west and east of the Prince Street commercial corridor.

Initial site investigation activities conducted by the previous consultant in 2011 were driven by the discovery of a release during a tank pull at the Allsup's No. 320 (Allsup's) site, located at the corner of Prince and 21st Streets (Figure 2). Subsequent investigations from 2012 to 2016 revealed a large dissolved-phase hydrocarbon plume south of the Allsup's site, centered near the intersection of Prince Street and Commerce Way.

Interviews with local residents and inspection of public records by the previous consultant revealed that a fueling station was formerly present on the southwest corner of Prince Street and Commerce Street, locally referred to as "the Y." The Former Y Station was reportedly active from the late 1950s through approximately 1981. The intersection has been reconfigured since that time, and what was the site is now active traffic lanes and the Optical Source retail outlet.

The previous consultant oversaw installation of 10 groundwater monitor wells (BW-1 through BW-10) in the vicinity of the Former Y Station, including 3 wells on the Allsup's property (Figure 2), and conducted limited soil vapor extraction (SVE) feasibility testing at the Allsup's site. Benzene was the constituent detected at the highest concentrations in groundwater and with

the greatest areal extent. Concentrations of other contaminants of concern (COCs) above applicable regulatory standards were typically localized near the center of the benzene plume.

Under the previous State Lead remediation services contract executed on May 15, 2018, DBS&A initiated two additional site investigation programs, which included installation of 12 monitor wells and/or remediation wells at the site (RW-1 through RW-4, BW-7R, and MW-11 through MW-17) (Figure 2). The primary goals of these investigations were to (1) characterize soil and groundwater conditions directly under the site of the Former Y station and (2) attempt to delineate the downgradient extent of the dissolved-phase contaminant plume. Additional investigation activities also included step and constant-rate aquifer pumping tests at newly installed monitor well MW-11, analysis of the physical properties of aquifer materials, and groundwater modeling to assess the feasibility of the proposed remediation approach.

Based on findings from the additional investigations, DBS&A proceeded with design and implementation of a DPE system. The proposed remediation system prioritizes removal of source area mass near the point of release using multi-zone DPE remediation wells to remove light nonaqueous-phase liquid (LNAPL) and residual hydrocarbons in the vadose zone, and is coupled with a pump-and-treat approach to speed remediation of the dissolved-phase contaminant plume in groundwater (Figure 3). The remedial design was presented in the final remediation plan (FRP) dated July 16, 2021 (DBS&A, 2021). Remediation system construction occurred from December 2021 through April 2022, and was documented in an as-built report dated May 2, 2022. Due to the end date of the previous contract, remediation system startup did not occur.

During the week of May 31, 2022, monitor wells BW-1 through BW-3 were plugged and abandoned by another consultant. Results from at least eight consecutive monitoring events showed contaminant concentrations below groundwater quality standards. A no further action (NFA) letter was issued for the Allsup's No. 320 site on August 8, 2022. There are currently 19 active monitor and remediation wells associated with the Former Y Station State Lead site (Figure 2).

DBS&A responded to a request for proposals (RFP) for a State Lead remediation services contract to operate the remediation system for this site, with proposals submitted to the PSTB on April 11, 2022, April 3, 2023, and May 26, 2023. DBS&A was selected as the most responsive bidder and entered into a contract with NMED that was executed on July 1, 2023. DBS&A coordinated shakedown and startup of the remediation system in October and November 2023,

and submitted a revised as-built report dated January 8, 2024 that incorporated data from the first month of system operation (DBS&A, 2024).

The work described in this report follows the tasks outlined in the approved work plan, approved requests for contingency set-aside funding, and discussions with the PSTB project manager.

1.2 Remediation System

The remediation system designed for the site is a DPE system, including SVE and whole-fluids extraction. A total of 10 wells are connected to the remediation system using buried conveyance piping. Boring logs for the remediation wells are provided in Appendix A. The survey report is provided in Appendix B.

A total of 5 multi-zone nested wells (BW-8 and RW-1 through RW-4) are clustered around the former source area. Five additional single-zone remediation wells (BW-7R, MW-11, MW-12, MW-13, and MW-16) were installed to address downgradient contamination. Monitor well MW-13 was intended to be a contingency well, but has been operating with the remediation system since startup. Remediation wells are connected to one of three primary SVE conveyance (trunk) lines that are routed to a common manifold using Schedule (SCH) 40 polyvinyl chloride (PVC) piping. The primary trunk lines from source area wells (SVE line 1) and downgradient wells (SVE line 2) are 8-inch- and 4-inch-diameter, respectively. A 2-inch-diameter pipe conveys flow from MW-13 (SVE line 3). The manifold is an 8-inch SCH 40 PVC header, with SCH 40 PVC risers and fittings sized to match the three primary trunk lines. The risers include an analog vacuum gauge, sample port, and a plug for an insertion-type air flow meter. A single trunk line was constructed of 1.5-inch-diameter SCH 40 PVC for the conveyance of combined groundwater from the extraction wells, and is co-located with the SVE conveyance lines. Each extraction well feeds directly into this single conveyance line.

Major remediation equipment was manufactured by Intellishare Environmental (Intellishare) of Menomonie, Wisconsin and H2K Technologies (H2K) of Corcoran, Minnesota. Remediation equipment currently installed includes an Intellishare skid-mounted natural gas fired thermal oxidizer with catalyst module, discharge stack, LNAPL tank, an SVE treatment system package (blower, knockout tank, and controls), and a groundwater treatment system package (oil-water separator, diffused tank aerator [DTA], and clarifier). The two equipment packages are assembled in modified shipping containers. Remediation equipment is located within a fenced compound in the parking lot of the Albertson's grocery store (Figure 3).

Source area wells RW-1 through RW-4 have a Grundfos model 5SQ05-320 ¾-horsepower (hp) pump, and the downgradient groundwater extraction wells have a Grundfos model SP 5S10-22 1-hp pump. Each wellhead includes a totalizing flow meter, hose bib (for collection of groundwater samples), analog pressure gauge, and air release valve (ARV). Each well also includes a pressure transducer for remote monitoring of fluid levels and control of the pumps.

Utility services required to operate the remediation equipment include electric, which is provided by Xcel Energy (Xcel), and natural gas, which is provided by New Mexico Gas Company (NM Gas). The system also includes a cellular-based telemetry system that operates on the Verizon network. Daily system updates on system operation are provided through e-mail, in addition to alarm conditions and the ability to remote-start the equipment.

1.3 Scope of Work

The scope of work included under WPID #4339 includes 12 months of O&M for the remediation system, quarterly groundwater monitoring, and associated reporting. To ensure that the project objectives were achieved, an authorized representative of DBS&A maintained direct supervisory control of all aspects of the project.

1.4 Quarter Highlights

The principal accomplishments of this reporting period include the following:

- July 12 and 29, August 14 and 26, September 12 and 26, and October 7 and 8, 2024: Recorded DPE system operations data; sampled process vapor and water for laboratory analysis.
- July 12, 2024: Installed new check valves in the wellhead surface piping.
- August 13, 2024: Installed a new electrical breaker for extraction well MW-16.
- August 25 through 29, 2024: Performed quarterly groundwater monitoring. Gauged fluid levels in 19 site monitor wells and collected groundwater samples from 14 site monitor wells for laboratory analysis.
- August 27 through 30, 2024: Performed extraction well scrubbing, jetting, and disinfection.
- August 30, 2024: Collected a groundwater sample from RW-3.
- September 16 and 18, 2024: Replaced the gas control valve on the thermal oxidizer.

The SVE equipment operated without interruption from July 13 to August 13, 2024. The thermal oxidizer experienced a fault on August 13, 2024 due to an issue with the gas modulating valve on the thermal oxidizer. The system was restarted on August 14, 2024, and the gas control valve was proactively replaced on September 16, 2024. Though there were short interruptions to SVE operation following the replacement, there were no further issues with the gas control valve during the third quarter of operation. The groundwater extraction and treatment system operated the entire quarter, although several wells were out of service during the third quarter. These issues are further explained in Section 2.2. Due to extraction pump faults and because pumps were out of service, quarterly groundwater samples could not be collected from wells RW-1, RW-2, RW-4, MW-11, or MW-16 during the third quarter.

2. Remediation System Operation and Maintenance

Remediation system O&M included six regular visits for the reporting period, with system operation data and laboratory sample collection performed during each event, as well as four additional visits for system optimization and troubleshooting. Evaluation of the remediation system was performed continuously using daily updates and alarm notifications from the telemetry system. Vapor monitoring, including field screening and sampling for laboratory analysis, was performed during the six regular site visits. Water samples were collected at each regular O&M event. Operation data for both the remediation system and individual wellheads are provided in Tables 1 and 2. Field notes and forms are provided in Appendix C.

2.1 System Operation Data

Field screening data included air flow, vacuum, and vapor concentrations, as well as installed instrumentation. Vacuum in the SVE lines was measured at each of the wellheads and the manifold using a Dwyer Series 574 Mark III digital manometer. Vapor samples were collected in Tedlar bags using a Xitech High Vacuum Air Sampler at the wellheads and manifold. The vapor samples were field screened with a Honeywell MiniRAE 3000 photoionization detector (PID) for contaminant concentrations. Air flow and velocity were measured at each wellhead and at the manifold with a TSI VelociCalc Series 9535. Data were also collected from the control panels of the installed remediation equipment.

As recorded from the SVE system control panel, total system air flow has ranged from 777 standard cubic feet per minute (scfm) at the start of the quarterly period in July 2024 to 508 scfm at the end September 2024. This decrease is a result of the SVE component of the

remediation system being turned off at RW-3 (shallow and intermediate zones), RW-4 (shallow and intermediate zones), BW-7R, MW-11, MW-12, MW-13, and MW-16 due to low influent concentrations, and RW-2 (shallow, intermediate, and deep zones) being turned off due to pump servicing. Air flow measured using the VelociCalc has been higher throughout the operation of the system, but these measurements may be affected by the piping configuration or minor amounts of moisture in the process air. Mass removal calculations use the lower air flow measured by the system, which produces conservative (lower) estimates of mass removal. Vacuum at the SVE blower ranged from 48 to 74 inches water column (inches H_2O) (Table 1). As SVE wells were turned off, the system vacuum increased, which increased wellhead vacuum at the wells that remained active. The SVE blower was adjusted to balance the increase in vacuum, and operated between 33 and 45 hertz (Hz). The Intellishare representative tested the blower at higher speeds during startup, but did not observe a noticeable increase in mass removal.

The combined influent PID reading during system startup initially exceeded the capacity of the PID (greater than 15,000 parts per million by volume [ppmv]). PID readings in the third quarter of operation ranged from 394 to 948 ppmv. PID readings do not always correlate to laboratory concentrations, but these values are a positive indicator of high mass removal. PID readings from the oxidizer discharge have been below 100 ppmv since January 16, 2024 (Table 1).

2.2 Wellhead Operation Data

Air flow for individual zones of the source area wells (RW-1 through RW-4 and BW-8) has ranged from approximately 30 to 65 scfm. When the wells are operating, air flow for downgradient wells BW-7R, MW-11, MW-12, and MW-13 has ranged from approximately 60 to 90 scfm. These flow rates have been in line with expected air flow based on limited pilot testing performed by the previous consultant. Observed variability was expected based on slight variations in lithology and changes in well operation. Applied vacuum at the wellhead was approximately 35 to 40 inches H_2O.

PID results from field screening are presented in Figures 4 through 7 and Table 2. The highest PID readings have been in the deep zone of the source area wells (RW-1 through RW-4 and BW-8). Since startup, values have generally been between 1,000 and 3,000 ppmv. PID readings have also remained relatively steady for the intermediate and shallow zones of RW-2, while decreasing in these zones for other nested wells. As expected, PID readings have been lowest in the downgradient wells (BW-7R, MW-11, MW-12, MW-13, and MW-16), with values consistently below 100 ppmv. Based on consistent low PID readings, DBS&A discontinued SVE operations at all downgradient wells on September 26, 2024. Additional data are needed to determine if PID

concentrations in the source area wells will increase as the applied vacuum is increased. DBS&A will continue to monitor trends in individual zones and wells to optimize mass removal from the SVE component of the remediation system, and will be pulsing low-performing wells to maximize removal of contaminants.

Water flow meter readings for individual wells and the treated water discharge are presented in Table 3, together with readings from the pressure transducer installed in each well. Due to pump starter and transducer failures, as well as well maintenance activities, source area wells (RW-1, RW-2, RW-3, and RW-4) were mostly offline during the third quarter. Downgradient wells BW-7R and MW-13 were operational throughout the entire quarter. Downgradient well MW-16 was offline. MW-11 and MW-12 operated intermittently.

DBS&A is evaluating operating water levels and extraction volumes in an effort to optimize mass removal from the groundwater system, monitor well performance, and minimize submerging contamination below the current static water level. As noted in the previous quarterly report, groundwater extraction was decreasing for many of the site remediation wells due to biofouling of the well screens, conveyance, and flow metering instrumentation. DBS&A implemented another rigorous disinfection and well rehabilitation program during third quarter O&M to remediate groundwater treatment system components. Many of the maintenance and operational issues noted have been resolved in the fourth quarter.

As of October 7, 2024, the remediation system had treated nearly 1.9 million gallons of petroleum-contaminated water. This is the totalized flow volume recorded by the treated water discharge flow meter. This reading has been consistently about 63 percent of the sum total flow as reported from the individual groundwater extraction wells. The treated discharge flow meter was calibrated by PureOps on February 20, 2024, and the meter has 99.8 percent accuracy (Appendix C). The flow meter manufacturer suspects that the piping configuration within the vaults may be affecting flow measurement if there is not enough straight pipe before the flow meters at the wellheads.

In accordance with existing discharge permits/agreements, DBS&A reports water flow meter readings to both the City of Clovis (the City) and the New Mexico Office of the State Engineer (OSE). As described in the second quarter report, field audits show that when individual well readings are in error, they are overestimates of actual withdrawals. DBS&A does not suspect that any under-reporting to OSE has occurred.

2.3 Laboratory Sampling

Laboratory samples were submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico for volatile organic compound (VOC) and inorganic analyses in accordance with the approved work plan. Groundwater samples were collected at the combined influent point of the treatment system prior to oil-water separation, and at the discharge point after clarification. Groundwater samples for individual wells were collected during the quarterly groundwater monitoring event, as discussed in Section 3. Air samples were collected at the SVE combined influent (manifold), at the oxidizer effluent (discharge stack), and from the DTA effluent. Air samples from individual wells are collected at the wellhead for field screening purposes only. Laboratory results, including chain of custody documentation, are provided in Appendix D.

The combined oxidizer influent sample from October 7, 2024 is not representative of the normal trends observed for influent vapors and does not correlate to PID field screening concentrations. Initial results from the fourth quarter are more consistent with expected concentrations and previous sample results, confirming the October 7, 2024 result as an outlier. The influent sample result from this date has been flagged as not representative in the report tables and, for the purposes of mass removal estimation, the PID concentration was used to calculate a milligrams per liter (mg/L) concentration. The DBS&A project manager audited the sampling and data collection techniques of the field staff team and provided additional training in proper collection techniques, handling, and labeling of samples.

The analytical results for SVE combined influent air laboratory samples collected during startup showed total petroleum hydrocarbon gasoline-range organics (TPH GRO) concentrations of 36,000 and 34,000 micrograms per liter (µg/L) on November 1 and 3, 2023, respectively. TPH GRO concentrations in influent air samples ranged mostly from 1,800 to 7,200 µg/L in the third quarter. Concentrations fluctuated as SVE was turned off at additional wells throughout the quarter. Since December 2023, thermal oxidizer destruction efficiency has averaged greater than 99 percent.

During this period of operation, concentrations of all COCs varied for combined influent (raw) water samples based on which wells were in operation and the extraction flow rates at each well. Concentrations of 1,2-dibromoethane (EDB) in treated water samples exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard. However, treated water is routed to the City wastewater treatment plant for additional treatment. The average EDB concentration was 0.07 µg/L (Table 5). Average benzene, EDB, and 1,2-dichloroethane (EDC) treatment efficiencies have been 98.0, 93.8, and 98.4 percent, respectively, which are typical for the various

constituents based on the installed treatment equipment. Treatment efficiencies have been trending higher as operation continues.

Raw and treated water samples were also analyzed for a limited number of inorganic constituents. Average chloride, nitrate (as nitrogen), and sulfate concentrations for influent (raw) water samples collected this quarter were 78, 1.5, and 45 mg/L, respectively, which are below the NMWQCC standards. Average total dissolved solids (TDS) concentration was approximately 505 mg/L (Table 6). The TDS concentration in the treated water sample has generally been similar to that of the influent (raw) water sample.

2.4 Contaminant Removal Performance

Calculations based on two methods (laboratory and PID analysis) were performed to estimate hydrocarbon mass removal by the SVE system (Appendix E). The laboratory analysis method indicated that hydrocarbon mass removal rates averaged approximately 13.4 pounds per hour (lb/hr), which is lower than the rates for the first two quarters. Results obtained from the PID analysis were lower (6.7 lb/hr). However, concentration estimates measured in the field using a portable PID are considered to be for screening purposes only, and do not typically correlate to mass concentrations measured with laboratory data. According to calculations using the laboratory results, and considering removal from both air and water processes, a total mass of over 111,000 pounds (18,500 gallons) of hydrocarbons was removed from the site using the installed remediation equipment (Figure 8).

Calculations for estimated emission rates from the remediation system are also provided in Appendix E. Since startup, average emission rates for benzene and TPH GRO are 0.047 and 0.85 lb/hr, respectively, which are below applicable air permitting standards. Emission rates are generally trending lower with continued operation of the remediation equipment. Based on discussions with Intellishare, DBS&A suspects that oxygen deficiency in the subsurface reduced initial thermal oxidizer efficiency, resulting in incomplete combustion of hydrocarbons. Operation of the remediation system is likely increasing oxygen content and lowering influent contaminant concentrations over time.

During this quarter, electricity was consumed at an average rate of 284 kilowatt-hours (kWh) per day, at an average daily cost of $23.02. Natural gas was consumed at an average rate of 230 therms per day, at an average daily cost of $146.12 (Table 7).

2.5 DPE System Maintenance

As mentioned in the second quarter report, McNiel Electric replaced the low fire switch within the natural gas and combustion air control valve, which was deemed defective at the end of the second quarter. In addition, the starter on the treated water discharge pump was replaced. Alarms or errors associated with the discharge pump will shut down SVE system operations because the moisture separator is drained into the groundwater treatment system. These controls prevent the groundwater treatment equipment from overflowing if the discharge pump cannot remove water from the clarifier. Repairs for the thermal oxidizer and the discharge pump occurred the week of June 17, 2024 during the shutdown period prior to third quarter operations. The control valve continued to present issues after repairs were completed. The entire control valve assembly was replaced the week of September 16, 2024.

During the shutdown period between the end of second quarter operation and the start of the third quarter, McNiel Electric also worked with Xcel Energy to investigate a voltage imbalance that was observed at the site. Xcel Energy recorded the supplied voltage supplied to the site. While their official findings were not reported to McNiel or DBS&A, the voltage imbalance was corrected following their investigation.

As the aquifer has become oxygenated, bacterial growth has increased in the groundwater conveyance lines, fittings, and flow meters, causing reduced water flow rates at some of the wells. During the third quarter groundwater monitoring event, DBS&A performed an extensive well rehabilitation program, during which the pumps were removed and the screens were jetted with a mixture of water and acetic acid and scrubbed with a brush. Additional disinfection will be needed at more frequent intervals to maintain system operation and effectiveness. DBS&A currently recommends jetting and scrubbing well screens quarterly for optimal performance. There has been no visible improvement in removal of biomass in the conveyance piping, but more frequent disinfection could cause that biomass to deteriorate and flush into the groundwater treatment system, where it can be removed as sludge.

Bacterial growth has had a significant impact on the extraction pump performance. DBS&A replaced several pump motors and pump assemblies throughout the system during the groundwater monitoring event and well rehabilitation program. Pump motor starters continued to be an issue during this quarter of operation. Further investigation and corrective action by McNiel Electric is ongoing.

DPE system and oxidizer maintenance were completed following the manufacturer-suggested schedules. Groundwater treatment vessels were cleaned during this groundwater monitoring event and fresh water was used to refill the tanks. Monthly maintenance items included clearing condensate from instrumentation tubing, exercising the process air and dilution valves, treating foam accumulation in the clarifier with liquid household bleach, and inspecting the dilution air and process blower air filter to check for clogging. The product tank level was checked biweekly. SVE blower oil was changed approximately monthly. The motor bearings were greased at each O&M event per the manufacturer's instructions.

3. Groundwater Monitoring

The August 2024 groundwater monitoring event included gauging water levels at all accessible site wells and collecting groundwater samples in 12 site monitor and remediation wells for laboratory analysis. Due to extraction pump faults and pumps being out of service at the time of monitoring, quarterly groundwater samples could not be collected from wells RW-1, RW-2, RW-4, MW-11, or MW-16 during the third quarter. Wells BW-6, BW-9, and BW-10 were not sampled during the current monitoring event in accordance with the approved work plan, but will be sampled during the fourth quarter event. Groundwater samples collected from the site monitor wells and remediation wells were analyzed for VOCs, including benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), and total naphthalenes, using EPA method 8260B (full list) and for EDB and EDC using EPA method 504.1.

3.1 Groundwater Monitoring

On August 25 and 29, 2024, depth to water was measured with an electronic interface probe in monitor wells that do not contain a submersible pump. Water levels were measured during remediation system operation and again approximately 24 hours after the remediation system was turned off to obtain static water level measurements. Due to the depth to groundwater, DBS&A cannot safely run an electronic interface probe to the water table in wells with pumps, so transducer data are recorded for the 9 remediation wells with pumps. Transducer data are then used to calculate both depth to water and the groundwater elevation. Table 8 summarizes water level measurements and groundwater elevations from this and previous monitoring events. Water level data were used to prepare a potentiometric surface map for the area under static conditions on August 29, 2024 (Figure 9).

Samples from remediation wells equipped with pumps are sampled using the sample tap at the wellhead while the remediation pump is running. These wells were sampled prior to shutting down the system, so results will be indicative of pumping conditions. All other wells are sampled using dedicated, disposable HydraSleeves. The sampling protocol is outlined in Appendix F. Dissolved oxygen (DO), oxidation/reduction potential (ORP), pH, specific conductivity, and temperature were measured in the field during purging using a YSI 556 Multiprobe System (MPS) meter, with the values recorded in the field notes (Appendix C).

Groundwater samples were analyzed for the constituents specified in the scope of work. All laboratory analyses were performed by Eurofins. Groundwater analytical organic chemistry data from this and previous monitoring events are summarized in Table 9. The laboratory reports, including chain of custody documentation, are provided in Appendix D. Figure 10 shows the distribution of dissolved-phase hydrocarbon concentrations in groundwater for the current monitoring event.

3.2 LNAPL Recovery

LNAPL was not detected in any monitor wells during this sampling event. Due to operation of the submersible pumps (emulsifying LNAPL near the water table), LNAPL was not expected to be present in any of the remediation wells. The absence of LNAPL from monitor well BW-5 is a positive indicator of remediation system effectiveness. Historical LNAPL recovery data are provided in Table 10.

3.3 Containment of Release

COCs were detected at concentrations above NMWQCC standards in the following monitor wells during the August 2024 sampling event:

- *Benzene:* BW-5, BW-8, MW-12, MW-15, and RW-3.
- *Toluene:* BW-8.
- *EDB:* BW-5, BW-7, BW-7R, BW-8, MW-12, MW-13, and MW-15.
- *EDC:* BW-5, BW-7, BW-7R, BW-8, MW-12, and MW-13.
- *Total naphthalenes:* BW-5 and BW-8; the laboratory reporting limit for MW-12 was greater than the NMWQCC standard.
- *Xylenes:* BW-5 and BW-8.

Benzene, EDB, and EDC are the COCs detected at the site across the widest areal extent. Plume maps for individual contaminants based on data from the current monitoring event are provided as Figures 11 through 13. Data reported during this monitoring event showed effects of active remediation activities on subsurface contaminant concentrations. Several wells on the perimeter of the contaminant plumes had lower concentrations (e.g., RW-3, MW-13, BW-7, and BW-7R), likely impacted by mobilization of cleaner water outside the plume extent. BW-7R and MW-13 operated with the most consistency during this quarter, whereas other extraction wells operated intermittently or not at all. The decreasing concentrations in MW-13 and BW-7R are a positive indicator of effective remediation in the west side of the plume.

3.4 Trends or Changes in Site Conditions

Graphs showing historical trends in monitor well contaminant concentrations are provided in Appendix G. Groundwater is encountered beneath the site at depths ranging from approximately 322 to 333 feet below ground surface (bgs), and generally flows to the south-southeast with an approximate gradient of 0.003 foot per foot. The overall flow direction and gradient are similar to those noted during previous monitoring events. Since 2014, groundwater elevations have declined by approximately 6.4 feet, resulting in an average annual decline of approximately 0.62 foot per year. As operation of the remediation system continues, DBS&A will evaluate the impacts of drawdown on the water table in future quarterly reports.

Historical groundwater analytical organic chemistry data for site wells are summarized in Table 9. Baseline plume maps are provided in Appendix H. Contaminant concentrations are decreasing for the majority of site wells with operation of the DPE system. Notable trends or changes regarding specific wells are as follows:

- *BW-5:* LNAPL was not measured in this well for the first time since 2018. Concentrations of benzene and EDC increased since the last quarter, but were still significantly lower than the analytical results from 2016. Total xylenes, EDB, and total naphthalenes decreased slightly since the last quarter. Benzene, total xylenes, EDB, EDC, and total naphthalenes concentrations were all above the NMWQCC standards. This well is located between two active remediation wells, RW-3 and RW-4. Operation of these extraction wells has been impacted by biomass accumulation. Reduced extraction rates from these wells continue to impact the amount of cleaner water moving toward BW-5 from outside the plume extent.
- *BW-7:* Between September 2015 and March 2021, the total concentration of BTEX constituents decreased from 17,750 to 1,016.3 µg/L, including individual decreases in

benzene (9,400 to 1,000 µg/L), toluene (5,000 to <2.0 µg/L), ethylbenzene (750 to <13 µg/L), and total xylenes (2,600 to 3.3 µg/L). Since active remediation started, BTEX concentrations have been below laboratory reporting limits, and only concentrations of EDB (0.17 µg/L) and EDC (190 µg/L) continue to exceed the NMWQCC standards. Both concentrations dropped slightly since the last quarter. Concentrations of all other COCs were below laboratory reporting limits. These trends are a positive indicator of remediation system effectiveness.

- *BW-7R:* Concentrations of BTEX constituents are below reporting limits for the first time in the reporting history of this well. This is a positive indicator of ongoing remediation system effectiveness. During the current monitoring event, EDB (1.1 µg/L) and EDC (120 µg/L) were detected at concentrations above the NMWQCC standards. The EDB concentration dropped since the last quarter, from 3.3 µg/L to 1.1 µg/L. As this well has continued to operate, it is likely that cleaner water from outside the plume area is moving toward this well.
- *BW-8:* The concentrations of BTEX constituents decreased by an order of magnitude since the last quarter, and concentrations of all COCs in this well other than EDB (7.3 µg/L) and EDC (25 µg/L) dropped since the last quarter. However, all COC concentrations remain above the NMWQCC standards. The recent changes in COC concentrations are a positive indicator that consistent SVE operation will remediate the source area.
- *MW-11:* A sample was not collected this quarter due to an inoperable pump.
- *MW-12:* Benzene concentration increased from 44 to 250 µg/L, while concentrations of EDB (1.4 to 0.26 µg/L) and EDC (89 to 77 µg/L) both decreased since last quarter. Although the concentration of benzene increased from last quarter, there has been a general decreasing trend since this well was installed in 2019 (1,400 to 250 µg/L). Benzene, EDB, and EDC concentrations continue to exceed the NMWQCC standards.
- *MW-13:* The benzene concentration dropped below the NMWQCC standard for the first time since remediation began—a positive indicator of ongoing remediation system effectiveness. Concentrations of EDB (0.061 µg/L) and EDC (85 µg/L) did not decrease significantly since last quarter, and continue to exceed the NMWQCC standards.
- *MW-15:* The benzene concentration in this well decreased slightly from 33 to 28 µg/L, but remained above the NMWQCC standard. EDB concentration in this well was 0.13 µg/L (above the NMWQCC standard), an increase from last quarter's value of 0.087 µg/L. Benzene and EDB concentrations in this well were below laboratory reporting limits during the year following well installation in 2020, but have been consistently above the standards

in recent sampling events. DBS&A will continue to monitor concentration trends in this downgradient well.

- *MW-16:* A sample was not collected this quarter due to an inoperable pump.
- *RW-1:* A sample was not collected this quarter due to an inoperable pump.
- *RW-2:* A sample was not collected this quarter due to an inoperable pump.
- *RW-3:* The concentration of EDB fell below reporting limits. Benzene (7.6 µg/L) is the only COC that exceeded the NMWQCC standard, an increase from last quarter.
- *RW-4:* A sample was not collected this quarter due to an inoperable pump.

COC concentrations in wells MW-14 and MW-17 continued to be below laboratory reporting limits or the NMWQCC standards.

4. Conclusions and Recommendations

The DPE remediation system is already showing a positive impact in the source area, although equipment issues limited operation of the groundwater extraction network during the current reporting period. Measurable LNAPL was not present in BW-5 during this monitoring event, and contaminant concentrations are generally decreasing as anticipated. COC concentrations in wells within the heart of the plume are generally decreasing. It is likely that fresh water is being pulled from upgradient into the source area due to pumping by the remediation wells, resulting in containment of the plume in the capture zone of the remediation well network. Trends will be monitored closely to maximize mass removal from the subsurface. COC concentrations in system influent (raw) water fluctuated throughout the quarter as wells were taken offline for rehabilitation. Well screen and pump rehabilitation efforts improved the flow rates at most of the wells, while further corrective action to restore production from extraction wells is ongoing.

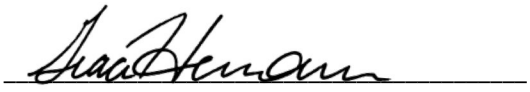
A total mass of over 111,000 pounds (18,500 gallons) of hydrocarbons has been removed from the site using the installed remediation equipment. Thermal oxidizer efficiency is improving with continued operation and has consistently averaged more than 99 percent since December 2023. The groundwater treatment system is also operating within design parameters. Both lighter hydrocarbons (e.g., benzene and TPH GRO) and heavier hydrocarbons (e.g., EDB and EDC) are being removed at an average of 95 to 99 percent. Trends in contaminant concentrations will be monitored closely so that equipment can be operated within manufacturer specifications.

DBS&A recommends performing the remaining quarterly groundwater monitoring events similar to the current event, with collection of two sets of water level data (during pumping and static conditions) and collection of remediation well groundwater samples with the system operating. This procedure provides the clearest way to evaluate individual well concentrations during ongoing system operation.

DBS&A recommends that the installed remediation system continue to operate in accordance with the approved work plan. O&M and evaluation of the remediation system will continue to be performed on a biweekly, quarterly, and annual basis (DBS&A, 2023). This evaluation will include a combination of field screening data and laboratory samples. The system will be operated and maintained for optimal efficiency and to maximize mass removal.

Statement of Familiarity

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature: 

Authorized Representative: Grace Herrmann, P.E.

Affiliation: Daniel B. Stephens & Associates, Inc.

Title: Project Engineer

Date: January 10, 2025

References

Daniel B. Stephens & Associates, Inc. (DBS&A). 2021. *Final remediation plan, Former Y Station State Lead Site, 721 Commerce Way, Clovis, New Mexico, Facility ID #53742, Release ID #4746, WPID #4134*. Prepared for New Mexico Environment Department Petroleum Storage Tank Bureau, Roswell, New Mexico. July 16, 2021. Revised August 12, 2021.

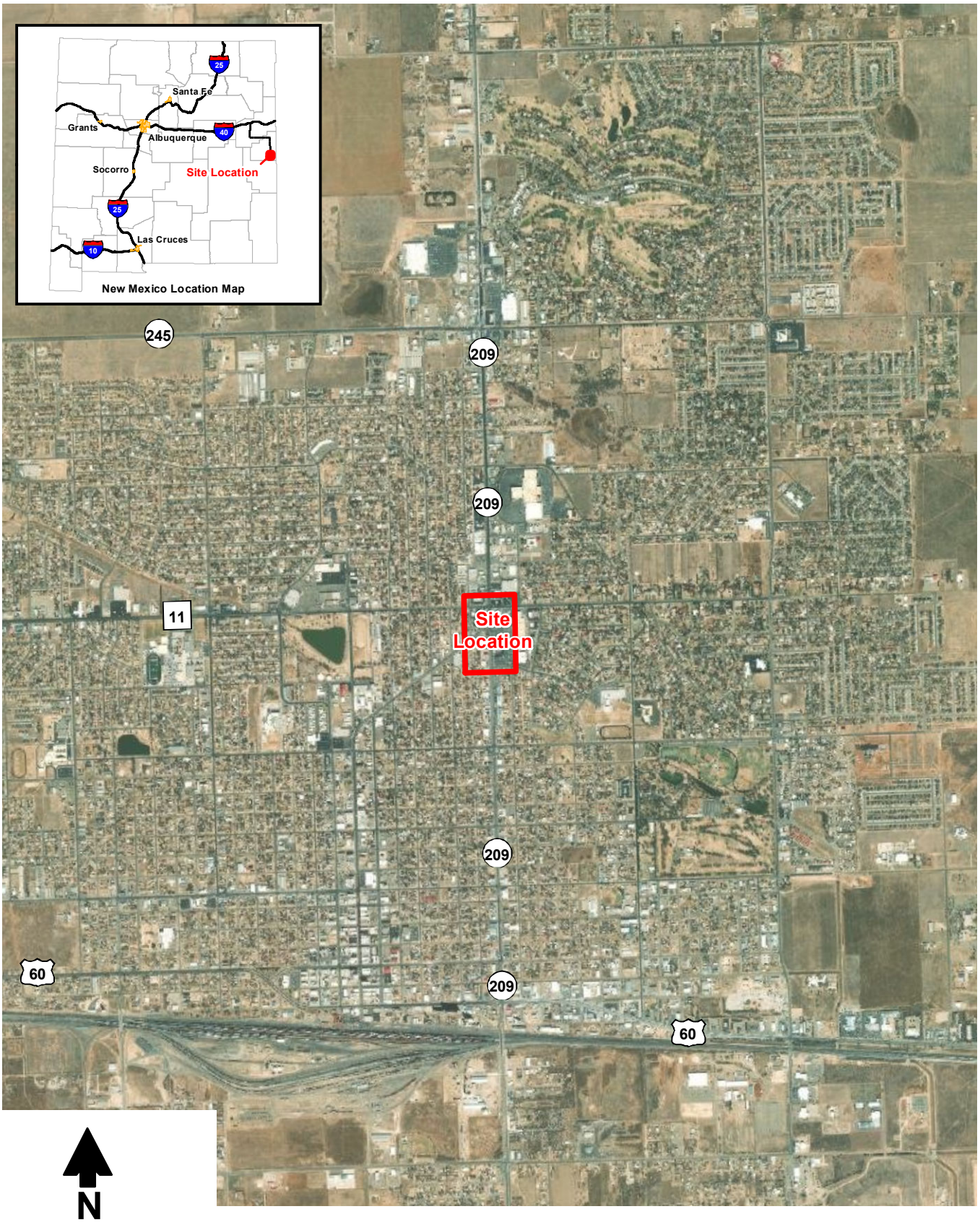
DBS&A. 2023. *Work plan for quarterly remediation system shakedown and startup, operation and maintenance, and groundwater monitoring, State Lead Remediation Services Contract (24-*

667-3200-27686), Former Y Station State Lead Site, Clovis, New Mexico, Facility #53742, Release ID #4746. Transmitted by letter from Thomas Golden and James A. Kelsey to Renee Romero, New Mexico Environment Department Petroleum Storage Tank Bureau, regarding Revised work plan for quarterly remediation system shakedown and startup, operation and maintenance, and groundwater monitoring, Former Y Station State Lead Site, 721 Commerce Way, Clovis, New Mexico, Facility #53742, Release ID #4746. September 20, 2023.

DBS&A. 2024. *Revised remediation system installation as-built report, Former Y Station State Lead Site, Clovis, New Mexico, Facility #53742, Release ID #4746*. Prepared for New Mexico Environment Department Petroleum Storage Tank Bureau, Roswell, New Mexico. May 2, 2022. Revised January 8, 2024.

New Mexico Environment Department (NMED). 2023. Letter from Lorena Goerger to Thomas Golden, DBS&A, regarding Phase 5 fixed-price workplan approval for the Former Y Station Site, 721 Commerce Way, Clovis, New Mexico, Facility #: 53742, Release ID #: 4746, WPID #: 4339. September 28, 2023.

Figures



S:\PROJECTS\DB18.1157_FORMER_Y_STATION\GIS\MXDS\F01_AREA_MAP.MXD

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3/17/2023 JN DB18.1157

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Area Map

Figure 1

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Explanation

- Single completion monitor well
- Nested monitor well
- Well plugged and abandoned

Figure 2

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FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Site Map

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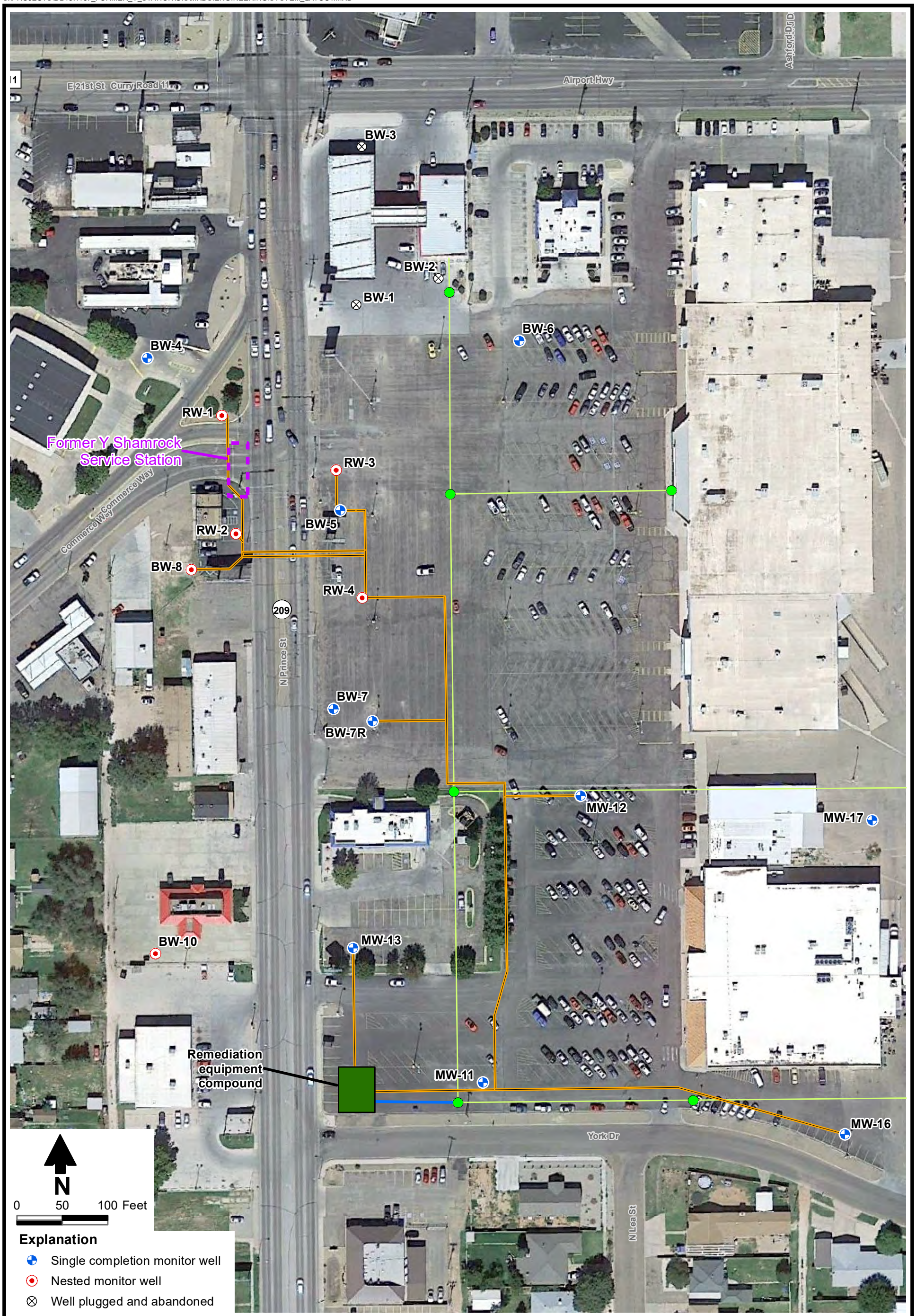


Figure 3

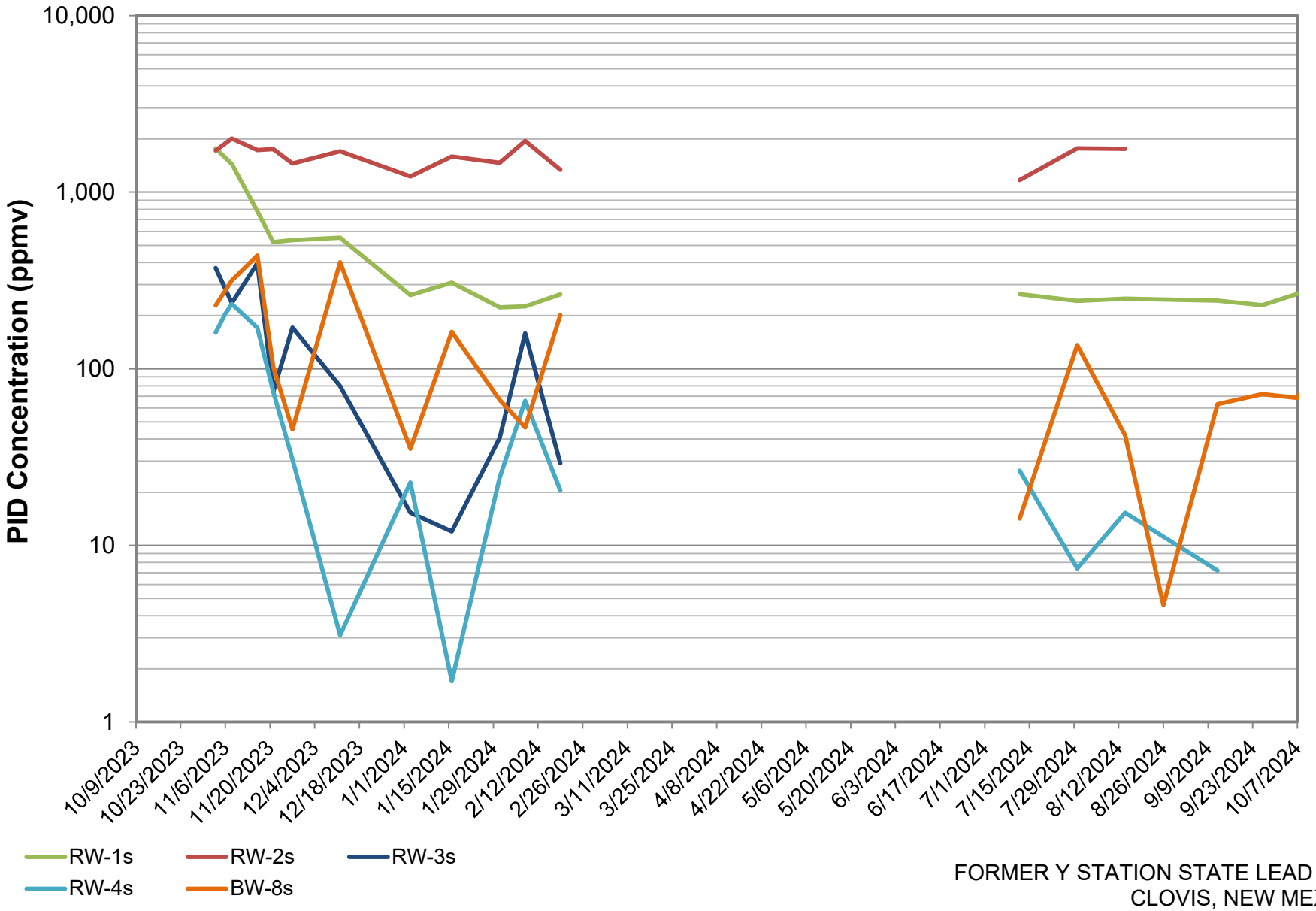
FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Remediation System Layout

DBS&A
a Geo-Logic Company

3/17/2023 JN DB18.1157

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FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

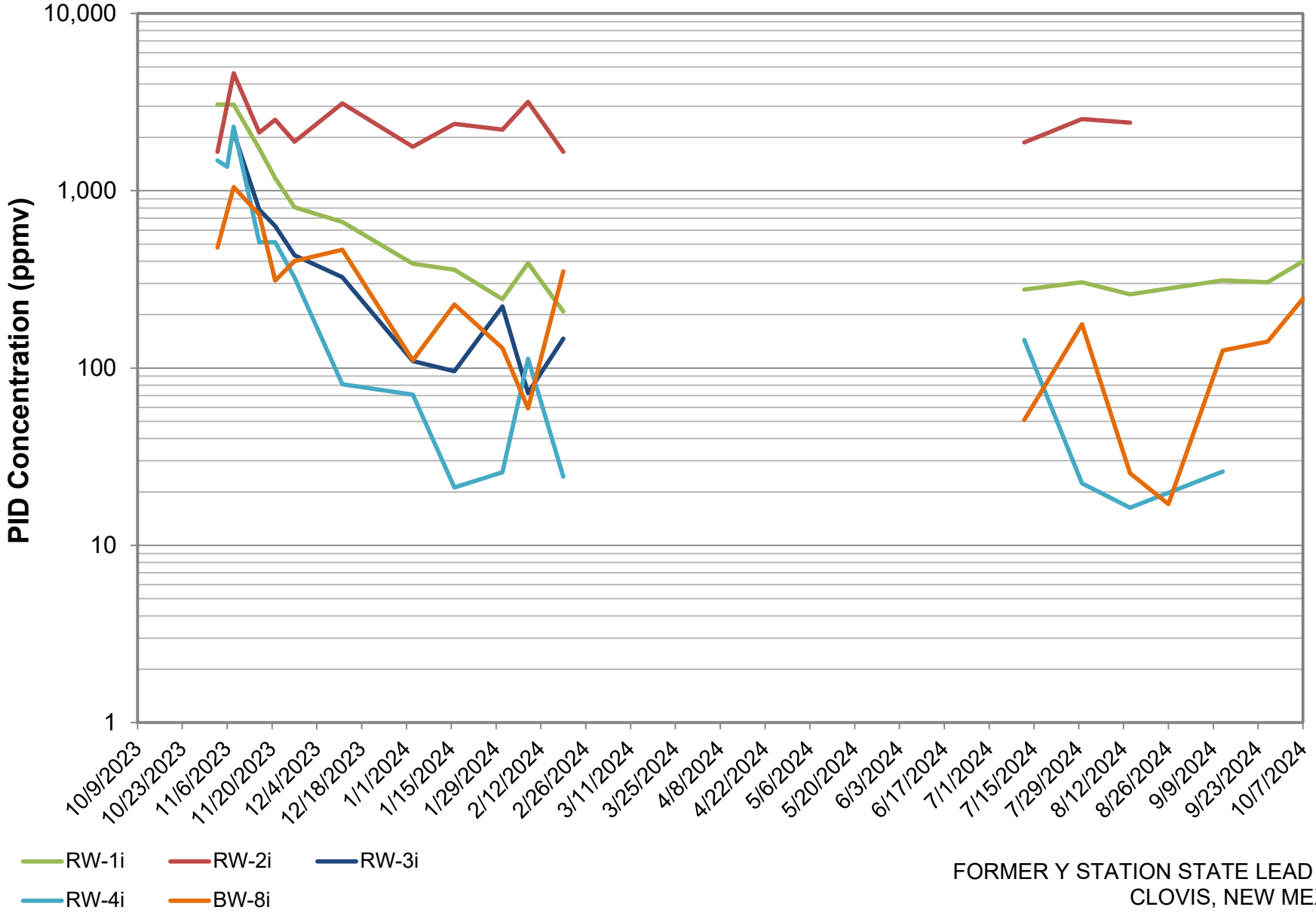
Field Screening PID Readings
Source Area Wells, Shallow Zone

Figure 4

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1/8/2025 DB18.1157

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FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

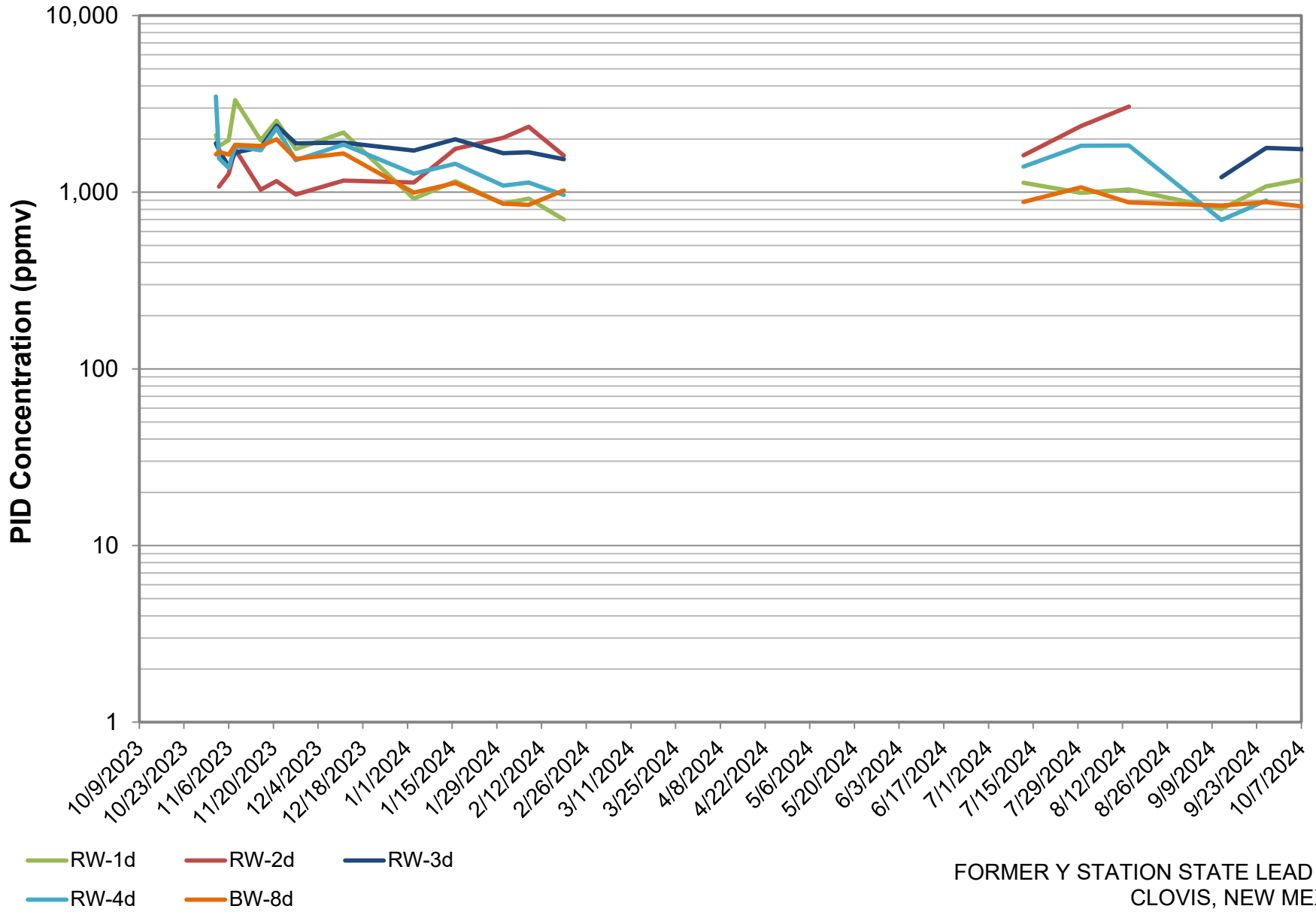
Field Screening PID Readings
Source Area Wells, Intermediate Zone

Figure 5

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FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

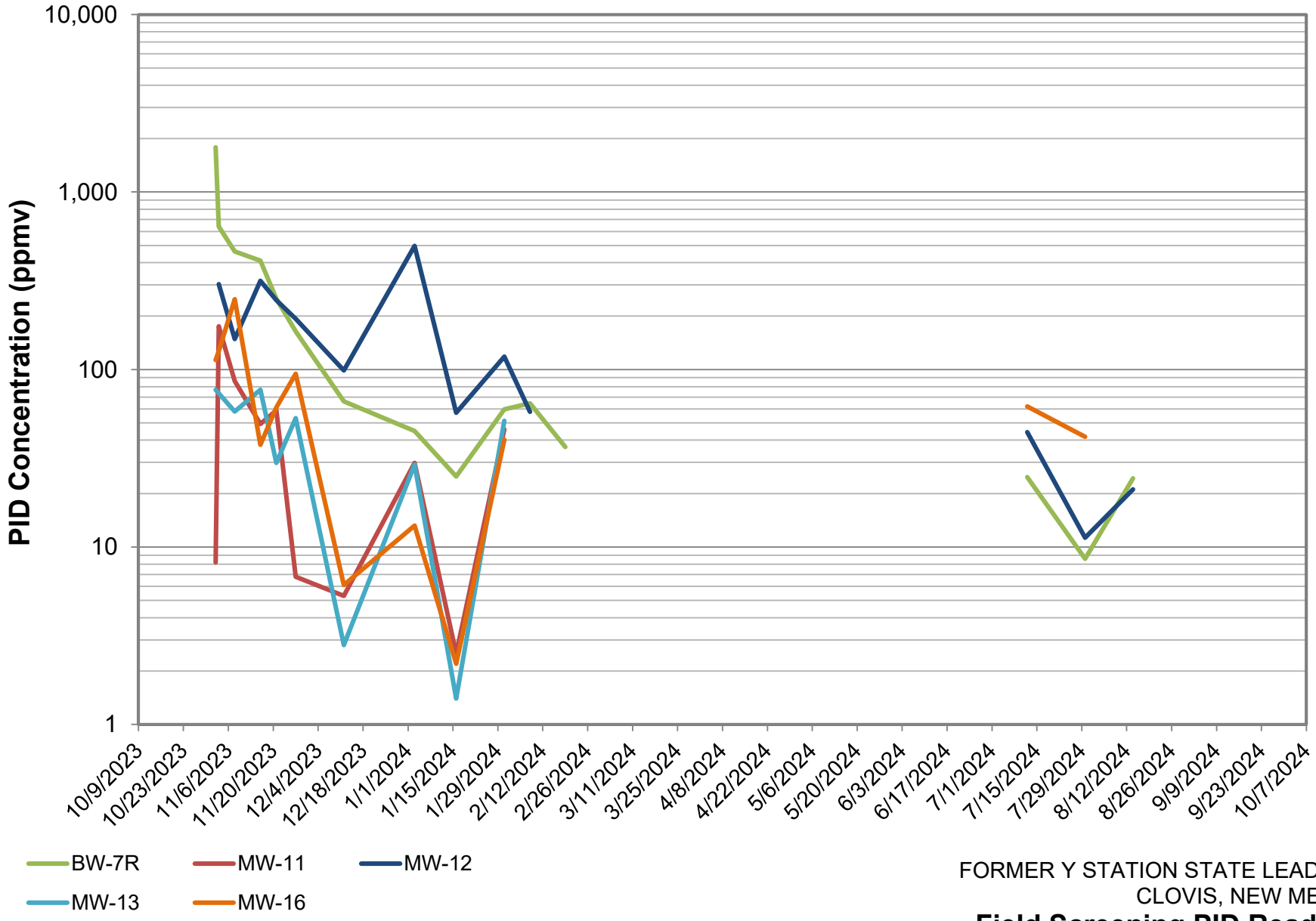
Field Screening PID Readings
Source Area Wells, Deep Zone

Figure 6

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1/8/2025 DB18.1157

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FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

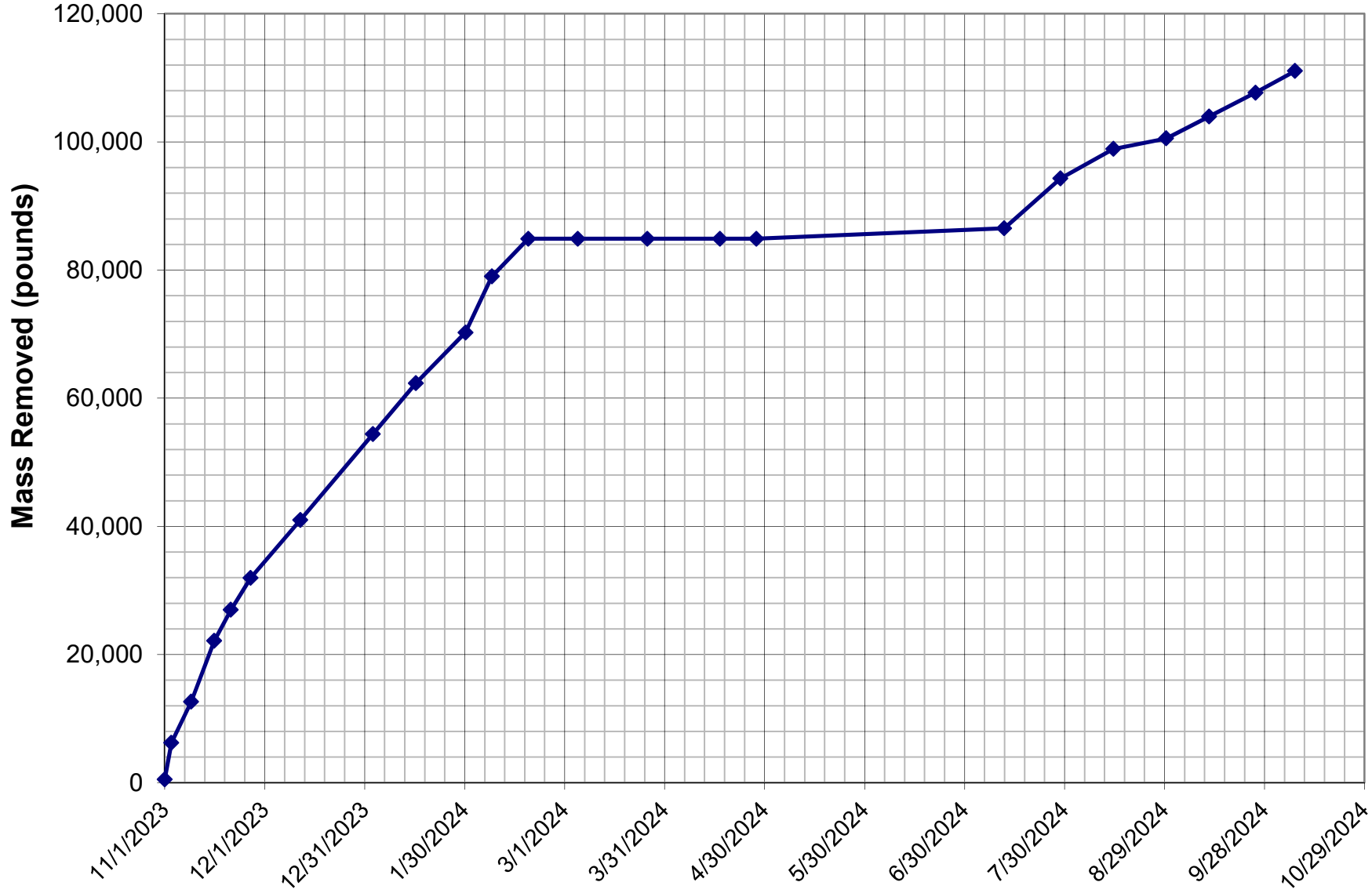
Field Screening PID Readings
Off-Site Wells

Figure 7

DBS&A
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1/6/2025 DB18.1157

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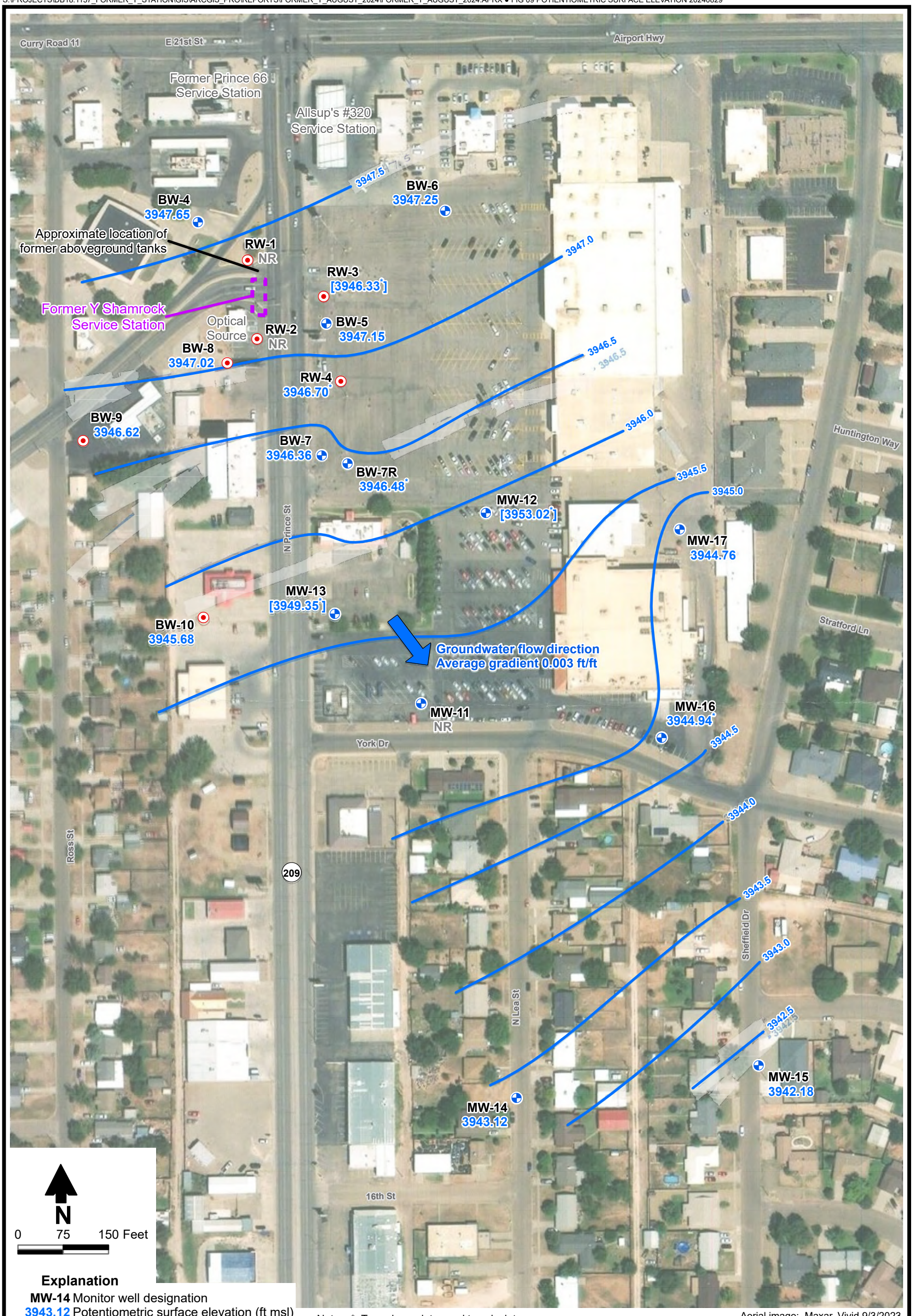
FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Cumulative Mass Removal

Figure 8

DBS&A
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1/6/2025 DB18.1157



Explanation

MW-14 Monitor well designation
3943.12 Potentiometric surface elevation (ft msl)
[3949.35*] Well not used for contouring
Single completion monitor well
Nested monitor well
Potentiometric surface elevation contour (ft msl)

Notes: * Transducer data used to calculate potentiometric surface elevation
** Depth to water measured while remediation system operating
NR = No reading

Aerial image: Maxar, Vivid 9/3/2023

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Potentiometric Surface Elevations August 29, 2024

Figure 9

DBS&A a Geo-Logic Company

1/2/2025 JN DB18.1157

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Aerial image: Maxar, Vivid 8/20/2023

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. [a] Laboratory reporting limit is equal to or greater than the applicable standard.
4. Samples on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

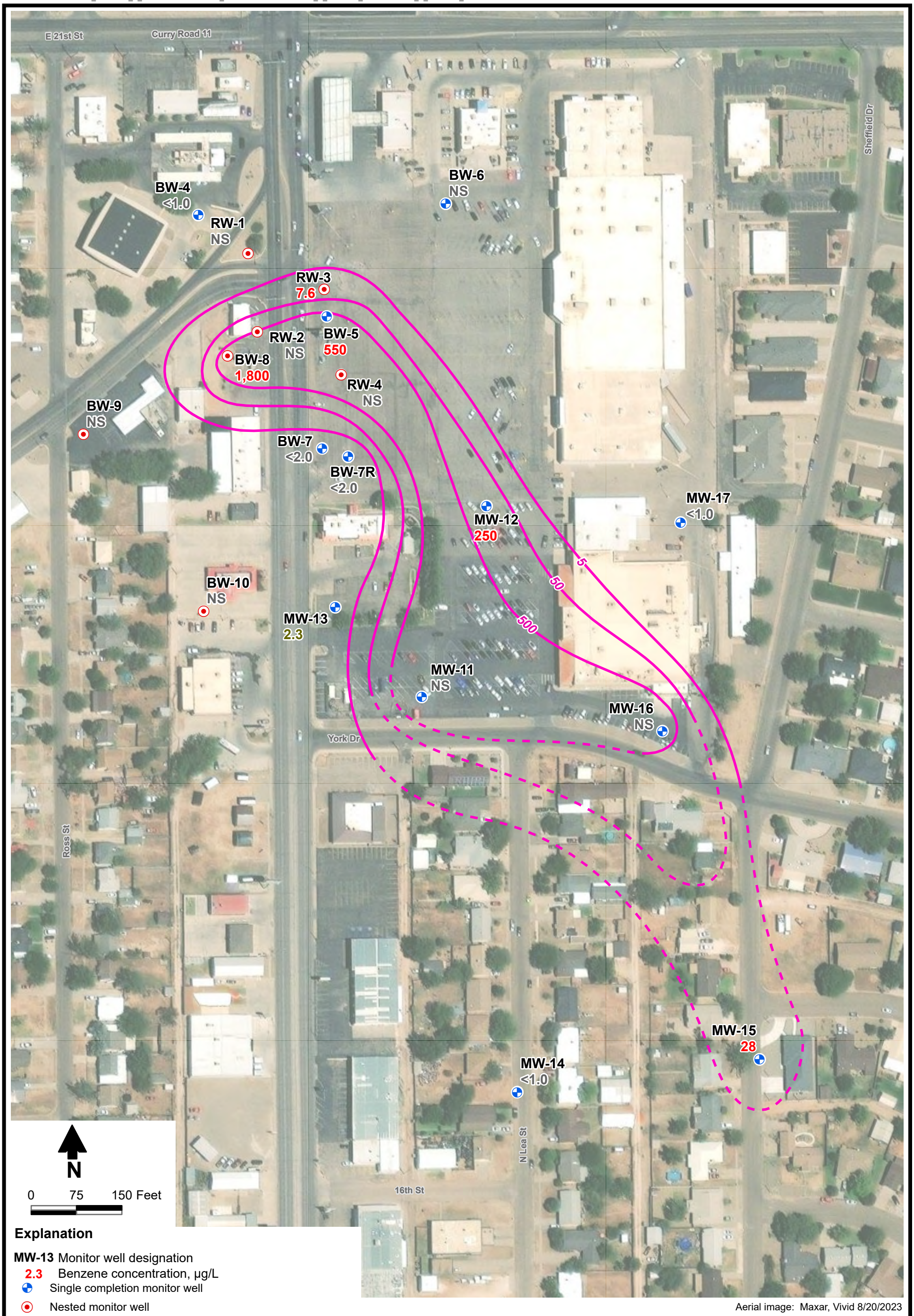
Distribution of Dissolved-Phase Contaminants, August 25-30, 2024

Figure 10

DBS&A a Geo-Logic Company

10/28/2024 JN DB18.1157

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Explanation

MW-13 Monitor well designation
2.3 Benzene concentration, µg/L
Single completion monitor well
Nested monitor well

Aerial image: Maxar, Vivid 8/20/2023

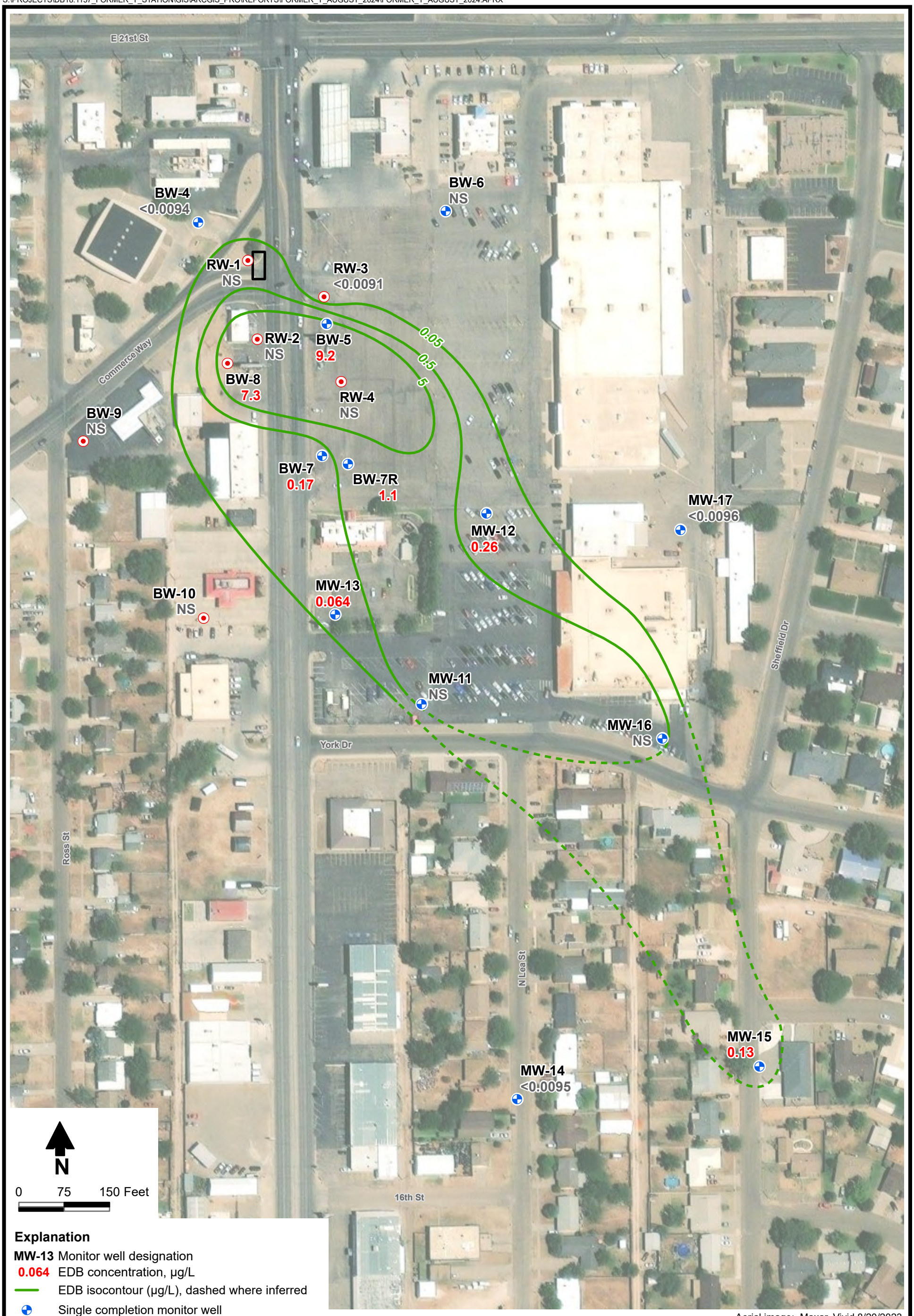
Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. Samples on this figure were collected using HydraSleeve sampling devices.
4. NS = Not sampled

DBS&A a Geo-Logic Company

10/28/2024 JN DB18.1157

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Benzene Isoconcentration Map
August 25-30, 2024

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Explanation

MW-13 Monitor well designation

0.064 EDB concentration, µg/L

EDB isocontour (µg/L), dashed where inferred

Single completion monitor well

Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. Samples on this figure were collected using HydraSleeve sampling devices.
4. NS = Not sampled

Aerial image: Maxar, Vivid 8/20/2023

Figure 12

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10/28/2024 JN DB18.1157

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

EDB Isoconcentration Map
August 25-30, 2024

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Explanation

MW-13 Monitor well designation

85 EDC concentration, µg/L

EDC isocontour (µg/L), dashed where inferred

Single completion monitor well

Nested monitor well

Aerial image: Maxar, Vivid 8/20/2023

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. Samples on this figure were collected using HydraSleeve sampling devices.
4. NS = Not sampled

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

EDC Isoconcentration Map
August 25-30, 2024

Figure 13

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10/28/2024 JN DB18.1157

Tables

Table 1. SVE System Manifold and Oxidizer Operation Data

Date	Oxidizer Hours	Time	SVE Line 1			SVE Line 2			SVE Line 3			Combined Influent			Oxidizer Effluent	DPE Blower	
			PID (ppmv)	Flow [a] (cfm)	Vac [b] (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac [b] (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac [b] (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac [b] (in. H_2O)	PID (ppmv)	Flow [c] (cfm)	Vac [d] (in. H_2O)
11/1/2023	NA	13:56	7,332	581	42	398	222	41	NA	NA	NA	15,000	902	42	3,193	NA	NA
11/2/2023	31	8:45	2,231	932	47	312	267	47	NA	NA	NA	1,718	761	48	1,374	NA	42
11/3/2023	58	15:08	1,505	675	44	261	288	44	NA	NA	NA	1,446	1,005	44	481	762	47
11/8/2023	175	7:10	1,804	NA	45	312	NA	44	70	NA	45	1,564	NA	45	399	750	50
11/16/2023	368	14:10	1,703	815	44	230	292	44	169	66	43	1,368	1,008	45	219	766	48
11/21/2023	485	13:47	1,885	843	46	195	304	46	9	64	45	1,523	1,031	47	171	762	53
11/27/2023	633	13:16	1,480	674	50	142	295	49	77	66	48	1,105	946	50	92	765	53
12/12/2023	963	8:00	1,525	1,460	53	78	311	50	56	72	51	825	950	51	46	775	56
1/3/2024	1,463	7:30	1,293	1,079	53	76	353	52	15	82	51	788	1,090	54	189	775	56
1/16/2024	1,756	14:00	538	1,351	57	31	485	48	25	127	48	702	1,400	55	54	781	57
1/31/2024	2,115	8:30	1,243	1,419	54	132	378	52	NR	NR	21	896	1,285	54	82	764	59
2/8/2024	2,301	8:40	1,329	1,290	59	119	287	59	Off			1,026	1,017	61	59	725	68
2/19/2024	2,568	13:00	776	1,633	66	64	301	65	Off			643	974	65	38	729	69
3/5/2024	SVE system off due to thermal oxidizer fault																
3/26/2024																	
4/17/2024																	
4/28/2024																	
7/12/2024	2,623	12:18	755	980	54	9	246	54	Off			394	1,045	54	27	777	48
7/29/2024	3,031	15:22	916	686	49	51	277	48	Off			750	1,004	49	56	754	51
8/14/2024	3,309	15:53	1,349	785	58	78	293	57	Off			948	962	59	73	755	57
8/26/2024	3,609	9:20	NR	717	66	NR	286	65	Off			NR	947	67	NR	727	63
9/12/2024	3,953	7:06	520	917	68	20	237	68	Off			399	961	68	44	739	65
9/26/2024	4,254	8:00	697	804	75	Off			Off			640	608	76	4	508	74
10/7/2024	4,541	7:10	621	468	71	Off			Off			562	468	71	48	513	74

[a] Vapor flow reading measured with a VelociCalc flow meter.
[b] Vacuum reading taken from the combined influent sample port using a digital manometer.
[c] Vapor flow reading taken from soil vapor extraction (SVE) system control panel, which converts flow from data collected by an averaging pitot tube.
[d] Vacuum reading taken from SVE system control panel.

PID = Photoionization detector
ppmv = Parts per million by volume
cfm = Cubic feet per minute
in. H_2O = Inches water column
NA = Not available
NR = No reading

Table 2. SVE System Wellhead Operation Data
Page 1 of 3

Date	Time	RW-1s			RW-1i			RW-1d			RW-2s			RW-2i			RW-2d			RW-3s			RW-3i		
		PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)
11/2/2023	NR	NR	NR	NR	NR	NR	NR	2,106	59	29	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11/3/2023	NR	1,773	NR	30	3,065	NR	30	1,829	55	30	1,719	NR	30	1,658	NR	29	1,075	31	29	373	NR	30	NR	NR	NR
11/6/2023	15:49	NR	NR	NR	NR	NR	NR	1,970	NR	31	NR	NR	NR	NR	NR	NR	1,269	NR	32	NR	NR	NR	NR	NR	NR
11/8/2023	7:26	1,445	NR	32	3,063	NR	32	3,321	NR	33	2,016	NR	37	4,609	NR	41	1,751	NR	45	236	NR	34	2,128	NR	34
11/16/2023	7:39	779	45	31	1,729	31	32	1,968	56	32	1,733	50	33	2,129	41	33	1,033	30	33	397	37	35	782	31	36
11/21/2023	15:45	522	53	29	1,177	33	29	2,542	53	29	1,755	49	34	2,517	42	33	1,155	29	33	74	37	35	632	32	35
11/27/2023	13:46	535	45	33	808	31	34	1,755	49	34	1,453	47	36	1,894	40	35	972	28	35	171	37	35	433	31	35
12/12/2023	8:00	553	45	34	666	29	34	2,180	41	34	1,703	42	35	3,108	34	34	1,164	27	34	80	36	36	325	28	36
1/3/2024	10:30	261	34	31	388	29	32	921	37	32	1,228	33	33	1,771	34	32	1,135	24	32	15	33	34	110	28	34
1/16/2024	8:00	308	55	29	359	31	30	1,152	51	30	1,593	46	33	2,383	5	31	1,757	32	31	12	34	32	96	12	32
1/31/2024	8:30	223	49	30	245	32	30	863	43	30	1,468	47	35	2,212	48	34	2,033	35	33	41	42	35	223	34	35
2/8/2024	8:40	226	58	37	390	35	38	921	60	37	1,951	52	39	3,166	46	37	2,344	33	37	159	41	43	72	34	42
2/19/2024	13:00	264	53	39	209	34	40	701	57	39	1,342	53	43	1,657	51	43	1,612	33	43	29	48	45	146	39	45
3/5/2024	SVE system off due to thermal oxidizer fault																								
3/26/2024																									
4/17/2024																									
4/28/2024																									
7/12/2024	14:50	265	49	31	277	34	31	1,131	52	31	1,170	53	34	1,874	48	32	1,617	32	33	36	35	27	55	27	27
7/30/2024	19:33	242	54	32	305	35	32	992	54	32	1,769	55	34	2,542	48	33	2,373	33	33	Off (valve closed)			Off (valve closed)		
8/14/2024	7:47	250	62	39	261	42	40	1,035	65	39	1,759	60	42	2,419	54	41	3,057	40	41	Off (valve closed)			Off (valve closed)		
8/26/2024	16:16	NR	68	42	NR	44	43	NR	NR	42	NR	76	46	NR	70	46	Off (valve closed)			Off (valve closed)			Off (valve closed)		
9/12/2024	10:30	243	65	45	312	43	45	805	68	45	Off (pump out of well)			Off (pump out of well)			Off (pump out of well)			35	53	48	17	43	48
9/26/2024	7:40	229	77	52	305	53	52	1,079	84	52	Off (pump out of well)			Off (pump out of well)			Off (pump out of well)			Off (valve closed)			Off (valve closed)		
10/7/2024	7:10	NR	67	49	NR	49	50	NR	80	49	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		

Notes are provided at the end of the table.

Table 2. SVE System Wellhead Operation Data
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Date	Time	RW-3d			RW-4s			RW-4i			RW-4d			BW-8s			BW-8i			BW-8d			BW-7R		
		PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)
11/2/2023	NR	1,892	39	29	NR	NR	NR	NR	NR	NR	3,479	48	30	NR	NR	NR	NR	NR	NR	1,638	47	30	1,786	66	31
11/3/2023	NR	1,730	46	23	160	NR	35	1,483	NR	34	1,552	11	9	229	NR	27	479	NR	28	1,694	55	34	638	63	34
11/6/2023	15:49	1,398	NR	33	205	NR	37	1,365	NR	36	1,376	NR	34	NR	NR	NR	NR	NR	NR	1,631	NR	31	NR	NR	NR
11/8/2023	7:26	1,680	NR	34	232	NR	41	2,297	NR	39	1,819	NR	38	316	NR	33	1,051	NR	32	1,854	NR	33	463	NR	33
11/16/2023	7:39	1,792	40	36	171	43	36	513	48	37	1,727	46	36	438	60	32	736	41	33	1,829	39	33	411	60	33
11/21/2023	15:45	2,384	40	35	75	41	38	512	50	37	2,303	49	36	103	65	32	312	42	32	1,995	39	32	250	60	34
11/27/2023	13:46	1,891	40	37	31	39	40	325	46	39	1,517	45	38	45	62	33	401	39	34	1,545	37	34	164	60	34
12/12/2023	8:00	1,911	34	36	3	45	40	81	41	40	1,861	43	40	402	57	33	466	38	33	1,660	36	33	66	50	36
1/3/2024	10:30	1,722	37	34	23	45	39	71	41	38	1,274	43	38	35	53	30	111	37	31	994	36	31	45	43	31
1/16/2024	8:00	1,994	42	32	2	53	37	21	48	36	1,448	49	36	162	59	29	228	41	29	1,129	41	29	25	58	29
1/31/2024	8:30	1,662	44	35	24	59	39	26	51	38	1,089	54	38	67	64	31	129	42	31	862	41	31	60	60	32
2/8/2024	8:40	1,682	46	42	66	62	47	113	54	44	1,136	53	44	47	65	37	59	43	37	847	44	37	65	83	48
2/19/2024	13:00	1,539	50	44	21	55	48	24	55	47	966	63	48	201	45	40	351	45	41	1,024	46	41	37	88	48
3/5/2024	SVE system off due to thermal oxidizer fault																								
3/26/2024																									
4/17/2024																									
4/28/2024																									
7/12/2024	14:50	138	NR	26	27	57	36	144	50	35	1,396	49	35	14	61	32	51	43	32	880	53	32	25	70	36
7/30/2024	19:33	Off (valve closed)			7	56	35	22	46	35	1,830	44	35	136	62	32	177	45	32	1,066	51	32	9	68	35
8/14/2024	7:47	Off (valve closed)			15	71	48	16	59	46	1841	59	46	42	72	39	26	52	39	875	59	39	24	80	43
8/26/2024	16:16	Off (valve closed)			NR	302	52	NR	241	51	NR	249	51	5	85	46	17	63	46	>5,000	70	46	NR	88	47
9/12/2024	10:30	1,215	64	48	7	74	50	26	62	48	695	57	48	63	77	44	126	58	44	842	68	44	Off (valve closed)		
9/26/2024	7:40	1,780	89	62	Off (valve closed)			Off (valve closed)			898	86	64	72	90	51	141	67	51	878	84	51	Off (valve closed)		
10/7/2024	7:10	NR	87	58	Off (valve closed)			Off (valve closed)			NR	92	63	68	84	48	246	62	48	833	72	48	Off (valve closed)		

Notes are provided at the end of the table.

Table 2. SVE System Wellhead Operation Data
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Date	Time	MW-11			MW-12			MW-13			MW-16		
		PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)
11/2/2023	NR	8	67	32	NR	NR	NR	77	3	1	113	108	35
11/3/2023	NR	175	64	38	303	64	34	NR	NR	NR	127	98	34
11/6/2023	15:49	NR	NR	35	NR	NR	NR	NR	NR	33	NR	NR	33
11/8/2023	7:26	86	NR	39	148	NR	7	58	NR	36	249	NR	35
11/16/2023	7:39	49	64	35	316	64	32	77	65	33	38	102	31
11/21/2023	15:45	59	60	37	246	64	33	30	63	35	61	96	33
11/27/2023	13:46	7	59	39	193	64	35	53	64	36	95	96	36
12/12/2023	8:00	5	66	41	99	58	38	3	55	36	6	93	36
1/3/2024	10:30	30	53	41	497	60	35	29	53	36	13	86	36
1/16/2024	8:00	3	69	40	57	70	33	1	65	34	2	115	34
1/31/2024	8:30	46	69	41	118	76	37	51	0	2	40	109	36
2/8/2024	8:40	Off (valve closed)			58	92	49	Off (valve closed)			Off (valve closed)		
2/19/2024	13:00	Off (valve closed)			NR	NR	NR	Off (valve closed)			Off (valve closed)		
3/5/2024	SVE system off due to thermal oxidizer fault												
3/26/2024													
4/17/2024													
4/28/2024													
7/12/2024	14:50	Off (valve closed)			44	73	37	Off (valve closed)			62	105	36
7/30/2024	19:33	Off (valve closed)			11	71	36	Off (valve closed)			42	115	35
8/14/2024	7:47	Off (valve closed)			21	83	44	Off (valve closed)			NR		
8/26/2024	16:16	Off (valve closed)			NR	347	47	Off (valve closed)			NR	499	48
9/12/2024	10:30	Off (valve closed)			NR	NR	NR	Off (valve closed)			37	NR	51
9/26/2024	7:40	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
10/7/2024	7:10	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		

[a] Vapor flow reading measured with a VelociCalc flow meter.

SVE = Soil vapor extraction
PID = Photoionization detector
ppmv = Parts per million by volume
cfm = Cubic feet per minute
in. H_2O = Inches water column
NR = Not reading

Table 3. Water Flow Meter Readings for Individual Wells and Treated Discharge
Page 1 of 4

Date	Time	RW-1		RW-2		RW-3		RW-4		BW-7R		MW-11		MW-12	
		Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]
OSE POD Number		*CC-02536 POD1*		*CC-02536 POD2*		*CC-02536 POD3*		*CC-02536 POD4*		*CC-02536 POD5*		*CC-02536 POD6*		*CC-02536 POD7*	
Meter Serial Number		*20 006378 NL*		*20 006383 NL*		*20 006383 NL*		*20 006382 NL*		*20 006376 NL*		*20 006379 NL*		*20 006585 NL*	
11/1/2023	—	Remediation system started													
11/3/2023	11:10	4,836	22.8	NA	23.4	12,760	29.9	11,973	22.2	5,132	8.6	5,483	23.0	192	26.5
11/3/2023	17:50	4,897	24.7	NA	23.6	14,144	30.1	13,271	22.5	5,240	27.5	6,134	23.2	192	26.6
11/6/2023	16:00	10,769	19.5	NA	24.4	33,072	30.1	18,279	20.6	5,240	27.6	15,491	22.7	192	26.5
11/8/2023	07:10	14,300	20.9	3,900	24.0	44,800	30.1	43,100	17.7	5,100	27.5	20,600	22.7	200	26.4
11/16/2023	08:34	25,470	21.9	9,000	26.6	91,200	30.3	98,200	20.8	5,100	22.1	43,320	22.9	187	26.7
11/21/2023	13:47	33,950	20.6	10,788	26.3	126,724	30.0	98,200	20.1	12,334	21.9	62,089	22.0	192	26.3
11/27/2023	13:16	48,290	20.3	12,393	25.8	165,275	30.5	99,132	19.0	14,800	19.4	85,413	22.1	200	26.4
11/30/2023	16:09	54,372	NA	13,904	NA	181,562	NA	NR	NA	18,153	NA	94,840	NA	7,123	NA
12/12/2023	12:38	81,199	15.0	17,932	26.6	248,489	31.3	99,939	24.1	25,628	24.6	127,699	22.5	156,674	23.3
12/31/2023	10:02	133,617	14.5	18,517	25.1	336,611	32.8	183,938	28.4	33,091	26.3	175,035	24.5	106,166	24.5
1/3/2024	10:30	142,450	14.8	18,519	25.1	345,877	33.2	192,448	28.5	34,042	26.3	181,571	25.0	114,510	24.6
1/16/2024	12:30	167,900	16.4	27,500	25.9	379,000	32.8	242,480	26.2	50,900	24.2	205,100	25.6	157,300	22.8
1/31/2024	08:27	194,844	14.4	43,665	25.9	384,143	33.4	305,807	27.4	71,407	20.8	220,760	26.7	197,652	24.0
1/31/2024	15:40	195,413	14.4	44,012	25.8	384,143	33.4	307,094	27.3	71,786	20.8	221,050	26.7	198,282	24.0
2/8/2024	08:40	211,117	12.1	52,968	26.9	384,197	33.4	337,494	28.3	81,024	22.6	227,235	25.9	210,897	25.0
2/19/2024	13:00	235,686	10.3	69,679	42.8	393,974	33.9	363,939	29.3	91,615	27.8	238,678	25.4	233,831	24.3
2/21/2024	07:00	237,460	15.3	69,905	22.7	394,889	34.8	368,428	29.1	92,638	21.2	240,227	25.4	235,580	24.7
2/29/2024	17:30	252,793	NR	75,128	NR	402,886	NR	391,988	NR	102,965	NR	248,485	NR	248,798	NR
3/5/2024	15:00	260,565	9.0	80,874	50.1	408,305	33.9	402,619	29.0	108,118	22.9	248,485	29.8	254,856	24.8
3/24/2024	10:00	291,302	NR	81,136	NR	422,501	NR	438,280	NR	113,783	NR	248,492	NR	272,667	NR
3/25/2024	10:00	292,910	NR	81,136	NR	422,501	NR	440,844	NR	113,783	NR	248,492	NR	273,521	NR
3/26/2024	08:00	294,511	8.7	81,136	28.6	422,579	34.3	443,438	31.6	113,783	23.8	248,492	30.1	274,530	24.5
3/31/2024	10:45	295,988	NR	81,142	NR	423,420	NR	444,681	NR	113,783	NR	248,539	NR	275,840	NR
4/8/2024	10:00	303,198	NR	81,143	NR	423,540	NR	474,054	NR	113,834	NR	249,057	NR	295,708	NR
4/9/2024	10:00	304,513	NR	81,143	NR	423,540	NR	480,553	NR	113,834	NR	249,057	NR	299,502	NR
4/17/2024	11:20	314,353	7.7	81,143	28.9	423,540	31.8	527,098	22.7	113,834	22.6	249,057	NR	322,605	23.4
4/28/2024	07:30	314,506	25.3	81,143	28.7	423,540	31.7	564,930	25.7	113,834	27.7	249,058	NR	345,816	23.8
4/30/2024	09:45	314,506	NR	81,190	NR	423,540	NR	565,803	NR	113,834	NR	249,057	NR	346,461	NR
5/31/2024	09:50	314,937	NR	81,373	NR	423,540	NR	565,803	NR	113,834	NR	249,057	NR	347,490	NR

Notes are provided at the end of the table.

Table 3. Water Flow Meter Readings for Individual Wells and Treated Discharge
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Date	Time	RW-1		RW-2		RW-3		RW-4		BW-7R		MW-11		MW-12	
		Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]
OSE POD Number		*CC-02536 POD1*		*CC-02536 POD2*		*CC-02536 POD3*		*CC-02536 POD4*		*CC-02536 POD5*		*CC-02536 POD6*		*CC-02536 POD7*	
Meter Serial Number		*20 006378 NL*		*20 006383 NL*		*20 006383 NL*		*20 006382 NL*		*20 006376 NL*		*20 006379 NL*		*20 006585 NL*	
6/17/2024	10:00	314,937	25.4	81,373	26	423,547	31.8	565,803	33.9	113,834	28	249,057	NR	347,490	27
6/30/2024	10:00	314,937	NR	81,373	NR	423,547	NR	565,803	NR	113,834	NR	249,057	NR	347,490	NR
7/12/2024	10:01	315,316	NR	81,393	25.8	423,547	NR	565,803	19.7	115,131	9.3	249,057	NR	347,620	26.1
7/13/2024	10:01	315,470	NR	81,394	25.6	423,547	NR	565,803	19.3	116,848	8.5	249,058	NR	347,651	26.1
7/14/2024	10:01	315,470	NR	81,394	25.7	423,547	NR	565,803	23.7	118,518	14.7	249,058	NR	347,652	26.1
7/15/2024	10:01	315,470	NR	81,394	25.7	423,547	NR	566,580	23.8	120,205	12.0	249,058	NR	347,654	26.1
7/16/2024	10:01	315,470	NR	81,394	25.7	423,547	NR	570,673	23.3	121,894	6.1	249,058	NR	347,655	26.1
7/17/2024	10:01	315,470	NR	81,399	25.6	423,547	NR	574,754	23.9	123,575	6.4	249,058	NR	347,656	26.0
7/30/2024	10:01	351,470	NR	81,402	25.9	423,547	NR	606,055	33.5	145,061	6.5	249,058	NR	347,664	26.0
7/31/2024	09:07	351,470	NR	81,402	25.9	423,547	NR	606,055	33.6	146,614	6.7	249,058	NR	347,664	26.1
8/14/2024	08:03	351,470	NR	81,402	25.9	423,547	NR	606,055	33.5	168,515	7.3	249,059	NR	352,274	17.7
8/26/2024	11:00	315,470	NR	81,402	25.9	423,547	NR	606,055	33.5	188,038	6.6	249,059	NR	364,186	26.0
8/31/2024	11:00	315,470	NR	81,404	NR	423,561	NR	606,055	33.4	190,522	13.3	252,090	NR	364,186	11.3
9/25/2024	12:45	315,470	NR	81,404	NR	423,629	NR	606,055	33.5	221,156	14.6	268,168	NR	470,118	25.5
9/30/2024	11:00	315,470	NR	81,404	NR	423,629	NR	606,055	NR	226,364	NR	268,168	NR	470,616	NR
10/7/2024	13:26	315,470	NR	81,404	NR	423,629	NR	606,055	NR	234,011	6.8	268,168	NR	470,616	31.2

Notes are provided at the end of the table.

Table 3. Water Flow Meter Readings for Individual Wells and Treated Discharge
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Date	Time	MW-13		MW-16		Treated Discharge
		Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)
OSE POD Number		*CC-02536 POD8*		*CC-02548 POD3*		*NA*
Meter Serial Number		*20 004229 NL*		*20 006384 NL*		*20 004230 NL*
11/1/2023	—	Remediation system started				
11/3/2023	11:10	5,365	19.5	5,700	28.9	38,400
11/3/2023	17:50	5,890	19.5	6,354	29.1	42,000
11/6/2023	16:00	14,722	20.3	15,097	29.1	95,400
11/8/2023	07:10	18,700	21.5	18,800	29.7	119,800
11/16/2023	08:34	23,970	19.8	36,130	22.0	221,900
11/21/2023	13:47	40,991	19.1	48,639	20.9	300,900
11/27/2023	13:16	58,457	20.7	63,787	21.5	385,800
11/30/2023	16:09	61,070	NA	69,651	NA	425,300
12/12/2023	12:38	73,858	21.4	91,384	21.0	566,000
12/31/2023	10:02	96,308	21.3	110,067	20.9	755,800
1/3/2024	10:30	99,730	22.0	110,825	21.5	780,000
1/16/2024	12:30	109,000	22.0	111,000	20.7	891,200
1/31/2024	08:27	117,379	22.3	111,415	21.3	1,024,824
1/31/2024	15:40	117,504	22.3	111,418	20.7	1,027,800
2/8/2024	08:40	121,031	22.3	111,464	21.5	1,084,400
2/19/2024	13:00	122,485	22.2	112,054	20.2	1,131,900
2/21/2024	07:00	122,496	22.7	112,054	20.5	NR
2/29/2024	17:30	122,496	NR	112,417	NR	1,203,600
3/5/2024	15:00	122,496	22.6	122,417	20.8	1,226,300
3/24/2024	10:00	126,744	NR	112,417	NR	1,306,800
3/25/2024	10:00	127,551	NR	112,417	NR	1,310,700
3/26/2024	08:00	128,349	21.6	112,417	21.1	1,314,700
3/31/2024	10:45	128,502	NR	112,417	NR	1,318,500
4/8/2024	10:00	139,578	NR	112,417	NR	1,368,900
4/9/2024	10:00	141,542	NR	112,417	NR	1,378,600
4/17/2024	11:20	152,884	21.3	112,417	21.1	1,439,700
4/28/2024	07:30	166,807	21.3	112,417	20.6	1,490,100
4/30/2024	09:45	167,173	NR	112,417	NR	1,491,600
5/31/2024	09:50	167,173	NR	112,417	NR	1,493,600

Notes are provided at the end of the table.

Table 3. Water Flow Meter Readings for Individual Wells and Treated Discharge
Page 4 of 4

Date	Time	MW-13		MW-16		Treated Discharge
		Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)	Transducer (feet) [b]	Totalized Flow [a] (gallons)
OSE POD Number		*CC-02536 POD8*		*CC-02548 POD3*		*NA*
Meter Serial Number		*20 004229 NL*		*20 006384 NL*		*20 004230 NL*
6/17/2024	10:00	167,173	22	112,417	26	1,493,600
6/30/2024	10:00	167,173	NR	112,417	NR	1,493,600
7/12/2024	10:01	168,787	19.1	112,417	28.1	1,503,000
7/13/2024	10:01	171,043	18.7	112,417	28.4	1,510,000
7/14/2024	10:01	173,309	18.7	112,417	28.7	1,516,300
7/15/2024	10:01	175,591	18.8	112,417	27.9	1,522,200
7/16/2024	10:01	177,869	18.7	112,417	28.5	1,528,300
7/17/2024	10:01	180,159	18.6	112,417	26.2	1,534,500
7/30/2024	10:01	200,492	20.6	112,417	26.3	1,587,100
7/31/2024	09:07	201,561	20.5	112,417	26.3	1,589,100
8/14/2024	08:03	212,865	20.9	112,417	26.3	1,620,400
8/26/2024	11:00	219,180	21.0	112,417	26.4	1,652,400
8/31/2024	11:00	220,680	21.3	112,417	26.7	1,674,900
9/25/2024	12:45	232,669	21.7	112,417	26.2	1,804,700
9/30/2024	11:00	240,473	NR	112,417	NR	1,810,600
10/7/2024	13:26	250,650	20	112,417	NR	1,828,500

[a] Flow meters are all Pulsafeeder Multijet Model PME.

[b] Height of water column above the installed pressure transducer.

OSE = Office of the State Engineer
POD = Point of diversion
NA = Not available

Table 4. Analytical Organic Chemistry Data for the Remediation System, Air
Page 1 of 3

Sampling Point	Date Sampled	Concentration [a] (µg/L)						
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	TPH GRO
DTA Effluent	11/3/2023	0.27	1.3	0.27	1.9	3.7	<0.25	18
	11/9/2023 [b]	374	547	33	144	1,098	<1.00	16,600
	11/16/2023	19	19	2.3	17	57.3	<0.25	180
	11/28/2023	16	15	1.6	17	49.6	<0.25	160
	2/19/2024	1.5	1	0.20	1.7	4.4	<0.25	17
	3/26/2024	0.13	<0.10	<0.10	<0.20	0.13	NR	<5.0
	7/29/2024	<0.10	<0.10	<0.10	<0.20	<0.50	<0.25	<5.0
	8/26/2024	<0.10	0.76	0.23	1.6	2.59	NR	14
	9/26/2024	<0.10	0.19	<0.10	0.51	0.70	NR	<5.0
SVE Combined Influent	11/1/2023	450	880	66	320	1,716	<25	36,000
	11/3/2023	490	1,000	80	410	1,980	<25	34,000
	11/9/2023	314	372	10.2	34.4	731	<1.00	13,800
	11/16/2023	330	740	57	330	1,457	<25	16,000
	11/21/2023	240	540	44	250	1,074	<25	12,000
	11/28/2023	170	450	37	220	877	<25	9,800
	12/12/2023	130	320	23	120	593	<25	7,800
	1/3/2024	99	340	29	150	618	<25	7,700
	1/16/2024	86	330	30	150	596	<25	7,700
	1/31/2024	64	260	23	110	457	<25	6,500
	2/8/2024	150	630	56	280	1,116	<25	14,000

Notes are provided at the end of the table.

Table 4. Analytical Organic Chemistry Data for the Remediation System, Air
Page 2 of 3

Sampling Point	Date Sampled	Concentration [a] (µg/L)						
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	TPH GRO
SVE Combined Influent (cont.)	2/19/2024	68	320	33	160	581	<12	6,700
	3/5/2024	SVE system off due to thermal oxidizer fault						
	3/26/2024							
	4/17/2024							
	4/28/2024							
	7/12/2024	65	250	22	110	447	<13	7,200
	7/29/2024	56	240	23	110	429	<13	5,600
	8/14/2024	38	160	16	77	291	<13	4,700
	8/26/2024	20	68	9.3	36	133	<13	1,800
	9/12/2024	21	130	18	87	256	<13	3,100
	9/26/2024	33	230	34	160	457	<13	5,200
	10/8/2024 [b]	0.067	0.5	0.068	0.18	0.82	<0.25	15
Oxidizer Effluent	11/1/2023	150	160	15	47	372	<12	6,500
	11/3/2023	190	230	23	80	523	<12	4,400
	11/9/2023	99	340	29	126	594	<1.00	2,700
	11/16/2023	44	40	3.9	18	106	<1.2	420
	11/21/2023	24	15	1.2	4.1	44	<1.2	160
	11/28/2023	17	20	2.8	17	57	<1.2	220
	12/12/2023	8.3	5.0	0.36	1.2	14.86	<0.25	55
	1/3/2024	6.0	3.6	0.24	0.80	10.6	<0.25	36

Notes are provided at the end of the table.

Table 4. Analytical Organic Chemistry Data for the Remediation System, Air
Page 3 of 3

Sampling Point	Date Sampled	Concentration [a] (µg/L)						
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	TPH GRO
Oxidizer Effluent (cont.)	1/16/2024	6.8	6.3	0.48	2.0	15.58	<0.20	74
	1/31/2024	4.0	7.0	1	6.00	18.00	<0.20	76
	2/8/2024	3.7	9.4	2.0	12	27.1	<0.25	110
	2/19/2024	2.9	2.6	0.32	1.9	7.72	<0.25	27
	3/5/2024	SVE system off due to thermal oxidizer fault						
	3/26/2024							
	4/17/2024							
	4/28/2024							
	7/12/2024	3.5	1.7	0.12	0.39	5.7	<0.25	21
	7/29/2024	3.4	2.0	0.15	0.56	6.1	<0.25	21
	8/14/2024	2.5	3.0	0.43	2.3	8.2	<0.25	38
	8/26/2024	1.1	1.4	0.23	1.4	4.1	<0.25	19
	9/12/2024	0.30	0.63	0.17	1.0	2.1	<0.25	11
	9/26/2024	0.41	0.47	0.15	0.94	2.0	<0.25	8
	10/8/2024	0.56	5.8	0.64	2.4	9.4	<0.25	64

[a] Analyzed using U.S. Environmental Protection Agency (EPA) methods 8021B for volatile organic compounds (VOCs) and 8015B for total petroleum hydrocarbons (TPH).

[b] Data not believed to be representative of actual field conditions based on other sample results.

µg/L = Micrograms per liter
BTEX = Benzene, toluene, ethylbenzene, and total xylenes
MTBE = Methyl tertiary-butyl ether
GRO = Gasoline-range organics

Table 5. Analytical Organic Chemistry Data for the Remediation System, Water
Page 1 of 3

Well Name	Date Sampled	Concentration [a] (µg/L)									
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB [b]	EDC	PAHs	TPH GRO
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*	*NA*
GW Combined Influent	11/1/2023	**640**	260	30	170	1,100	<1.0	**2.3**	**55**	8.2	3,800
	11/3/2023	**1,100**	750	71	440	2,361	<1.0	**14**	**97**	**33.2**	6,900
	11/9/2023	**1,300**	**1,020**	48	523	2,891	<13.9	<10 [c]	**115**	<13.5 [d]	6,090
	11/16/2023	**1,400**	**1,000**	70	590	3,060	<20	**21**	**180**	<200 [c]	7,800
	11/22/2023	**1,200**	840	58	560	2,658	<2.0	**15**	**120**	**32.8**	7,000
	11/28/2023	**2,000**	950	58	**620**	3,628	<20	**22**	**230**	<200 [c]	8,200
	12/14/2023	**1,700**	**1,700**	110	**1,100**	4,610	<20	**42**	**210**	**46**	11,000
	1/3/2024	**990**	470	31	320	1,811	<20	**12**	**140**	<200 [c]	5,300
	1/16/2024	**850**	590	35	370	1,845	<20	**12**	**140**	<200 [c]	5,600
	1/31/2024	**36**	21	0.80	12	69.80	<1.0	**12**	**6.1**	<10	4,000
	2/8/2024	**820**	400	19.00	260	1,499	1.3	**9.1**	**130**	27.3	4.2
	2/19/2024	**1,100**	310	18.00	280	1,708	<5.0	**7.6**	**160**	14	4.5
	3/5/2024	**31**	<1.0	<1.0	6.9	37.9	<1.0	**1.2**	**85**	<10	0.35
	3/26/2024	**130**	24	<1.0	35	189	<1.0	**5.9**	**91**	2.6	0.71
	4/17/2024	**290**	270	<5.0	130	690	<5.0	**9.3**	**95**	<50	2.0
	4/28/2024	**490**	410	7.5	200	1,108	<5.0	**9.5**	**130**	13	3.2
	7/12/2024	**160**	130	<5.0	120	410	<5.0	**2.8**	**45**	<50 [c]	1.2
	7/29/2024	**13**	<5.0	<5.0	23	36	<5.0	0.025	**82**	<50 [c]	0.67
	8/14/2024	**130**	<2.0	<2.0	19	149	<2.0	**0.71**	**130**	<20	1.1
	8/26/2024	<5.0	<5.0	<5.0	<7.5	<22.5	<5.0	**0.75**	**130**	<50 [c]	0.22

Notes are provided at the end of the table.

Table 5. Analytical Organic Chemistry Data for the Remediation System, Water
Page 2 of 3

Well Name	Date Sampled	Concentration [a] (µg/L)									
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB [b]	EDC	PAHs	TPH GRO
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*	*NA*
GW Combined Influent (cont.)	9/12/2024	**120**	<5.0	<5.0	28	148	<5.0	**1.8**	**110**	<50 [c]	0.85
	9/26/2024	**8.9**	<5.0	<5.0	<7.5	8.9	<5.0	**0.52**	**96**	1.3	0.17
	10/7/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095	0.3	<10	<0.050
OWS Effluent	11/3/2023	**1,100**	770	65	450	2,385	<1.0	**14**	**97**	**37.2**	6,700
GW Treated Effluent	11/1/2023	**19**	9.1	1.0	7.2	36.3	<1.0	**0.58**	**9.3**	3.8	160
	11/3/2023	**42**	28	2.1	18	90.1	<1.0	**3.8**	**18**	9.3	380
	11/9/2023	**31**	23.6	1.1	14.3	69.9	<1.39	**4.5**	**15.5**	7.69 [d]	<1080
	11/16/2023	**59**	38	2.4	25	124.4	<1.0	**6.3**	**30**	12	450
	11/22/2023	**39**	26	1.5	19	85.5	<1.0	**3.4**	**19**	7.9	360
	11/28/2023	**58**	29	1.3	20	108.3	<1.0	**5.4**	**25**	8.0	460
	12/14/2023	**21**	15	<1.0	11	47	<1.0	**4.4**	**19**	4.9	240
	1/3/2024	**5.4**	2.6	<1.0	2.5	10.5	<1.0	**1.4**	**5.5**	2.6	120
	1/16/2024	**8.2**	5.9	<1.0	4.8	18.9	<1.0	**1.8**	**10**	2.6	170
	1/31/2024	3.0	1.9	<1.0	1.6	6.5	<1.0	**1.2**	**5.0**	<10	90
	2/8/2024	2.1	1.0	<1.0	<1.5	3.1	<1.0	**0.73**	4.1	<10	0.097
	2/19/2024	1.1	<1.0	<1.0	<1.5	1.1	<1.0	**0.40**	1.7	2.9	0.098
	3/5/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	0.031	<1.0	<10	<0.050
	3/26/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.18**	1.1	<10	<0.050
	4/17/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.55**	2.2	<10	0.073
	4/28/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.22**	1.5	<10	<0.050

Notes are provided at the end of the table.

Table 5. Analytical Organic Chemistry Data for the Remediation System, Water
Page 3 of 3

Well Name	Date Sampled	Concentration [a] (µg/L)									
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB [b]	EDC	PAHs	TPH GRO
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*	*NA*
GW Treated Effluent (cont.)	7/12/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.087**	1.1	<10	<0.050
	7/29/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095	<1.0	<10	<0.050
	8/14/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.10 [c]	2.2	<10	<0.050
	8/26/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	0.0093	<1.0	<10	<0.050
	9/12/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.13**	3.0	<10	<0.050
	9/26/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095	<1.0	<10	<0.050
	10/7/2024 [e]	**7.6**	<1.0	0.6	15	23.2	<1.0	<0.051 [c]	**86**	1.3	0.41

Bold indicates that value exceeds the New Mexico Water Quality Control Commission (NMWQCC) standard.

[a] Analyzed using U.S. Environmental Protection Agency (EPA) method 8260B, unless otherwise noted.

[b] Analyzed using EPA method 8011/504.1

[c] Reporting limit is equal to or greater than the standard.

[d] Reported as naphthalene only.

[e] Data not believed to be representative of actual field conditions based on other sample results.

µg/L = Micrograms per liter
BTEX = Benzene, toluene, ethylbenzene, and total xylenes
MTBE = Methyl tertiary-butyl ether
EDB = 1,2-Dibromoethane
EDC = 1,2-Dichloroethane
PAHs = Polycyclic aromatic hydrocarbons (total naphthalenes = naphthalene + 1-methylnaphthalene + 2-methylnaphthalene)
TPH = Total petroleum hydrocarbons
GRO = Gasoline-range organics

Table 6. Analytical Inorganic Chemistry Data for the Remediation System
Page 1 of 3

Well Name	Date Sampled	Concentration [a] (mg/L)			
		Chloride	Nitrate (as N)	Sulfate	TDS [b]
NMWQCC Standard		*250*	*10*	*600*	*1,000*
GW Combined Influent	11/1/2023	87	2.3	51	550
	11/3/2023	84	2.1	46	490
	11/9/2023	82	2.3	47	NA
	11/16/2023	86	2.2	45	502
	11/22/2023	84	2.2	45	536
	11/28/2023	85	1.6	45	544
	12/14/2023	92	0.59	48	630
	1/3/2024	82	2.1	44	526
	1/16/2024	79	2.1	43	544
	1/31/2024	81	2.0	44	494
	2/8/2024	84	1.8	44	492
	2/19/2024	86	<1.0	37	438
	3/5/2024	66	1.3	33	420
	3/27/2024	77	2.0	41	510
	4/17/2024	72	2	47	490
	4/28/2024	64	<1.0	43	470
	7/12/2024	67	1.9	46	490
	7/29/2024	86	1.7	48	550
	8/14/2024	69	1.3	47	480

Notes are provided at the end of the table.

Table 6. Analytical Inorganic Chemistry Data for the Remediation System
Page 2 of 3

Well Name	Date Sampled	Concentration [a] (mg/L)			
		Chloride	Nitrate (as N)	Sulfate	TDS [b]
NMWQCC Standard		*250*	*10*	*600*	*1,000*
GW Combined Influent (cont.)	8/26/2024	79	1.6	43	520
	9/12/2024	68	1.4	39	470
	9/26/2024	96	1.2	47	520
	10/7/2024 [c]	86	0.3	46	470
GW Treated Effluent	11/1/2023	88	2.4	51	536
	11/3/2023	84	2.1	46	315
	11/9/2023	82	2.3	47	NA
	11/16/2023	85	2.1	45	496
	11/22/2023	84	2.2	45	552
	11/28/2023	85	1.5	47	556
	12/14/2023	80	0.71	43	528
	1/3/2024	80	2.0	43	526
	1/16/2024	80	2.0	43	529
	1/31/2024	78	1.9	42	505
	2/8/2024	85	1.7	44	508
	2/19/2024	79	<1.0	35	424
	3/5/2024	78	1.3	38	460
	3/27/2024	78	1.9	41	510
	4/17/2024	77	1.6	43	520

Notes are provided at the end of the table.

Table 6. Analytical Inorganic Chemistry Data for the Remediation System
Page 3 of 3

Well Name	Date Sampled	Concentration [a] (mg/L)			
		Chloride	Nitrate (as N)	Sulfate	TDS [b]
NMWQCC Standard		*250*	*10*	*600*	*1,000*
GW Treated Effluent (cont.)	4/28/2024	65	<1.0	43	460
	7/12/2024	77	1.3	45	470
	7/29/2024	88	1.6	48	480
	8/14/2024	70	1.5	48	480
	8/26/2024	83	1.5	45	470
	9/12/2024	69	1.5	40	440
	9/26/2024	84	0.4	47	440
	10/7/2024 [c]	93	0.3	50	530

[a] Analyzed using U.S. Environmental Protection Agency (EPA) method 300.0, unless otherwise noted.

[b] Analyzed using SM 2540C Mod.

[c] Data not believed to be representative of actual field conditions based on other sample results.

mg/L = Milligrams per liter
TDS = Total dissolved solids
NMWQCC = New Mexico Water Quality Control Commission
GW = Groundwater
NA = Not analyzed

Table 7. Utility Usage Summary

Electric (Xcel)				Natural Gas (NM Gas Co)			
Service Address: 1901 N. Prince Street Unit Container				Service Address: 1901 N Prince St			
Account #: 54-0013827214-6				Account #: 000237605-1412631-4			
Meter #: 160137895				Meter #: 1691600			
Read Date	Days Billed	kWh Used	Total Charges	Read Date	Days Billed	Therms	Total Charges
9/29/2023	START						
10/10/2023	11	19	$8.95	10/6/2023	START		$82.57
11/9/2023	29	4,490	$469.04	11/6/2023	31	1,124	$847.87
12/12/2023	34	21,806	$1,463.34	12/7/2023	31	10,730	$8,324.94
1/11/2024	30	20,034	$1,358.28	1/6/2024	30	12,154	$8,759.54
2/12/2024	31	25,099	$1,734.42	2/6/2024	31	12,697	$8,897.61
3/13/2024	31	12,780	$1,107.80	3/7/2024	30	5,712	$3,816.73
4/11/2024	29	6,328	$767.09	4/8/2024	32	0	$31.35
5/10/2024	29	4,468	$551.73	5/7/2024	29	0	$31.35
6/11/2024	32	800	$281.78	6/6/2024	30	382	$133.43
7/11/2024	30	232	$134.73	7/8/2024	32	78	$55.29
8/9/2024	29	14,224	$882.49	8/6/2024	29	12,025	$4,982.00
9/10/2024	32	14,395	$990.10	9/6/2024	31	11,164	$4,520.87
10/9/2024	29	13,544	$1,076.23	10/7/2024	29	11,036	$4,310.55
Daily average		378	$29.97			213	$123.18
Daily average, 1Q		705	$47.96			387	$282.41
Daily average, 2Q		406	$34.68			340	$146.12
Daily average, 3Q		284	$23.02			230	$97.65

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
BW-1	295–345	4,279.88 [c]	4/13/2012	322.49	—	0.00	3,957.39
			7/27/2012	322.69	—	0.00	3,957.19
			9/24/2012	322.75	—	0.00	3,957.13
		4,279.55	4/29/2014	325.75	—	0.00	3,953.80
			5/8/2015	326.60	—	0.00	3,952.95
			9/10/2015	326.96	—	0.00	3,952.59
			3/29/2016	327.12	—	0.00	3,952.43
			7/26/2016	327.34	—	0.00	3,952.21
			7/10/2018 [d]	327.93	—	0.00	3,951.62
			2/14/2019 [d]	328.18	—	0.00	3,951.37
			3/6/2019	328.11	—	0.00	3,951.44
			5/2/2019 [d]	328.41	—	0.00	3,951.14
			5/20/2019	328.20	—	0.00	3,951.35
			8/13/2019	328.61	—	0.00	3,950.94
			9/16/2019	328.85	—	0.00	3,950.70
			6/8/2020	328.91	—	0.00	3,950.64
			9/9/2020	329.24	—	0.00	3,950.31
			12/27/2020	329.27	—	0.00	3,950.28
			3/19/2021	329.44	—	0.00	3,950.11
			5/31/2022	Well plugged and abandoned			

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
BW-2	287–347	4,280.53 [c]	10/26/2009	323.12	—	0.00	3,957.41
			9/24/2012	323.21	—	0.00	3,957.32
		4,280.23	4/29/2014	326.14	—	0.00	3,954.09
			5/8/2015	327.00	—	0.00	3,953.23
			9/10/2015	327.33	—	0.00	3,952.90
			3/29/2016	327.52	—	0.00	3,952.71
			7/26/2016	327.78	—	0.00	3,952.45
			7/10/2018 [d]	328.38	—	0.00	3,951.85
			2/14/2019 [d]	328.60	—	0.00	3,951.63
			3/6/2019	328.53	—	0.00	3,951.70
			5/2/2019 [d]	328.97	—	0.00	3,951.26
			5/20/2019	328.61	—	0.00	3,951.62
			8/13/2019	329.03	—	0.00	3,951.20
			9/17/2019	328.98	—	0.00	3,951.25
			6/8/2020	329.34	—	0.00	3,950.89
			9/9/2020	329.62	—	0.00	3,950.61
			12/27/2020	329.75	—	0.00	3,950.48
			3/19/2021	329.90	—	0.00	3,950.33
			5/31/2022	Well plugged and abandoned			

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
BW-3	287–347	4,280.17 [c]	10/26/2009	322.36	—	0.00	3,957.81
			9/24/2012	322.44	—	0.00	3,957.73
		4,279.91	4/29/2014	325.38	—	0.00	3,954.53
			5/8/2015	326.20	—	0.00	3,953.71
			9/10/2015	326.56	—	0.00	3,953.35
			3/29/2016	326.71	—	0.00	3,953.20
			7/26/2016	326.94	—	0.00	3,952.97
			7/10/2018 [d]	327.52	—	0.00	3,952.39
			2/14/2019 [d]	327.76	—	0.00	3,952.15
			3/6/2019	327.75	—	0.00	3,952.16
			5/2/2019 [d]	328.00	—	0.00	3,951.91
			5/20/2019	327.79	—	0.00	3,952.12
			8/13/2019	328.19	—	0.00	3,951.72
			9/16/2019	328.11	—	0.00	3,951.80
			6/8/2020	328.49	—	0.00	3,951.42
			9/9/2020	328.79	—	0.00	3,951.12
			12/27/2020	328.87	—	0.00	3,951.04
			3/19/2021	329.00	—	0.00	3,950.91
			5/31/2022	Well plugged and abandoned			

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
BW-4	275–345	4,280.02	4/29/2014	326.04	—	0.00	3,953.98
			5/8/2015	326.80	—	0.00	3,953.22
			9/10/2015	327.23	—	0.00	3,952.79
			3/29/2016	327.27	—	0.00	3,952.75
			7/26/2016	327.52	—	0.00	3,952.50
			7/10/2018 [d]	327.95	—	0.00	3,952.07
			2/14/2019 [d]	328.29	—	0.00	3,951.73
			3/6/2019	328.20	—	0.00	3,951.82
			5/2/2019 [d]	328.59	—	0.00	3,951.43
			5/20/2019	328.36	—	0.00	3,951.66
			8/13/2019	328.74	—	0.00	3,951.28
			9/17/2019	328.59	—	0.00	3,951.43
			6/8/2020	329.04	—	0.00	3,950.98
			9/9/2020	329.33	—	0.00	3,950.69
			12/27/2020	329.42	—	0.00	3,950.60
			3/19/2021	329.50	—	0.00	3,950.52
			12/13/2023	332.30	—	0.00	3,947.72
			12/14/2023	332.04	—	0.00	3,947.98
			3/29/2024	332.26	—	0.00	3,947.76

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
BW-4 (cont.)	275–345	4,280.02	8/25/2024	332.73	—	0.00	3,947.29
			8/29/2024	332.37	—	0.00	3,947.65
BW-5	273.5–348.5	4,278.99	4/29/2014	325.53	—	0.00	3,953.46
			5/8/2015	326.27	—	0.00	3,952.72
			9/10/2015	326.73	—	0.00	3,952.26
			3/29/2016	326.87	—	0.00	3,952.12
			7/26/2016	326.98	—	0.00	3,952.01
			7/10/2018 [d]	327.53	—	0.00	3,951.46
			2/14/2019 [d]	329.46	NA	NA	NA
			3/6/2019	329.28	327.36	1.92	3,951.15
			5/2/2019 [d]	329.70	NA	NA	NA
			5/20/2019	329.35	327.58	1.77	3,950.97
			8/13/2019	328.89	328.20	0.69	3,950.62
			9/20/2019	328.94	328.18	0.76	3,950.62
			6/8/2020	329.65	329.07	0.58	3,949.78
			9/9/2020	329.34	328.92	0.42	3,949.97
			12/27/2020	329.20	329.06	0.14	3,949.90
			3/20/2021	329.34	329.19	0.15	3,949.76
			12/13/2023	332.29	329.19	0.00	3,946.70
			12/14/2023	331.53	329.19	0.00	3,947.46

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
BW-5 (cont.)	273.5–348.5	4,278.99	3/29/2024	332.03	332.01	0.02	3,946.98
			8/25/2024	332.18	—	0.00	3,946.81
			8/29/2024	331.84	—	0.00	3,947.15
BW-6	275–345	4,280.24	4/29/2014	326.46	—	0.00	3,953.78
			5/8/2015	327.27	—	0.00	3,952.97
			9/10/2015	327.60	—	0.00	3,952.64
			3/29/2016	327.70	—	0.00	3,952.54
			7/26/2016	328.08	—	0.00	3,952.16
			7/10/2018 [d]	328.72	—	0.00	3,951.52
			2/14/2019 [d]	328.91	—	0.00	3,951.33
			3/6/2019	328.82	—	0.00	3,951.42
			5/2/2019 [d]	329.23	—	0.00	3,951.01
			5/20/2019	328.91	—	0.00	3,951.33
			8/13/2019	329.35	—	0.00	3,950.89
			9/16/2019	329.18	—	0.00	3,951.06
			6/8/2020	329.70	—	0.00	3,950.54
			9/9/2020	330.00	—	0.00	3,950.24
			12/27/2020	330.07	—	0.00	3,950.17
			3/19/2021	330.24	—	0.00	3,950.00
			12/13/2023	332.80	—	0.00	3,947.44

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
BW-6 (cont.)	275–345	4,280.24	3/29/2024	332.01	—	0.00	3,948.23
			8/25/2024	333.23	—	0.00	3,947.01
			8/29/2024	332.99	—	0.00	3,947.25
BW-7	284–349	4,277.47	4/29/2014	324.63	—	0.00	3,952.84
			5/8/2015	325.42	—	0.00	3,952.05
			9/10/2015	325.84	—	0.00	3,951.63
			3/29/2016	326.01	—	0.00	3,951.46
			7/26/2016	326.14	—	0.00	3,951.33
			3/6/2019	326.88	—	0.00	3,950.59
			5/20/2019	327.11	—	0.00	3,950.36
			8/13/2019	327.47	—	0.00	3,950.00
			9/18/2019	327.39	—	0.00	3,950.08
			6/8/2020	327.83	—	0.00	3,949.64
			9/9/2020	328.13	—	0.00	3,949.34
			12/27/2020	328.22	—	0.00	3,949.25
			3/19/2021	328.38	—	0.00	3,949.09
			12/13/2023	331.06	—	0.00	3,946.41
			12/14/2023	330.73	—	0.00	3,946.74
			3/29/2024	331.22	—	0.00	3,946.25

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
BW-7 (cont.)	284–349	4,277.47	8/25/2024	331.39	—	0.00	3,946.08
			8/29/2024	331.11	—	0.00	3,946.36
BW-7R	286.8-357.1	4,277.44	8/13/2019	327.33	—	0.00	3,950.11
			9/21/2019	327.80	—	0.00	3,949.64
			6/8/2020	327.83	—	0.00	3,949.61
			9/9/2020	328.08	—	0.00	3,949.36
			12/27/2020	328.19	—	0.00	3,949.25
			3/19/2021	328.39	—	0.00	3,949.05
		4,277.58 [e]	12/13/2023 [f]	334.2	—	0.00	3,943.38
			12/14/2023 [f]	330.7	—	0.00	3,946.88
			3/29/2024 [f]	331.0	—	0.00	3,946.58
			3/29/2024 [f]	331.1	—	0.00	3,946.48
			8/25/2024 [f]	353.0	—	0.00	3,924.58
			8/29/2024 [f]	331.1	—	0.00	3,946.48
BW-8	287–347	4,278.74	3/29/2016	326.61	—	0.00	3,952.13
			7/26/2016	326.75	—	0.00	3,951.99
			7/10/2018 [d]	327.33	—	0.00	3,951.41
			2/14/2019 [d]	327.73	—	0.00	3,951.01
			3/6/2019	327.55	—	0.00	3,951.19
			5/20/2019	327.72	—	0.00	3,951.02

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
BW-8 (cont.)	287–347	4,278.74	8/13/2019	328.10	—	0.00	3,950.64
			9/18/2019	327.99	—	0.00	3,950.75
			6/8/2020	328.34	—	0.00	3,950.40
			9/9/2020	328.73	—	0.00	3,950.01
			12/27/2020	328.89	—	0.00	3,949.85
			3/20/2021	328.93	—	0.00	3,949.81
		4,277.89 [e]	12/13/2023	330.68	—	0.00	3,947.21
			12/14/2023	330.47	—	0.00	3,947.42
			3/29/2024	331.02	—	0.00	3,946.87
			8/25/2024	330.90	—	0.00	3,946.99
			8/29/2024	330.87	—	0.00	3,947.02
BW-9	287–347	4,278.31	3/29/2016	326.30	—	0.00	3,952.01
			7/26/2016	326.60	—	0.00	3,951.71
			3/6/2019	327.33	—	0.00	3,950.98
			5/2/2019 [d]	327.67	—	0.00	3,950.64
			5/20/2019	327.44	—	0.00	3,950.87
			8/13/2019	327.81	—	0.00	3,950.50
			9/17/2019	327.74	—	0.00	3,950.57
			6/8/2020	328.11	—	0.00	3,950.20
			9/9/2020	328.45	—	0.00	3,949.86
			12/27/2020	328.52	—	0.00	3,949.79

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
BW-9 (cont.)	287–347	4,278.31	3/19/2021	328.62	—	0.00	3,949.69
			12/13/2023	331.43	—	0.00	3,946.88
			3/29/2024	331.36	—	0.00	3,946.95
			8/25/2024	331.98	—	0.00	3,946.33
			8/29/2024	331.69	—	0.00	3,946.62
BW-10	306–346	4,275.11	3/29/2016	323.92	—	0.00	3,951.19
			7/26/2016	324.21	—	0.00	3,950.90
			3/6/2019	324.96	—	0.00	3,950.15
			5/20/2019	324.99	—	0.00	3,950.12
			8/13/2019	325.44	—	0.00	3,949.67
			9/17/2019	325.30	—	0.00	3,949.81
			6/8/2020	325.77	—	0.00	3,949.34
			9/9/2020	326.15	—	0.00	3,948.96
			12/27/2020	326.23	—	0.00	3,948.88
			3/19/2021	326.35	—	0.00	3,948.76
			12/13/2023	329.14	—	0.00	3,945.97
			3/29/2024	329.07	—	0.00	3,946.04
			8/25/2024	329.70	—	0.00	3,945.41
			8/29/2024	329.43	—	0.00	3,945.68

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
MW-11	285.5–355.5	4,274.64	8/13/2019	325.81	—	0.00	3,948.83
			9/18/2019	325.85	—	0.00	3,948.79
			6/8/2020	326.24	—	0.00	3,948.40
		4,273.83 [e]	9/9/2020	326.68	—	0.00	3,947.96
			12/27/2020	326.70	—	0.00	3,947.94
			3/19/2021	326.88	—	0.00	3,947.76
			12/13/2023 [f]	336.1	—	0.00	3,937.73
			12/14/2023 [f]	328.5	—	0.00	3,945.33
			3/29/2024 [f,g]	328.5	—	0.00	3,945.33
			8/25/2024 [f]	No reading			
			8/29/2024 [f]				
MW-12	286.5–356.7	4,277.60	8/13/2019	328.16	—	0.00	3,949.44
			9/20/2019	328.14	—	0.00	3,949.46
			6/8/2020	328.60	—	0.00	3,949.00
			9/9/2020	328.93	—	0.00	3,948.67
			12/27/2020	329.05	—	0.00	3,948.55
			3/20/2021	329.22	—	0.00	3,948.38
		4,277.32 [e]	12/13/2023 [f]	334.8	—	0.00	3,942.52
			12/14/2023 [f]	331.2	—	0.00	3,946.12
			3/29/2024 [f]	331.4	—	0.00	3,945.92

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
MW-12 (cont.)	286.5–356.7	4,277.32 [e]	8/25/2024 [f]	332.0	—	0.00	3,945.32
			8/29/2024 [f]	324.3	—	0.00	3,953.02
MW-13	287–357	4,275.82	8/13/2019	326.33	—	0.00	3,949.49
			9/21/2019	326.44	—	0.00	3,949.38
			6/8/2020	326.77	—	0.00	3,949.05
			9/9/2020	327.08	—	0.00	3,948.74
			12/27/2020	327.21	—	0.00	3,948.61
			3/19/2021	327.38	—	0.00	3,948.44
		4,275.35 [e]	12/13/2023 [f]	330.3	—	0.00	3,945.05
			12/14/2023 [f]	329.2	—	0.00	3,946.15
			3/30/2024 [f]	329.7	—	0.00	3,945.65
			8/25/2024 [f]	330.3	—	0.00	3,945.05
			8/29/2024 [f]	326.0	—	0.00	3,949.35
MW-14	280.5–350.7	4,265.25	9/19/2019	318.03	—	0.00	3,947.22
			6/8/2020	318.52	—	0.00	3,946.73
			9/9/2020	319.02	—	0.00	3,946.23
			12/27/2020	319.21	—	0.00	3,946.04
			3/19/2021	319.34	—	0.00	3,945.91
			12/13/2023	321.56	—	0.00	3,943.69
			12/14/2023	321.70	—	0.00	3,943.55

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
MW-14 (cont.)	280.5–350.7	4,265.25	3/29/2024	321.86	—	0.00	3,943.39
			8/25/2024	326.47	—	0.00	3,938.78
			8/29/2024	322.13	—	0.00	3,943.12
MW-15	282.0–352.3	4,268.58	6/8/2020	322.86	—	0.00	3,945.72
			9/9/2020	323.38	—	0.00	3,945.20
			12/27/2020	323.63	—	0.00	3,944.95
			3/19/2021	323.76	—	0.00	3,944.82
			12/13/2023	325.97	—	0.00	3,942.61
			12/14/2023	326.02	—	0.00	3,942.56
			3/29/2024	326.13	—	0.00	3,942.45
			8/25/2024	323.26	—	0.00	3,945.32
			8/29/2024	326.40	—	0.00	3,942.18
MW-16	289.0–359.3	4,276.23	6/8/2020	328.75	—	0.00	3,947.48
			9/9/2020	329.14	—	0.00	3,947.09
			12/27/2020	329.27	—	0.00	3,946.96
			3/19/2021	329.44	—	0.00	3,946.79
		4,276.04 [e]	12/13/2023 [f]	335.1	—	0.00	3,940.94
			12/14/2023 [f]	331.6	—	0.00	3,944.44
			3/29/2024 [f]	331.2	—	0.00	3,944.84

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
MW-16 (cont.)	289.0–359.3	4,276.04 [e]	8/25/2024 [f]	330.2	—	0.00	3,945.84
			8/29/2024 [f]	331.1	—	0.00	3,944.94
MW-17	288.4–358.7	4,277.42	6/8/2020	329.19	—	0.00	3,948.23
			9/9/2020	329.58	—	0.00	3,947.84
			12/27/2020	329.78	—	0.00	3,947.64
			3/19/2021	329.89	—	0.00	3,947.53
			12/13/2023	332.38	—	0.00	3,945.04
			12/14/2023	332.35	—	0.00	3,945.07
			3/29/2024	332.49	—	0.00	3,944.93
			8/25/2024	332.87	—	0.00	3,944.55
			8/29/2024	332.66	—	0.00	3,944.76
RW-1	264.9–355.3	4,280.00	8/13/2019	328.89	—	0.00	3,951.11
			9/19/2019	328.84	—	0.00	3,951.16
			6/8/2020	329.22	—	0.00	3,950.78
			9/9/2020	329.47	—	0.00	3,950.53
			12/27/2020	329.63	—	0.00	3,950.37
			3/20/2021	329.74	—	0.00	3,950.26
			12/13/2023 [f]	343.4	—	0.00	3,936.16
			12/14/2023 [f]	331.7	—	0.00	3,947.86
			3/29/2024 [f]	331.9	—	0.00	3,947.66

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
RW-1 (cont.)	264.9–355.3	4,279.56 [e]	8/25/2024 [f]	No reading			
			8/29/2024 [f]				
RW-2	289.8–360.1	4,279.70	8/13/2019	329.00	—	0.00	3,950.70
			9/18/2019	328.97	—	0.00	3,950.73
			6/8/2020	329.28	—	0.00	3,950.42
			9/9/2020	329.58	—	0.00	3,950.12
			12/27/2020	329.77	—	0.00	3,949.93
			3/19/2021	330.07	329.72	0.35	3,949.89
		4,278.97 [e]	12/13/2023 [f]	332.9	—	0.00	3,946.07
			12/14/2023 [f]	331.8	—	0.00	3,947.17
			3/29/2024 [f]	330.7	—	0.00	3,948.27
			8/25/2024 [f]	333.4	—	0.00	3,945.57
			8/29/2024 [f]	No reading			
RW-3	289.3–359.5	4,278.78	9/20/2019	327.95	—	0.00	3,950.83
			6/8/2020	328.25	—	0.00	3,950.53
			9/9/2020	328.56	—	0.00	3,950.22
			12/27/2020	328.68	—	0.00	3,950.10
			3/20/2021	328.83	—	0.00	3,949.95
		4,278.53 [e]	12/13/2023 [f]	334.3	—	0.00	3,944.23
			12/14/2023 [f]	330.9	—	0.00	3,947.63
			3/29/2024 [f]	330.9	—	0.00	3,947.63

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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Well Name	Screened Interval (feet bgs)	Top of Casing Elevation [a] (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (feet msl)
RW-3 (cont.)	289.3–359.5	4,278.53 [e]	8/25/2024 [f]	357.7	—	0.00	3,920.83
			8/29/2024 [f]	332.2	—	0.00	3,946.33
RW-4	291.2–361.5	4,278.84	9/19/2019	328.48	—	0.00	3,950.36
			6/8/2020	328.85	—	0.00	3,949.99
			9/9/2020	329.18	—	0.00	3,949.66
			12/27/2020	329.27	—	0.00	3,949.57
			3/19/2021	329.38	—	0.00	3,949.46
		4,278.10 [e]	12/13/2023 [f]	341.6	—	0.00	3,936.50
			12/14/2023 [f]	331.2	—	0.00	3,946.90
			3/29/2024 [f]	331.5	—	0.00	3,946.60
			8/25/2024 [f]	332.0	—	0.00	3,946.10
			8/29/2024 [f]	331.4	—	0.00	3,946.70

Note: Pre-2017 data reported by Brown Environmental, Inc. (BEI, 2016).

[a] Surveyed by Lydick Engineers & Surveyors, October 2019 or June 2020. For consistency, historical groundwater elevations reference current survey data.

[b] Groundwater elevation (GWE) corrected for LNAPL thickness using the following equation: GWE = Top of Casing Elevation – (DTW – [LNAPL thickness x 0.75]).

[c] Well survey data reported by BEI following well installation.

[d] Data reported by Brown Environmental, Inc. (BEI, 2019).

[e] Surveyed by Lydick Engineers & Surveyors, April 2022, following remediation system installation.

[f] Transducer data used to calculate depth to water and groundwater elevation.

[g] Depth to water recorded while remediation system was operating.

bgs = Below ground surface
btoc = Below top of casing
msl = Above mean sea level
LNAPL = Light nonaqueous-phase liquid

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-1	4/13/2012	**240**	61	4.5	20	325.5	1.6	<1.0 [b]	3.5	<10
	9/25/2012	**290**	29	4.9	34	357.9	<1.0	<1.0 [b]	**5.2**	<10
	9/25/2012 [c]	**200**	46	7.8	45	298.8	<1.0	<1.0 [b]	**6.2**	<10
	4/30/2014	**50**	6.0	<1.0	1.6	57.6	<1.0	<1.0 [b]	1.4	<10
	5/7/2015	**130**	5.5	<1.0	5.6	141.1	1.1	<1.0 [b]	2.6	<10
	9/11/2015	**13**	55	<1.0	<1.5	68	<1.0	<1.0 [b]	<1.0	<10
	3/30/2016	**40**	130	<1.0	<1.5	170	<1.0	<1.0 [b]	1.3	<10
	7/27/2016	**18**	15	<1.0	<1.5	33	1.2	<1.0 [b]	1.9	<10
	7/10/2018	<1.0	2.9	<1.0	<1.5	2.9	<1.0	<1.0 [b]	<1.0	<10
	7/10/2018 [c]	<1.0	2.9	<1.0	<1.5	2.9	<1.0	<1.0 [b]	<1.0	<10
	2/15/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	2/15/2019 [c]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	5/3/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	5/3/2019 [c]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	5/22/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	9/16/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	6/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	5/31/2022	Well plugged and abandoned								

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-2	9/25/2012	**21**	15	<1.0	6.2	42.2	<1.0	<1.0 [b]	1.0	<10
	4/29/2014	<1.0	5.6	<1.0	<1.5	5.6	<1.0	<1.0 [b]	<1.0	<10
	5/7/2015	<1.0	18	<1.0	<1.5	18	<1.0	<1.0 [b]	<1.0	<10
	9/10/2015	**7.2**	21	<1.0	<1.5	28.2	<1.0	<1.0 [b]	<1.0	<10
	3/29/2016	<1.0	97	<1.0	<1.5	97	<1.0	<1.0 [b]	<1.0	<10
	7/26/2016	<1.0	2.5	<1.0	<1.5	2.5	<1.0	<1.0 [b]	<1.0	<10
	7/10/2018	<1.0	1.7	<1.0	<1.5	1.7	<1.0	<1.0 [b]	<1.0	<10
	2/14/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	5/2/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	9/17/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0092 [d]	<1.0	<10
	6/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	5/31/2022	Well plugged and abandoned								
BW-3	9/25/2012	1.4	56	<1.0	6.1	63.5	<1.0	<1.0 [b]	<1.0	<10
	4/29/2014	<1.0	14	<1.0	<1.5	14	<1.0	<1.0 [b]	<1.0	<10
	5/7/2015	2.6	5.0	<1.0	3.5	11.1	<1.0	<1.0 [b]	<1.0	<10
	9/10/2015	<1.0	46	<1.0	<1.5	46	<1.0	<1.0 [b]	<1.0	<10
	3/29/2016	<1.0	180	<1.0	2.2	182.2	<1.0	<1.0 [b]	<1.0	<10
	7/26/2016	<1.0	4.0	<1.0	<1.5	4.0	<1.0	<1.0 [b]	<1.0	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-3 (cont.)	7/10/2018	<1.0	4.3	<1.0	<1.5	4.3	<1.0	<1.0 [b]	<1.0	<10
	2/15/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	5/3/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	9/16/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	6/9/2020	<1.0	1.2	<1.0	<1.5	1.2	<1.0	<0.0094 [d]	<1.0	<10
	5/31/2022	Well plugged and abandoned								
BW-4	4/30/2014	<1.0	11	<1.0	<1.5	11	<1.0	<1.0 [b]	1.8	<10
	5/7/2015	**1,100**	**1,100**	61	600	2,861	<1.0	<1.0 [b]	**32**	<10
	9/10/2015	1.9	43	<1.0	<1.5	44.9	<1.0	<1.0 [b]	<1.0	<10
	3/30/2016	**200**	200	5.1	33	438.1	<1.0	<1.0 [b]	**6.9**	<10
	7/27/2016	**140**	85	1.2	15	241.2	<1.0	<1.0 [b]	**6.9**	<10
	5/22/2019	1.8	<1.0	<1.0	<1.5	1.8	<1.0	<0.0094 [d]	2.1	<10
	9/17/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0092 [d]	<1.0	<10
	6/10/2020	2.2	<1.0	<1.0	<1.5	2.2	<1.0	<0.0093 [d]	**5.0**	<10
	9/11/2020	1.6	<1.0	<1.0	<1.5	1.6	<1.0	<0.0094 [d]	3.3	<10
	12/28/2020 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	1.1	<10
	3/20/2021 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	1.6	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-4 (cont.)	12/14/2023 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	3/29/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	8/26/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
BW-5	4/29/2014	**2,100**	**1,800**	200	**990**	5,090	<1.0	**29**	**100**	**59.9**
	5/8/2015	**3,700**	**2,800**	300	**1,700**	8,500	<5.0	**51**	**180**	**83**
	9/11/2015	**2,000**	**1,400**	220	**900**	4,520	<5.0	**18**	**100**	**80**
	9/11/2015 [c]	**1,900**	**1,300**	230	**960**	4,390	<5.0	**20**	**100**	**64**
	3/30/2016	**5,000**	**4,200**	500	**2,000**	11,700	<5.0	**54**	**230**	<500 [b]
	7/28/2016	**2,000**	**2,400**	270	**1,300**	5,970	<10	**29**	**110**	**141**
	5/20/2019–3/20/2021	Well not sampled due to presence of LNAPL								
	12/14/2023 [e]	<2.0	2.5	<2.0	76	78.5	<2.0	**0.29** [d]	4.4	<20
	3/29/2024 [e]	**90**	660	88	**1,800**	2,638	<20	**13** [d]	**21**	**1,260**
	8/26/2024 [e]	**550**	180	69	**1,300**	2,099	<10	**9.2** [d]	**110**	**326**
BW-6	4/29/2014	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 [b]	<1.0	<10
	5/7/2015	<1.0	8.4	<1.0	<1.5	8.4	<1.0	<1.0 [b]	<1.0	<10
	9/10/2015	<1.0	36	<1.0	<1.5	36	<1.0	<1.0 [b]	<1.0	<10
	3/29/2016	<1.0	130	<1.0	<1.5	130	<1.0	<1.0 [b]	<1.0	<10
	7/26/2016	<1.0	3.8	<1.0	<1.5	3.8	<1.0	<1.0 [b]	<1.0	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-6 (cont.)	7/11/2018	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 [b]	<1.0	<10
	2/15/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	5/2/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	9/16/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	6/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
BW-7	4/30/2014	**990**	3.4	67	260	1,320	<1.0	**2.6**	**75**	21.1
	4/30/2014 [c]	**1,100**	4.4	74	300	1,478	<1.0	**2.9**	**75**	20.1
	5/8/2015	**3,200**	**1,200**	210	**920**	5,530	<1.0	**9.6**	**230**	**45.5**
	9/11/2015	**9,400**	**5,000**	**750**	**2,600**	17,750	<1.0	**36**	**590**	**204**
	3/31/2016	**8,800**	**2,900**	650	**2,100**	14,450	<1.0	<50 [b]	**580**	**120**
	7/28/2016	**8,000**	**1,100**	630	**1,200**	10,930	<50	<50 [b]	**500**	**120**
	5/22/2019	**1,400**	140	100	230	1,870	<5.0	**0.24**	**180**	22
	9/18/2019	**590**	5.3	56	88	739.3	<2.0	**0.31** [d]	**120**	15
	6/12/2020	**240**	<2.0	<2.0	<3.0	240	<2.0	**0.86** [d]	**65**	<20
	9/14/2020	**48**	<1.0	1.4	<1.5	49.4	<1.0	**0.86** [d]	**78**	<10
	12/28/2020 [e]	**790**	<2.0	<2.0	3.1	793.1	<2.0	0.015 [d]	**370**	<20
	3/20/2021 [e]	**1,000**	<2.0	13	3.3	1,016.3	<2.0	0.0094 [d]	**110**	<20
	12/14/2023 [e]	<5.0 [b]	<5.0	<5.0	<7.5	<22.5	<5.0	**0.12** [d]	**43**	<50 [b]

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-7 (cont.)	3/29/2024 [e]	<2.0	<2.0	<2.0	<3.0	<9.0	<2.0	**0.36** [d]	**240**	<20
	8/26/2024 [e]	<2.0	<2.0	<2.0	<3.0	<9.0	<2.0	**0.17** [d]	**190**	<20
BW-7R	9/21/2019	**51**	9.4	1.5	9.2	71.1	<1.0	**0.096** [d]	**22**	<10
	6/11/2020	**160**	2.5	7.1	13	182.6	<1.0	**0.36** [d]	**50**	4.1
	9/12/2020	**130**	<2.0	4.3	5.6	139.9	<2.0	**0.17** [d]	**60**	<20
	12/28/2020	**130**	1.5	3.2	2.1	136.8	<1.0	**0.29** [d]	**71**	2.9
	12/28/2020 [e]	**610**	3.6	11	2.5	627.1	<1.0	0.044 [d]	**88**	6.7
	3/20/2021 [e]	**920**	2.2	43	20	985.2	<2.0	0.012 [d]	**120**	11
	12/13/2023 [f]	**1,700**	460	54	470	2,684	<2.0	**7.3** [d]	**210**	**30**
	3/28/2024 [f]	**5.8**	<2.0	<2.0	9.4	15.2	<2.0	**3.3** [d]	**190**	<20
	8/26/2024 [f]	<2.0	<2.0	<2.0	<3.0	<9.0	<2.0	**1.1** [d]	**120**	<20
BW-8	3/31/2016	**3,900**	**5,400**	440	**2,400**	12,140	<1.0	**95**	**210**	<500 [b]
	3/31/2016 [c]	**4,300**	**5,900**	500	**2,700**	13,400	<1.0	**110**	**230**	**100**
	7/28/2016	**3,600**	**4,800**	380	**2,500**	11,280	<50	**100**	**180**	**120**
	7/28/2016 [c]	**3,400**	**4,700**	380	**2,500**	10,980	<50	**100**	**180**	**120**
	5/30/2019	**4,600**	**4,200**	390	**1,200**	10,390	<5.0	**9.1** [d]	**290**	**67**
	9/18/2019	**5,000**	**4,300**	420	**1,400**	11,120	<10	**14** [d]	**270**	**94**
	6/13/2020	**7,000**	**7,900**	**700**	**2,500**	18,100	<20	**0.72** [d]	**190**	**180**
	9/15/2020	**4,800**	**7,500**	590	**2,600**	15,490	<50	**0.092** [d]	**95**	**130**

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-8 (cont.)	12/29/2020	**4,100**	**5,600**	450	**1,800**	11,950	<5.0	**0.11** [d]	**90**	**146**
	12/29/2020 [e]	**15,000**	**24,000**	**1,400**	**7,400**	47,800	<20	**0.20** [d]	**77**	**413**
	3/21/2021 [e]	**14,000**	**23,000**	**1,600**	**6,600**	45,200	<50	**0.86** [d]	**94**	**300**
	12/14/2023 [e]	**1,500**	**1,300**	170	**910**	3,880	<50	**36** [d]	**98**	<500 [b]
	3/29/2024 [e]	**8,000**	**12,000**	**810**	**4,600**	25,410	<50	**0.53** [d]	<20 [b]	**220**
	8/26/2024 [e]	**1,800**	**2,100**	**250**	**1,100**	5,250	<5.0	**7.3** [d]	**25**	**105**
BW-8 (Deep HS)	6/13/2020	**7,000**	**8,400**	570	**2,400**	18,370	<10	**0.26** [d]	<10 [b]	**120**
	9/15/2020	**14,000**	**28,000**	**1,600**	**10,000**	53,600	<50	**0.70** [d]	<50 [b]	**370**
BW-8 (Shallow HS)	6/13/2020	**6,300**	**8,500**	670	**2,600**	18,070	<20	**0.25** [d]	<20 [b]	**130**
	9/15/2020	**12,000**	**24,000**	**1,500**	**9,600**	47,100	<50	**0.88** [d]	**63**	**370**
	12/29/2020	**17,000**	**31,000**	**2,000**	**11,000**	61,000	<20	**0.19** [d]	**76**	**570**
BW-9	3/30/2016	<1.0	190	<1.0	<1.5	190	<1.0	<1.0 [b]	<1.0	<10
	7/27/2016	<1.0	6.1	<1.0	<1.5	6.1	<1.0	<1.0 [b]	<1.0	<10
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	9/17/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	6/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	9/11/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	12/27/2020 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	3/20/2021 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-10	3/29/2016	<1.0	280	<1.0	<1.5	280	<1.0	<1.0 [b]	<1.0	<10
	7/27/2016	<1.0	33	<1.0	<1.5	33	<1.0	<1.0 [b]	<1.0	<10
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	9/17/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	6/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	9/11/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	12/27/2020 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	3/20/2021 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
MW-11	9/18/2019	**3,300**	5.0	280	**1,100**	4,685	<5.0	**5.0** [d]	**130**	**40**
	6/13/2020	**3,400**	8.9	300	**620**	4,328.9	<10	**2.9** [d]	**150**	**39**
	9/15/2020	**3,300**	14	300	520	4,134	<20	**1.2** [d]	**130**	**40**
	12/29/2020	**3,400**	5.1	280	450	4,135.1	<1.0	**0.93** [d]	**120**	**84**
	12/29/2020 [e]	**4,400**	2.8	310	46	4,758.8	<1.0	**0.30** [d]	**180**	**87**
	3/20/2021 [e]	**3,800**	<20	250	38	4,088	<20	**0.14** [d]	**200**	**42**
	12/12/2023 [f]	**3,200**	140	150	**910**	4,400	<20	**1.2** [d]	**220**	**51**
	3/28/2024	Well not sampled due to faulty pump; unable to collect with HydraSleeve								
	8/26/2024	Well not sampled due to faulty pump; unable to collect with HydraSleeve								
MW-11 (Deep HS)	6/13/2020	**4,200**	<10	370	150	4,720	<10	**2.1** [d]	**190**	**50**
	9/15/2020	**3,100**	<20	170	83	3,353	<20	**0.71** [d]	**150**	**36**

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
MW-11 (Shallow HS)	6/13/2020	**3,900**	<10	250	86	4,236	<10	**1.4** [d]	**190**	28
	9/15/2020	**3,300**	<20	230	100	3,630	<20	**0.74** [d]	**140**	**34**
	12/29/2020	**3,300**	2.9	150	24	3,476.9	<1.0	**0.11** [d]	**160**	**45.1**
MW-12	9/20/2019	**1,400**	27	9.4	200	1,636.4	<1.0	**0.78** [d]	**72**	6.0
	6/12/2020	**1,400**	<10	10	130	1,540	<10	**0.50** [d]	**85**	<100 [b]
	9/15/2020	**930**	<5.0	<5.0	78	1,008	<5.0	**0.38** [d]	**68**	<50 [b]
	12/28/2020 [e]	**460**	<2.0	<2.0	11	471	<2.0	**0.21** [d]	**68**	<20
	3/21/2021 [e]	**98**	<5.0	<5.0	<7.5	98	<5.0	**0.11** [d]	**44**	<50 [b]
	12/13/2023 [f]	**540**	<10	<10	42	582	<10	**1.2** [d]	**120**	<100 [b]
	3/26/2024 [f]	**44**	<10	<10	20	64	<10	**1.4** [d]	**89**	<100 [b]
	8/26/2024 [f]	**250**	<1.0	<1.0	50	300	1.5	**0.26** [d]	**77**	2.5
MW-13	9/21/2019	**97**	6.4	9.2	29	141.6	<1.0	0.037 [d]	**5.1**	<10
	6/12/2020	**79**	<2.0	4.4	13	96.4	<2.0	0.035 [d]	**6.6**	<20
	9/12/2020	**94**	<1.0	7.5	23	124.5	<1.0	0.039 [d]	**11**	<10
	12/28/2020 [e]	**22**	<1.0	2.6	2.5	27.1	<1.0	**0.079** [d]	**26**	<10
	3/20/2021 [e]	**64**	<1.0	2.8	1.8	68.6	<1.0	**0.090** [d]	**26**	2.0
	12/12/2023 [f]	**110**	<1.0	1.6	39	150.6	<1.0	**0.10** [d]	**76**	6.0
	3/26/2024 [f]	**190**	<2.0	<2.0	33	223	<2.0	**0.064** [d]	**110**	<20
	8/25/2024 [f]	2.3	<1.0	<1.0	21	23	<1.0	**0.061** [d]	**85**	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
MW-14	9/19/2019	4.0	15	2.8	15	36.8	<1.0	**0.050** [d]	<1.0	<10
	6/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	9/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0096 [d]	<1.0	<10
	12/27/2020 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	3/20/2021 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	12/14/2023 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	3/29/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	8/26/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
MW-14 (Deep HS)	6/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	9/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
MW-14 (Shallow HS)	6/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	9/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
MW-15	6/11/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	9/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	12/27/2020 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0096 [d]	<1.0	<10
	3/20/2021 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	12/14/2023 [e]	**11**	<1.0	<1.0	<1.5	11	<1.0	0.028 [d]	<1.0	<10
	3/29/2024 [e]	**33**	<1.0	<1.0	3.8	36.8	<1.0	**0.087** [d]	<1.0	<10
	8/26/2024	**28**	<1.0	<1.0	<1.5	28	<1.0	**0.13** [d]	1.1	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
MW-16	6/11/2020	**520**	8.7	42	140	710.7	<1.0	**0.82** [d]	**35**	3.2
	9/11/2020	**920**	11	34	300	1,265	<2.0	**0.66** [d]	**55**	7.5
	12/28/2020	**1,500**	7.3	49	380	1,936.3	<1.0	**0.52** [d]	**70**	18.1
	12/28/2020 [e]	**55**	<1.0	2.7	29	86.7	<1.0	**0.25** [d]	**30**	<10
	3/20/2021 [e]	**10**	<1.0	<1.0	2.6	12.6	<1.0	**0.30** [d]	**27**	<10
	12/12/2023 [e]	**1,500**	<1.0	<1.0	39	1,539	<1.0	**0.74** [d]	**77**	7.7
	3/26/2024 [e]	**640**	<2.0	<2.0	8.8	648.8	<2.0	**0.49** [d]	**97**	<20
	8/26/2024	Well not sampled due to faulty plumbing; unable to collect with HydraSleeve								
MW-17	6/11/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	9/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	12/27/2020 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	3/20/2021 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	12/14/2023 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	3/29/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0096 [d]	<1.0	<10
	8/26/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
RW-1	9/19/2019	**720**	800	47	430	1,997	<1.0	**6.4** [d]	**36**	10
	6/13/2020	**340**	39	18	51	448	<5.0	**0.22** [d]	<5.0 [b]	10
	9/15/2020	**650**	230	49	120	1,049	<2.0	**1.7** [d]	**22**	14
	12/28/2020 [e]	**5,500**	**3,300**	260	**2,000**	11,060	<1.0	**5.1** [d]	**31**	**161**

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
RW-1 (cont.)	3/21/2021 [e]	**3,000**	750	230	590	4,570	<2.0	**7.5** [d]	**57**	**123**
	12/13/2023 [f]	<2.0	<2.0	<2.0	6.0	6.0	<2.0	**1.1** [d]	**48**	<20
	3/27/2024 [f]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	**15**	<10
	8/26/2024	Well not sampled due to well pump and transducer issues; unable to collect with HydraSleeve								
RW-2	9/18/2019	**3,500**	**3,300**	210	**1,600**	8,610	<10	**74** [d]	**220**	**58**
	6/14/2020	**1,800**	**1,100**	130	470	3,500	<20	**4.8** [d]	<20 [b]	<200 [b]
	9/15/2020	**2,500**	**2,600**	180	**800**	6,080	<10	**2.6** [d]	**25**	**41**
	12/27/2020 [e]	**7,400**	**6,200**	380	**1,800**	15,780	<1.0	**31** [d]	**64**	**133**
	3/19/2021 [e]	Well not sampled due to presence of LNAPL								
	12/13/2023 [f]	**41**	73	<20	120	234	<20	**12** [d]	**20**	<200 [b]
	4/28/2024 [f]	**100**	690	130	**1,600**	2,520	<5.0	**16** [d]	**26**	**250**
	8/26/2024	Well not sampled due to well pump issues; unable to collect with HydraSleeve								
RW-3	9/20/2019	**4,100**	**5,100**	310	**2,300**	11,810	<10	**25** [d]	**130**	**58**
	6/13/2020	**3,800**	**2,300**	290	**2,100**	8,490	<20	**49** [d]	**180**	**76**
	9/16/2020	**4,000**	**2,900**	280	**1,900**	9,080	<20	**33** [d]	**190**	**68**
	12/28/2020	**3,000**	**2,500**	200	**1,200**	6,900	<1.0	**14** [d]	**94**	**90**
	12/28/2020 [e]	**2,000**	530	89	**690**	3,309	<2.0	**20** [d]	**84**	24
	3/21/2021 [e]	**2,900**	980	160	**930**	4,970	<20	**22** [d]	**110**	**44**
	12/13/2023 [f]	**320**	330	<20	250	900	<20	**8.0** [d]	**83**	<200 [b]

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
RW-3 (cont.)	3/26/2024 [f]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.36** [d]	2.7	<10
	8/30/2024 [f]	**7.6**	1.6	<1.0	<1.5	9.2	<1.0	<0.0091 [d]	2.4	<10
RW-4	9/19/2019	**690**	730	47	340	1,807	<1.0	**5.2** [d]	**28**	5.4
	6/12/2020	**1,500**	410	110	360	2,380	<5.0	**13** [d]	**100**	20
	9/12/2020	**1,400**	600	92	300	2,392	<10	**9.7** [d]	**91**	<100 [b]
	12/28/2020	**1,900**	**1,400**	160	**650**	4,110	<10	**8.8** [d]	**33**	27
	12/28/2020 [e]	**3,400**	**1,100**	220	**760**	5,480	<10	**10** [d]	**56**	**35**
	3/20/2021 [e]	**3,000**	**1,100**	200	**640**	4,940	<5.0	**7.4** [d]	**41**	**35**
	12/13/2023 [f]	**2,000**	**2,800**	160	**1,400**	6,360	<20	**47** [d]	**230**	**58**
	3/26/2024 [f]	**990**	960	27	560	2,537	<20	**33** [d]	**130**	<200 [b]
	8/26/2024	Well not sampled due to well pump issues; unable to collect with HydraSleeve								

Bold indicates that value equals or exceeds the New Mexico Water Quality Control Commission (NMWQCC) standard.
Pre-May 2, 2019 data reported by Brown Environmental, Inc. (BEI, 2016).

[a] Analyzed using U.S. Environmental Protection Agency (EPA) method 8260B, unless otherwise noted.

[b] Reporting limit is equal to or greater than the standard.

[c] Duplicate sample.

[d] Samples analyzed using EPA method 504.1.

[e] Sample collected using HydraSleeve sampling device.

[f] Sample collected from wellhead sample port using the installed remediation pump.

µg/L = Micrograms per liter
BTEX = Benzene, toluene, ethylbenzene, and total xylenes
MTBE = Methyl tertiary-butyl ether
EDB = 1,2-Dibromoethane
EDC = 1,2-Dichloroethane
LNAPL = Light nonaqueous-phase liquid
HS = HydraSleeve

Table 10. LNAPL Recovery from Site Wells

Date Bailed	Depth to Water [a] (feet btoc)	Depth to LNAPL (feet btoc)	Initial LNAPL Thickness (feet)	Depth to Water [b] (feet btoc)	Total Volume of Fluids Removed (gallons)	Volume of LNAPL Removed (gallons)	Cumulative Volume of LNAPL Removed (gallons)	Final Thickness of LNAPL (feet)
Cumulative volume of LNAPL recovered by DBS&A is approximately 3.8 gallons, as tabulated below.								
BW-5								
5/23/2019	329.35	327.58	1.77	328.02	7.16	1.95	1.95	0.26
9/20/2019	328.94	328.18	0.76	328.37	5.35	0.95	2.90	0.01
6/8/2020	329.65	329.07	0.58	329.22	4.27	0.46	3.36	0.00
9/16/2020	329.34	328.92	0.42	329.03	4.05	0.26	3.62	0.00
12/29/2020	329.20	329.06	0.14	329.10	4.11	0.07	3.69	0.01
3/20/2021	329.34	329.19	0.15	329.23	1.20	0.05	3.74	0.00
RW-2								
3/21/2021	330.07	329.72	0.35	329.81	1.11	0.07	0.07	0.01

[a] Depth to water (DTW) before correction for light nonaqueous-phase liquid (LNAPL) thickness.

[b] DTW corrected for LNAPL thickness using the following equation: DTW = DTW – (LNAPL thickness x 0.75).

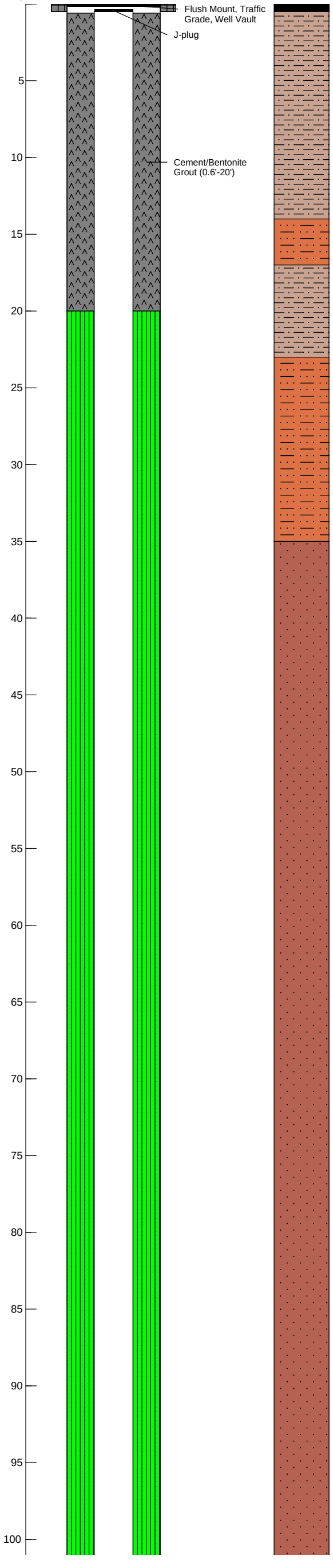
btoc = Below top of casing

Appendix A

Well Boring Logs

DBS&A
a Geo-Logic Company

S:\Projects\DB18.1157_Former_Y_Station\VR_Drawings\LogPlot



Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	0.5	100	0-15	NA	0-0.5	Asphalt.
				CL	0.5-14	Sandy clay - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, moderate to high plasticity, medium dense, slightly moist, odorless.
				CL		Sandy clay - as above.
				CL		Sancy clay - as above with calcium carbonate.
				SC	14-17	Clayey sand - dry, otherwise as above.
	0.0	100	15-25	SC		Clayey sand - as above with less calcium carbonate.
				CL	17-23	Sandy clay - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, moderate plasticity, medium dense, dry, odorless, trace calcium carbonate.
				SC	23-35	Clayey sand - increased calcium carbonate concentrations, otherwise as above.
	0.0	100	25-35	SC		Clayey sand - reddish yellow (5YR 6/6), loose to partially cemented, otherwise as above.
	0.3	100	35-45	SP	35-137	Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded, non-plastic, loose, dry, odorless, trace silt, calcium carbonate concretions.
	0.0	100	45-55	SP		Sand - as above.
				SP		Sand - as above with high amounts of calcium carbonate.
	1.3	100	55-65	SP		Sand - as above.
				SP		Caliche.
	0.6	100	65-75	SP		Sand - as above.
				SP		Sand - as above with lower amounts of calcium carbonate.
	0.0	100	75-85	SP		Clayey sand - reddish brown (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, low plasticity, loose, dry, odorless, trace calcium carbonate.
				SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.
	4.8	100	85-95	SP		Sand - as above.
				SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded, non-plastic, loose, dry, pulverized, odorless, trace silt.
				SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.
	0.3	100	95-105	SP		Sand - as above.
				SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded, non-plastic, loose, dry, pulverized, odorless, trace silt.
				SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.

Geologist: H. Barnes
Driller: Yellow Jacket Drilling
Date completed: 8/4/19

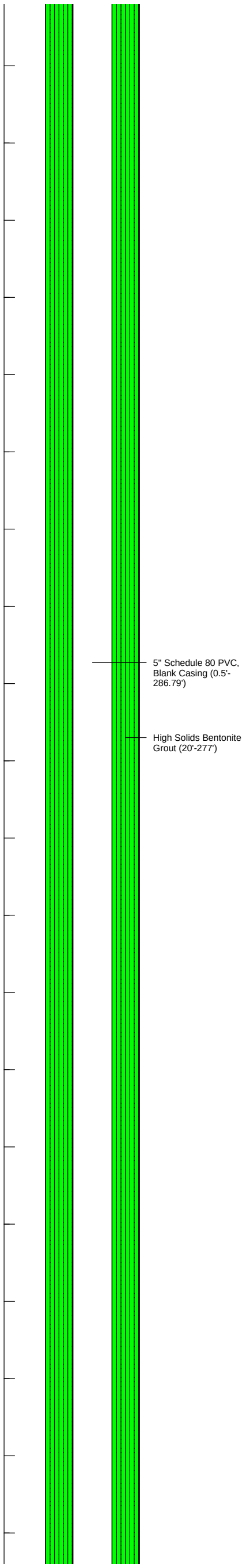
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 124529 Elevation: 4277.44
Easting: 884291.12

FORMER Y STATION
CLOVIS, NEW MEXICO
BW-7R

Daniel B. Stephens & Associates, Inc.
9/5/2019 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
					SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.
					SP		Sand - as above with increased calcium carbonate concentrations.
	105	0.0	100	105-115	SP		Sand - as above without calcium carbonate.
	110				SP		Sand - as above with calcium carbonate, loose to partially cemented.
					SP		Sand - as above, pinkish gray (7.5YR 7/2), calcium carbonate.
					SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.
	115	0.0	100	115-125	SP		Sand - as above, no calcium carbonate, light reddish brown (5YR 6/4), 2" layer light grey sand layer at 117' bgs.
	120						
	125	0.0	100	125-135	SP		Sand - as above.
	130						
	135	0.2	100	135-145	SP		Sand - as above.
					SM	137-145	Silty sand - pinkish white (5YR 8/2), fine grained, well sorted, rounded, loose, dry, calcium carbonate rich, pulvurized.
	140						
	145	0.0	100	145-155	SP	145-354	Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, little to no calcium carbonate.
	150						
	155	0.0	100	155-165	SP		Sand - as above.
					SP		Sand - as above with increased calcium carbonate content.
	160						
	165	0.0	100	165-175	SP		Sand - as above with little to no calcium carbonate content.
					SP		Sand - as above mottled with light gray (10YR 7/2).
	170				SP		Sand - as above with little to no calcium carbonate content.
	175	0.0	100	175-185	SP		Sand - as above.
					SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded, non-plastic, loose, dry, pulverized, odorless, trace silt.
					SP		Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, little to no calcium carbonate.
					SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded, non-plastic, loose, dry, pulverized, odorless, trace silt.
	180				SP		Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, little to no calcium carbonate.
	185	0.0	100	185-195	SP		Sand - as above.
	190						
					SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded, non-plastic, loose, dry, pulverized, odorless, trace silt.
					SP		Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, little to no calcium carbonate.
	195	0.0	100	195-205	SP		Sand - as above.
	200						

Geologist: H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 7/20/19
Well completion date: 8/4/19

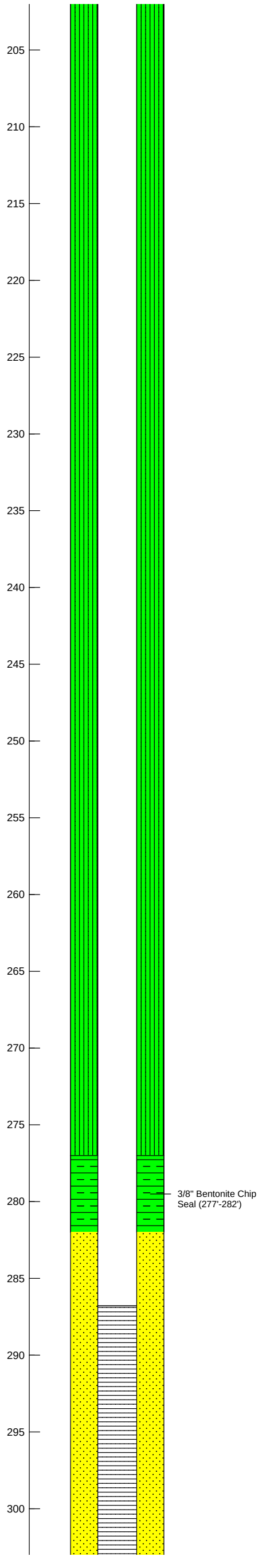
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245210.02 Elevation: 4277.44
Easting: 884291.06

FORMER Y STATION
CLOVIS, NEW MEXICO
BW-7R

Daniel B. Stephens & Associates, Inc.
9/5/2019 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	205	4.4	100	205-215	SP		Sand - as above.
	210				SP		Sand - as above, pinkish gray, calcium carbonate rich.
					SP		Sand - as above, reddish yellow (5YR 6/6), no calcium carbonate.
					SP		Sand - as above, pinkish gray, calcium carbonate rich.
					SP		Sand - as above, reddish yellow (5YR 6/6), no calcium carbonate.
	215	2.1	100	215-225	SP		Sand - as above.
	220						
	225	1.0	100	225-235	SP		Sand - as above.
	230				SP		Sand - as above.
	235	0.7	100	235-245	SP		Sand - as above with calcium carbonate.
	240						
	245	1.1	100	245-255	SP		Sand - as above with little to no calcium carbonate.
	250						
	255	0.7	100	255-265	SP		Sand - as above.
	260						
	265	6.3	100	265-275	SP		Sand - as above.
	270						
	275	4.7	100	275-285	SP		Sand - as above with increased calcium carbonate.
	280						
	285	5.3	100	285-295	SP		Sand - as above.
	290						
	295	5.8	100	295-305	SP		Sand - as above but slightly moist.
	300						

Geologist: H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 7/20/19
Well completion date: 8/4/19

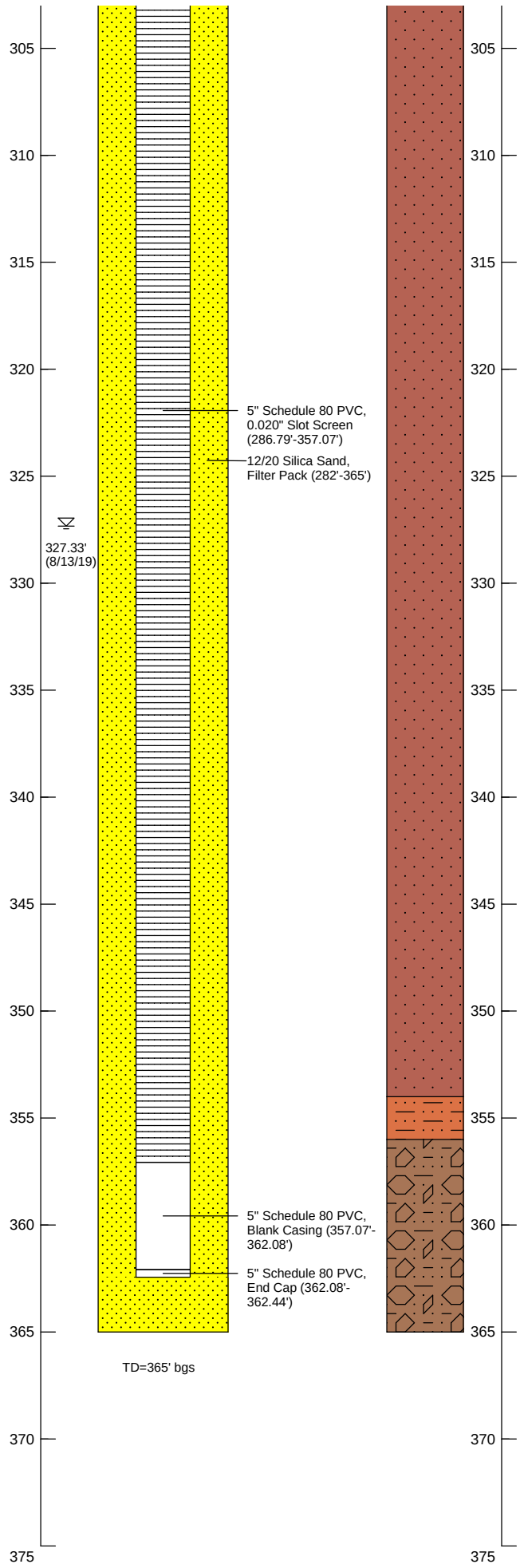
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245210.02 Elevation: 4277.44
Easting: 884291.06

FORMER Y STATION
CLOVIS, NEW MEXICO
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Daniel B. Stephens & Associates, Inc.
9/5/2019 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	1.7	100	305-315	SP		Sand - as above, dry.
	2.2	100	315-325	SP		Sand - as above but slightly moist and trace silt.
	15.5	100	325-335	SP		Sand - as above. Saturated at 330'.
	NA	100	335-345	SP		Sand - as above, saturated.
				SP		Sand - as above with trace low plasticity clay.
	NA	100	345-355	SP		Sand - as above.
				SP		Sand - as above, loose to partially cemented with calcium carbonate, dry.
				SC	354-356	Clayey sand - yellowish red (5YR 4/6), fine grained, well sorted, rounded, low plasticity, medium dense, slightly moist, no odor.
	NA	100	355-365	SC		Clayey sand - as above.
				SW-SC	356-356.5	Wackestone.
				SW	356.5-365	Gravelly sand with clay - light reddish brown (5YR 6/3), fine grained, poorly sorted, subrounded, fine gravels, low plasticity, loose, dry, no odor, calcium carbonate rich.

Geologist: H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 7/20/19
Well completion date: 8/4/19

Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245210.02 Elevation: 4277.44
Easting: 884291.06

FORMER Y STATION
CLOVIS, NEW MEXICO
BW-7R

Daniel B. Stephens & Associates, Inc.
9/5/2019 JN DB18.1157.00

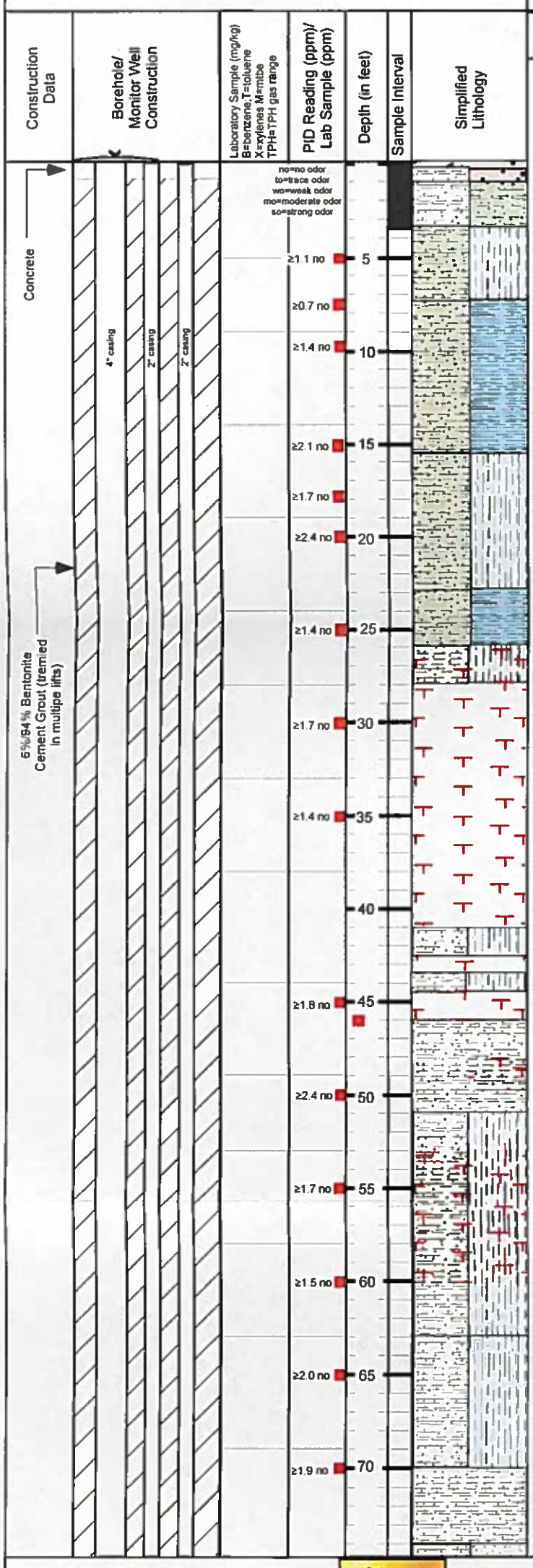
ALLSUPS #320

CLIENT: Allsups Petroleum, Inc.

Borehole ID: BW-8

DATE OF DRILLING:	11/10-14/15
LOGGED BY:	WJB
DRILLER:	John Chavez/Yellowjacket
BOREHOLE DIAMETER:	11 3/4"
DRILLING METHOD:	ARCH
SAMPLING METHOD:	Cuttings/Split Spoon
TOP OF CASING ELEV:	na
DEPTH TO WATER:	~327'
TOTAL DEPTH:	356'
SHALLOW WELL	2" Sched 80 PVC; Screen 115'-175'
INTERMEDIATE WELL	2" Sched 80 PVC; Screen 200'-260'
DEEP WELL	4" Sched 80 PVC; Screen 287'-347'
SURFACE COMPLETION:	18"X18" Manway w/Concrete Pad





USCS - LITHOLOGIC DESCRIPTION

Surface Conditions: 0-0.3' Saw cut concrete.

0.3'-3.5' Cuttings/Posthole 0.3'-1.0' **(SM/SW)** with **(SC)** Silty fine to medium sand with minor gravel and clay/silt. 1.0'-3.5' **(SM/SC)** Clayey silty very fine sand, weakly plastic, brown **(10YR)**, soft, slightly moist, no apparent hydrocarbon odor.

3.5'-7.5 Cuttings **(SC/ML)** Light tan-brown silty clayey very fine sand, plastic, soft, slightly moist, calcium carbonate, no apparent hydrocarbon odor.

7.5'-15.5' Cuttings **(SC/CL)** Light brown **(10YR)** silty sandy clay, plastic, slightly moist, no apparent hydrocarbon odor.

15.5'-23.0' Cuttings **(SC/ML)** Weakly cemented with calcium carbonate, slightly moist, no apparent hydrocarbon odor.

23.0'-26.0' Cuttings **(SC/CL)** Light brown **(10YR)** soft, plastic, silty very fine sand-clay mixture, slightly moist, no apparent hydrocarbon odor.

26.0'-28.0' Cuttings **(SM/ML)** silt-very fine sand with Stage 3 caliche, hard drilling, light tan-white, no apparent hydrocarbon odor.

28.0'-41.0' Cuttings **(Caliche)**, Stage 3+ to 4, dense, massive, hard drilling. light tan-white.

<11/10/15 19:50 Stopped Drilling at 40'.>
<11/11/15 7:20 Blowdown - 1.1 ppm/v, no apparent hydrocarbon odor.>

41.0'-46.0' Cuttings **(SM/ML)** silt-very fine sand Stage 3+ calcium carbonate with interbeds of Stage 4, slightly moist.

46.0'-51.0' Cuttings **(SM)** **(5YR 6/4)** Light red brown, silty very fine sand, unconsolidated at top with localized calcium carbonate nodules, no apparent hydrocarbon odor, slightly moist.

51.0'-63.0' Cuttings **(SM/ML)** with Stage 2 to Stage 3 -3+ calcium carbonate zones, light tan-white pink, **(5YR)** slightly moist, no apparent hydrocarbon odor.

63.0'-70.0' Cuttings **(SM/ML)** Silt-very fine sand, light tan-brown **(10YR)** localized minor calcium carbonate, slightly moist, no apparent hydrocarbon odor.

70.0'-74.0' Cuttings **(SM)** silty very fine sand, light brown **(7.5YR)**, unconsolidated, slightly moist.

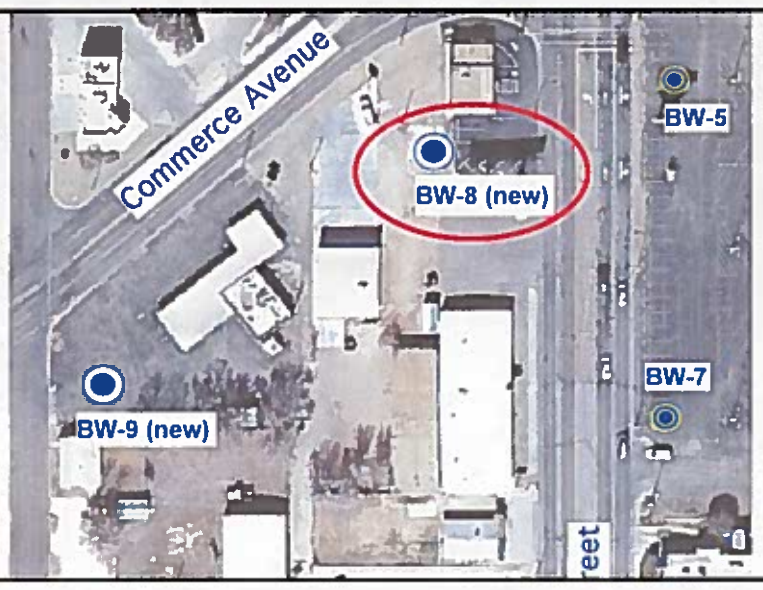
BROWN ENVIRONMENTAL, INC
P.O. BOX 886 PLACITAS, NM 87043

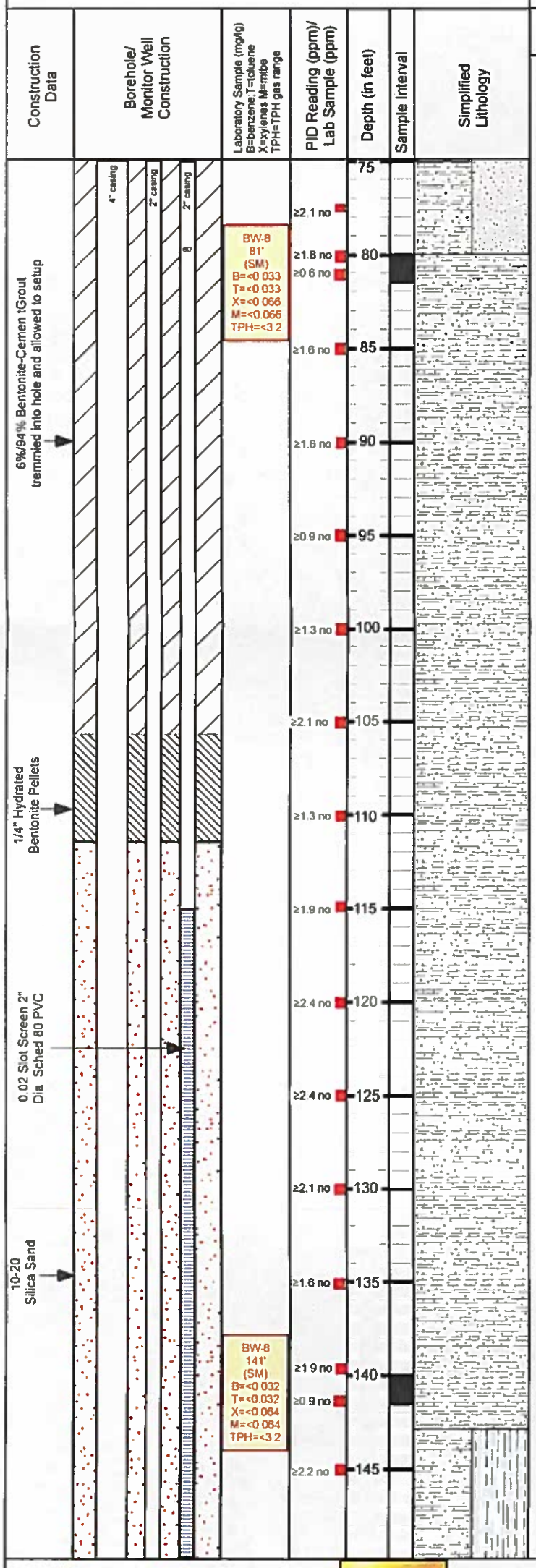
ALLSUPS #320

CLIENT: Allsups Petroleum, Inc.

Borehole ID: BW-8

DATE OF DRILLING:	11/10-14/15
LOGGED BY:	WJB
DRILLER:	John Chavez/Yellowjacket
BOREHOLE DIAMETER:	11 3/4"
DRILLING METHOD:	ARCH
SAMPLING METHOD:	Cuttings/Split Spoon
TOP OF CASING ELEV:	na
DEPTH TO WATER:	~327'
TOTAL DEPTH:	356'
SHALLOW WELL	2" Sched 80 PVC; Screen 115'-175'
INTERMEDIATE WELL	2" Sched 80 PVC; Screen 200'-260'
DEEP WELL	4" Sched 80 PVC; Screen 287'-347'
SURFACE COMPLETION:	18"X18" Manway w/Concrete Pad





USCS - LITHOLOGIC DESCRIPTION

74.0'-80.0' Cuttings (SM/SP) Fine to medium sand with trace silt - well sorted, slightly moist, unconsolidated no apparent hydrocarbon odor.

<**10:32 @ 80'** Let hole sit until 11:40 and collected split spoon drive sample for PID and lab analysis.>

80.0'-81.5' Split Spoon 1.5' sample. 0.0'-1.5' (SM) Silty very fine to fine sand, unconsolidated, slightly moist, no apparent hydrocarbon odor.

<Blowdown on hole at 11:45 = 1.2 ppm/v, no apparent hydrocarbon odor.>

81.5'-143' Cuttings (SM) Silty-very fine sand. Light reddish-brown (7.5YR) unconsolidated, slightly moist, well sorted, no apparent hydrocarbon odor.

<13:39 Let hole equilibrate at 140' - collected split spoon at 15:10.>

140.0'-141.5' Split Spoon 1.5' sample. (SM) (7.5YR) Very fine to fine sand with minor silt, unconsolidated to weakly disseminated calcium carbonate cemented, slightly moist, no apparent hydrocarbon odor.

143'-152' Cuttings (SM/ML) Silt content higher than surrounding with very fine sand, unconsolidated, no apparent hydrocarbon odor, slightly moist.

<15:30-16:45 Rig shutdown @ 150' for 75 minutes. Blowdown - 2.9 ppm/v).

BROWN ENVIRONMENTAL, INC

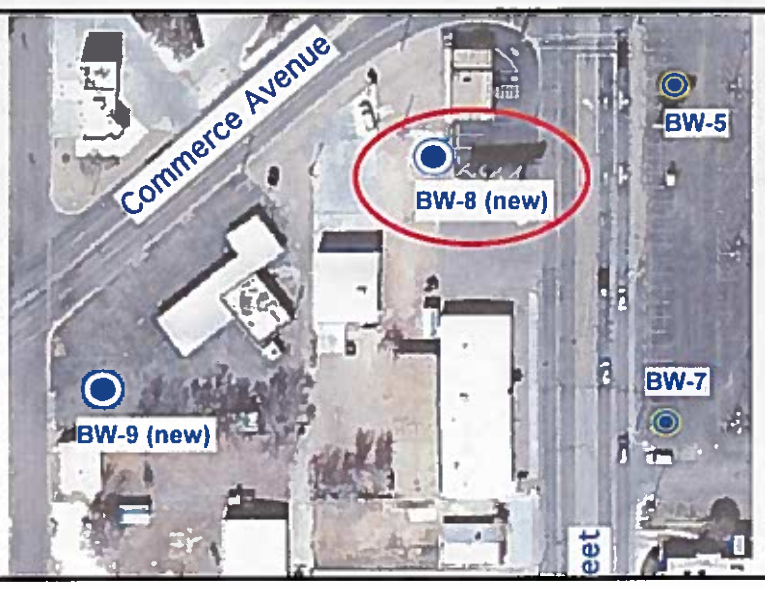
P.O. BOX 886 PLACITAS, NM 87043

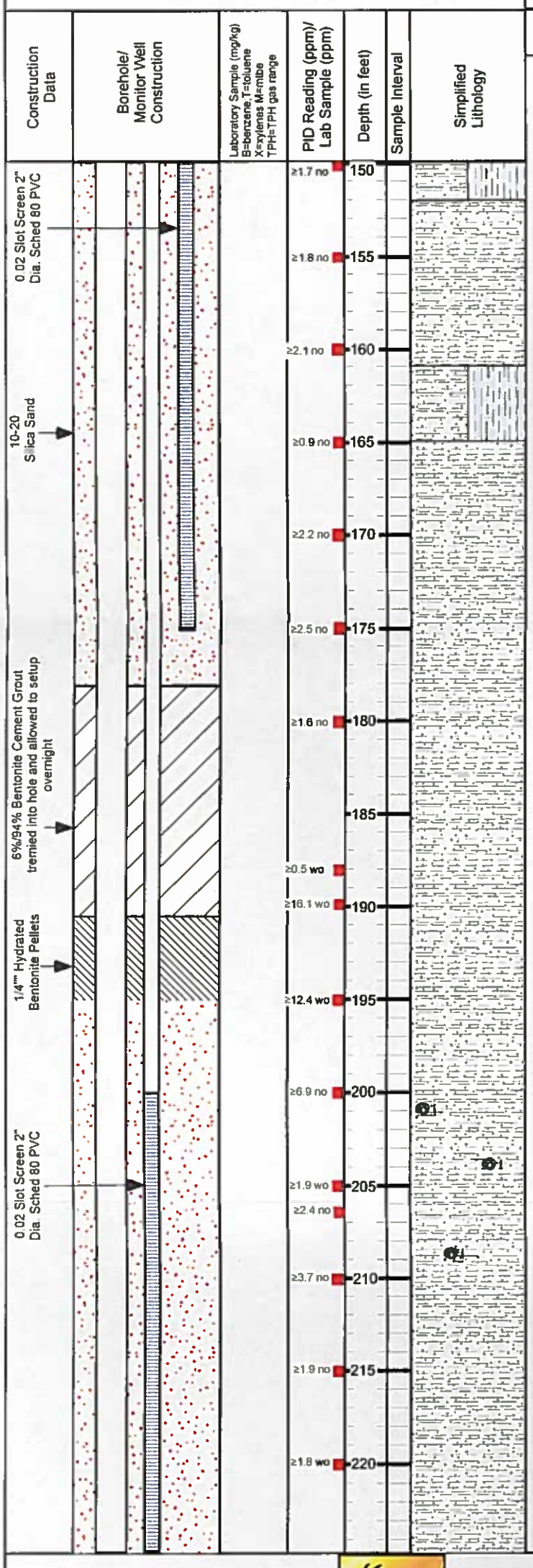
ALLSUPS #320

CLIENT: Allsups Petroleum, Inc.

Borehole ID: BW-8

DATE OF DRILLING:	11/10-14/15
LOGGED BY:	WJB
DRILLER:	John Chavez/Yellowjacket
BOREHOLE DIAMETER:	11 3/4"
DRILLING METHOD:	ARCH - Stratex / Air Rotary
SAMPLING METHOD:	Cuttings/Split Spoon
TOP OF CASING ELEV:	na
DEPTH TO WATER:	~327'
TOTAL DEPTH:	356'
SHALLOW WELL	2" Sched 80 PVC; Screen 115'-175'
INTERMEDIATE WELL	2" Sched 80 PVC; Screen 200'-260'
DEEP WELL	4" Sched 80 PVC; Screen 287'-347'
SURFACE COMPLETION:	18"X18" Manway w/Concrete Pad





USCS - LITHOLOGIC DESCRIPTION

152'-161' Cuttings (SM) Silty very fine to fine sand, (7.5YR) brown, slightly moist, unconsolidated, no apparent hydrocarbon odor.

161'-165' Cuttings (SM/ML) As above, silt - very fine sand (7.5YR).

165'-238' Cuttings (SM) (7.5YR) Silty very fine to fine sand, unconsolidated, slightly moist, no apparent hydrocarbon odor.

<188' Rig breakdown, hole sat overnight, blowdown at 10:50 = 0.5 ppm/v, no apparent hydrocarbon odor.>

~200 to 210', minor calcium carbonate cemented, small sandstone nodules.

210'-240' Occasional weathered turpene-like hydrocarbon odor in off gas from hole/cyclone 2-10 ppm/v.

BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043

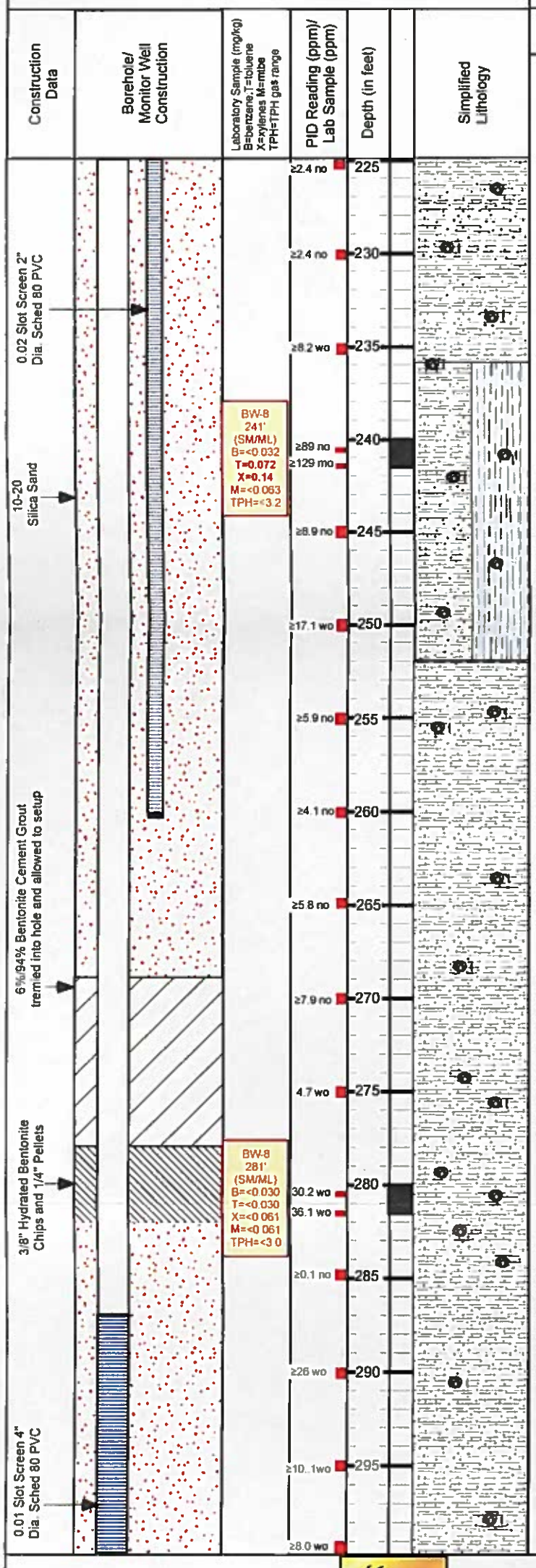
ALLSUPS #320

CLIENT: Allsups Petroleum, Inc.

Borehole ID: BW-8

DATE OF DRILLING:	11/10-14/15
LOGGED BY:	WJB
DRILLER:	John Chavez/Yellowjacket
BOREHOLE DIAMETER:	11 3/4"
DRILLING METHOD:	ARCH
SAMPLING METHOD:	Cuttings/Split Spoon
TOP OF CASING ELEV:	na
DEPTH TO WATER:	~327'
TOTAL DEPTH:	356'
SHALLOW WELL	2" Sched 80 PVC; Screen 115'-175'
INTERMEDIATE WELL	2" Sched 80 PVC; Screen 200'-260'
DEEP WELL	4" Sched 80 PVC; Screen 287'-347'
SURFACE COMPLETION:	18"X18" Manway w/Concrete Pad





USCS - LITHOLOGIC DESCRIPTION

236'-252' (SM/ML) (7.5YR) silt-very fine sand, well sorted, slightly moist with minor calcium carbonate cemented sandstone (SAS) nodules.

<12:30 Hole at 240', stop for lunch and to let hole equilibrate. 14:00 Collected split spoon at 240'-241.5', weathered hydrocarbon odor.>

240.0'-241.5' Split Spoon 1.4' sample. (SM/ML) (7.5YR) Light brown silt to very fine sand, well sorted, slightly moist with ~2-3% calcium carbonate cemented (SAS) nodules, degraded hydrocarbon odor.

<245' Rig down for 25 minutes, blowdown = 68 ppm/v, moderate weathered hydrocarbon odor.>

252'-309' Cuttings (SM) Silty very fine to fine sand (5YR to 7.5 YR) Reddish-light brown, occasional (SAS) concretions, slightly moist.

<270' measured vapor levels in adjacent deep wells BW-4d and BW-5d= 0.01 and 0.07 ppm/v, respectively. Wells under negative pressure.>

280.0' -281.5' Split Spoon 1.4' sample. (SM) (7.5YR) Light brown, silty very fine to fine sand with several prominent concretions, slightly moist, weak hydrocarbon odor, localized (SM/ML) finer grained silt-very fine sand intervals.

(5YR) Light reddish brown below ~300' depth.

BROWN ENVIRONMENTAL, INC

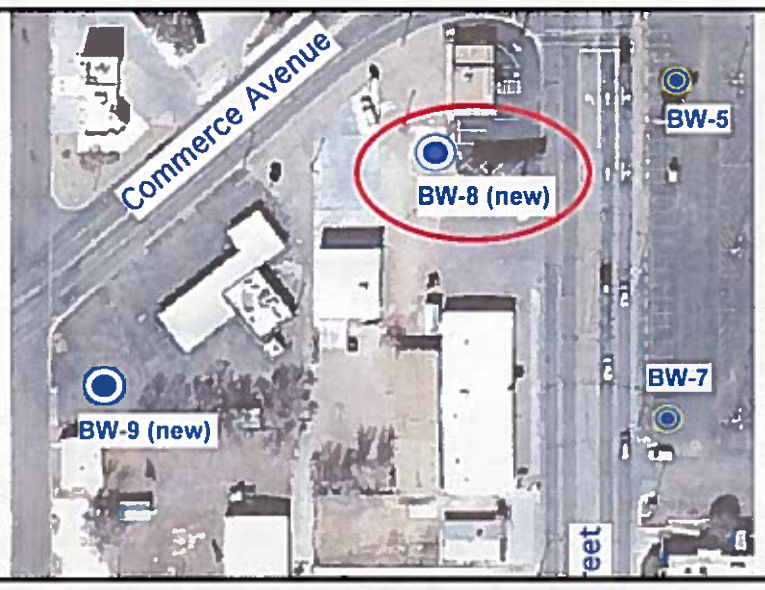
P.O. BOX 886 PLACITAS, NM 87043

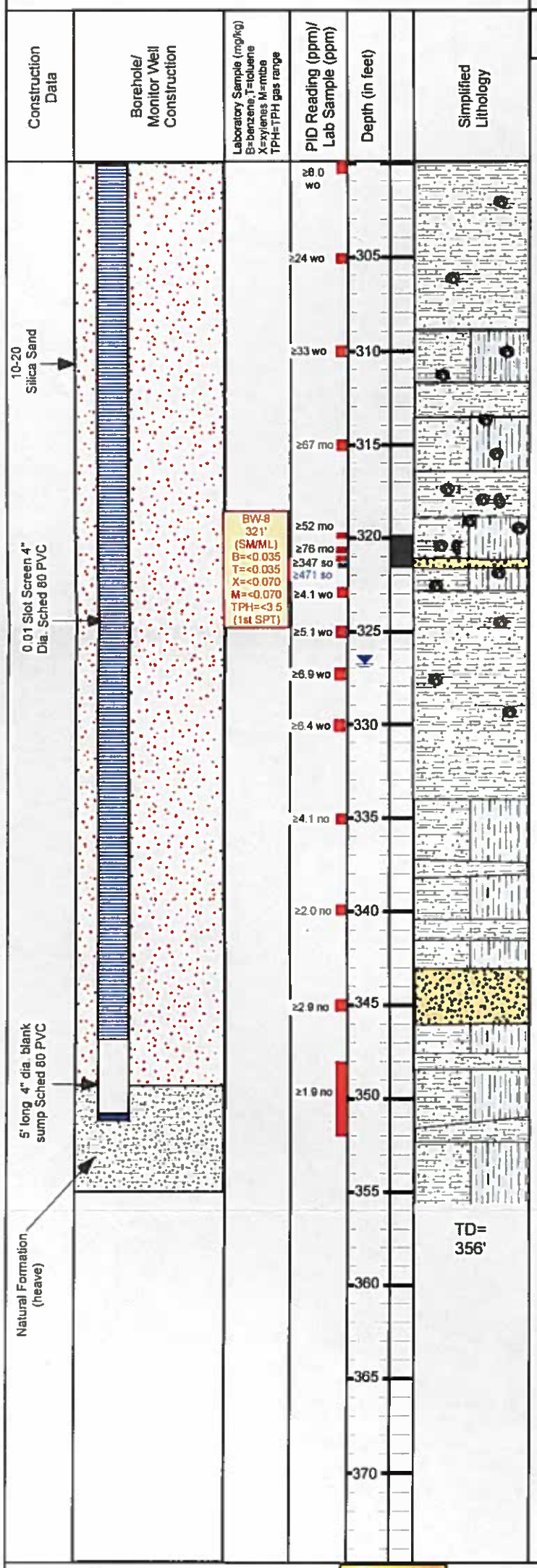
ALLSUPS #320

CLIENT: Allsups Petroleum, Inc.

Borehole ID: BW-8

DATE OF DRILLING:	11/10-14/15
LOGGED BY:	WJB
DRILLER:	John Chavez/Yellowjacket
BOREHOLE DIAMETER:	11 3/4"
DRILLING METHOD:	ARCH - Stratex / Air Rotary
SAMPLING METHOD:	Cuttings/Split Spoon
TOP OF CASING ELEV:	na
DEPTH TO WATER:	~327'
TOTAL DEPTH:	356'
SHALLOW WELL	2" Sched 80 PVC; Screen 115'-175'
INTERMEDIATE WELL	2" Sched 80 PVC; Screen 200'-260'
DEEP WELL	4" Sched 80 PVC; Screen 287'-347'
SURFACE COMPLETION:	18"X18" Manway w/Concrete Pad





USCS - LITHOLOGIC DESCRIPTION

309'-323' Cuttings (SM) silty fine sand with (SM/ML)silt-very fine sand intebeds, gradational contacts, (5YR) red-dish brown, slightly moist, degraded hydrocarbon odor, concretions common-especially in lower 5', possible thin laminar calcium carbonate cemented (SAS) sandstone zones.

320.0'-321.5' Split Spoon 1st sample collected 11/12/15 at 19:02 1.5' sample. 0.0'-1.5' (ML/SM) Silt-very fine sand (7.5YR) light reddish brown, unconsolidated, slightly moist with moderate highly weathered hydrocarbon odor (more volatile compounds partially stripped out from drilling procedure). Several 1-2" calcium carbonate cemented (SAS) nodules.

Stopped drilling at 320' 11/12/15 at 19:02, let hole sit overnight-collected 2nd split spoon from same depth and continued drilling to total depth.

320.0'-321.5' Split Spoon 2nd sample collected 11/13/15 at 8:35 - refusal 2 times - calcium carbonate zone, dense, hard, not enough sample for lab - PID =471 ppm/v, moderate to strong hydrocarbon odor, ~1" (SM/ML) in spoon. Note: borehole under vacuum - atmospheric air going into borehole.

323'-334' Cuttings (SM) (5YR) Reddish-brown silty very fine to fine sand with some concretions but less than above, moist below ~325', degraded hydrocarbon odor, present.

334'-343' Cuttings (SM/ML) Very fine to fine sand-silt, moist, 5YR) red-brown, weathered hydrocarbon odor at top with localized (SM) silty very fine to fine sand intervals (borehole not making much water - having to add water to retrieve cuttings).

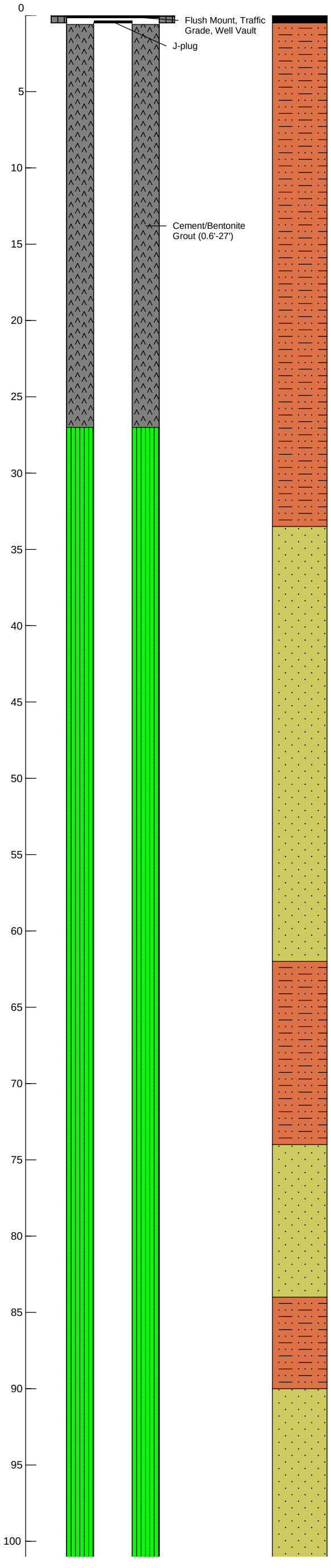
343'-346' Cuttings Very hard zone, very fine to fine grained sandstone (SAS) light tan-brown (7.5YR) calcium car-bonate cemented.

346'-356' Cuttings Poor cuttings return - soupy, (ML/SM) silt-very fine sand, (7.5) light brown, no apparent hydro-carbon odor, water saturated; likely interbedded (SM), coarse grained zones as above.

BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	0-15	NA	0-0.5	Asphalt
	0.0			SC	0.5-33.5	Clayey sand - dark brown (7.5YR 3/3), fine grained, well sorted, subrounded to subangular, moderate to high plasticity, soft, slightly moist, odorless.
				SC		Clayey sand - as above.
				SC		Clayey sand - strong brown (7.5YR 5/6), fine grained, well sorted, subrounded to subangular, moderate plasticity, stiff, dry, mottled with Caliche - pink (7.5YR 8/3), fine to medium grained, moderately well sorted, rounded to subrounded, hard, moderately
	0.0			SC		Clayey sand - same as above.
		100	15-25	SC		Clayey sand - same as above.
	0.3			SC		Clayey sand - increased caliche, otherwise as above.
		100	25-35	SC		Caliche - pink (5YR 7/4), fine grained, well sorted, subangular, low plasticity, loose to somewhat consolidated, dry, odorless.
	0.0			SC		Caliche - as above.
				SP	33.5-62	Sand - yellowish red (5YR 5/8), fine grained, well sorted, rounded to subrounded, non-plastic, loose, dry, odorless.
		100	35-45	SP		Sand - caliche stringers - otherwise as above.
	0.0			SP		Sand - as above.
				SP		Sand - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, non-plastic, loose, dry, calcium carbonate , odorless.
		100	45-55	SP		Sand - as above.
	0.0			SP		Sand - pink (7.5YR 7/4), fine grained, well sorted, subangular, non-plastic, loose, dry, increased calcium carbonate, odorless.
				SP		Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded, non-plastic, loose, dry, calcium carbonate.
		100	55-65	SP		Sand - as above.
	0.0			SP		Sand - as above.
				SC	62-74	Caliche - Sandstone - pinkish gray (7.5YR 7/2), fine grained, well sorted, subangular, calcium carbonate cemented, dry, odorless. (Very hard drilling).
		100	65-75	SC		Caliche - as above.
	0.0			SC		Caliche - as above (less difficult drilling).
				SP	74-84	Sand - pink (7.5YR 7/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.
		10	75-85			No recovery.
	0.0					No recovery.
				SC	84-90	Caliche - sandstone - pinkish gray (7.5YR 7/2), fine grained, well sorted, subangular, calcium carbonate cement, dry, odorless. (very hard drilling - core pulverized).
		50	85-95			No recovery.
	1.7			SP	90-173	Sand - light brown (7.5YR 6/4), fine grained, well sorted, subangular to angular, non-plastic, loose, dry, odorless, minor calcium carbonate.
		100	95-105	SP		Sand - no calcium carbonate, otherwise as above.
	0.1			SP		Sand - as above.

Geologist: P. Feltman and J. Fisher
Driller: Yellow Jacket Drilling
Drilling start date: 5/29/19
Well completion date: 6/8/19

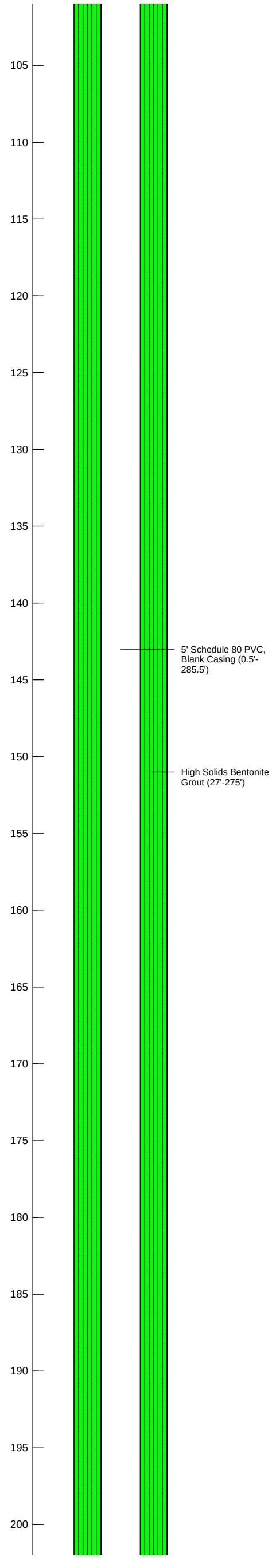
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244812.45 Elevation: 4274.64
Easting: 884412.98

FORMER Y STATION
CLOVIS, NEW MEXICO
MW-11

Daniel B. Stephens & Associates, Inc.
8/25/2019 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	105		100	105-115	SP		Sand with clay - pink (7.5YR 7/4), fine grained, well sorted, subangular to angular, low plasticity, loose, dry, odorless. (water added for drilling).
	110	6.0			SP		Sand - as above.
	115		100	115-125	SP		Sand - light brown (7.5YR 6/3), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry.
	120	0.8			SP		Sand - as above.
	125		100	125-135	SP		Sand - as above.
	130	0.4			SP		Sand - as above.
	135		100	135-145	SP		Sand - as above.
	140	1.0			SP		Sand - calcium carbonate, otherwise as above. (Driller reports hard drilling)
	145		100	145-155	SP		Sand - light brown (7.5YR 6/3), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry.
	150	0.4			SP		Sand - as above.
	155		100	155-165	SP		Sand - as above.
	160	3.3			SP		Sand - as above.
	165		100	165-175	SP		Sand with clay - brown (7.5YR 5/4), fine grained, well sorted, subangular to angular, low to moderate plasticity, loose, dry, odorless.
	170	0.1			SP		Sand - as above.
					SM	173-188.5	Silty sand - pink (7.5YR 7/4), fine grained, well sorted, subrounded, non-plastic, loose, slightly moist, odorless.
	175		100	175-185	SM		Silty sand - subrounded to angular, otherwise as above.
	180	0.5			SM		Silty sand - as above.
	185		100	185-195	SM		Silty sand - as above.
					SM		Silty sand - very dark grayish brown (10YR 3/2), fine grained, well sorted, subrounded to subangular, low plasticity, possibly cemented (pulverized), slightly moist, odorless, no calcium carbonate.
					SP	188.5-360	Sand - light brown (7.5YR 6/4), fine grained, well sorted, subangular, non--plastic, loose, slightly moist, odorless.
	190	0.0			SP		Sand - as above.
	195		100	195-205	SP		Sand - as above.
	200	0.3			SP		Sand - as above.

Geologist: P. Feltman and J. Fisher
Driller: Yellow Jacket Drilling
Drilling start date: 5/29/19
Well completion date: 6/8/19

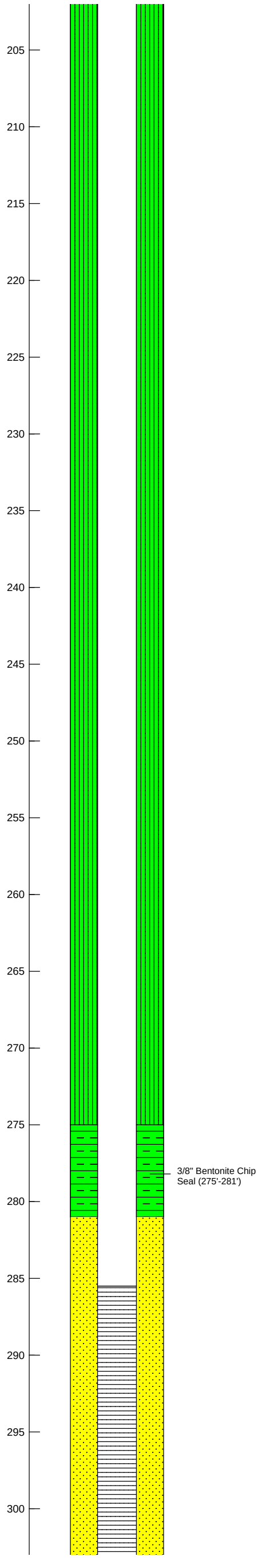
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244812.45 Elevation: 4274.64
Easting: 884412.98

FORMER Y STATION
CLOVIS, NEW MEXICO
MW-11

Daniel B. Stephens & Associates, Inc.
8/25/2019 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
205		100	205-215	SP		Sand - as above.
210	0.5			SP		Sand - as above.
215		100	215-225	SP		Sand - as above.
220	0.7			SP		Sand - as above.
				SP		Sand with clay - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, low plasticity, loose, lightly moist, odorless.
				SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, slightly moist, odorless.
225		100	225-235	SP		Sand - as above.
230	1.2			SP		Sand - with CaCO3 concretions, otherwise as above.
235		100	235-245	SP		Sand - with CaCO3 concretions as above.
240	1.3			SP		Sand - with CaCO3 concretions as above.
				SP		Sand - with CaCO3 concretions - pinkish gray (5YR 7/2), fine grained, well sorted, rounded, dry, odorless.
245		100	245-255	SP		Sand with CaCO3 concretions - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, slightly moist, odorless.
				SP		Sand with clay - pinkish white (5YR 8/2), fine grained, well sorted, rounded, low plasticity, CaCO3 (caliche), dry, odorless.
				SP		Sand with CaCO3 concretions - light brown (7.5YR 6/4), fine grained, well sorted, subroundd to subangular, non-plastic, slightly moist, odorless.
250	0.1			SP		Sand with CaCO3 concretions - as above.
255		100	255-265	SP		Sand with CaCO3 concretions - as above.
260	0.0			SP		Sand - light brown (7.5YR 6/4), fine rained, well sorted, subrounded to subangular, non-plastic, loose, slghtly moist, odorless.
				SP		Sand with CaCO3 concretions - otherwise as above.
265		100	265-275	SP		Sand with CaCO3 concretions - as above.
270	0.3			SP		Sand with CaCO3 concretions - as above.
275		100	275-285	SP		Sand with CaCO3 concretions - as above.
280	1.7			SP		Sand with CaCO3 concretions - as above.
285		100	285-295	SP		Sand with CaCO3 concretions - as above.
290	0.0			SP		Sand with CaCO3 concretions - as above.
295		100	295-305	SP		Sand with CaCO3 concretions - as above.
300	0.0			SP		Sand with CaCO3 concretions - as above.

Geologist: P. Feltman and J. Fisher
Driller: Yellow Jacket Drilling
Drilling start date: 5/29/19
Well completion date: 6/8/19

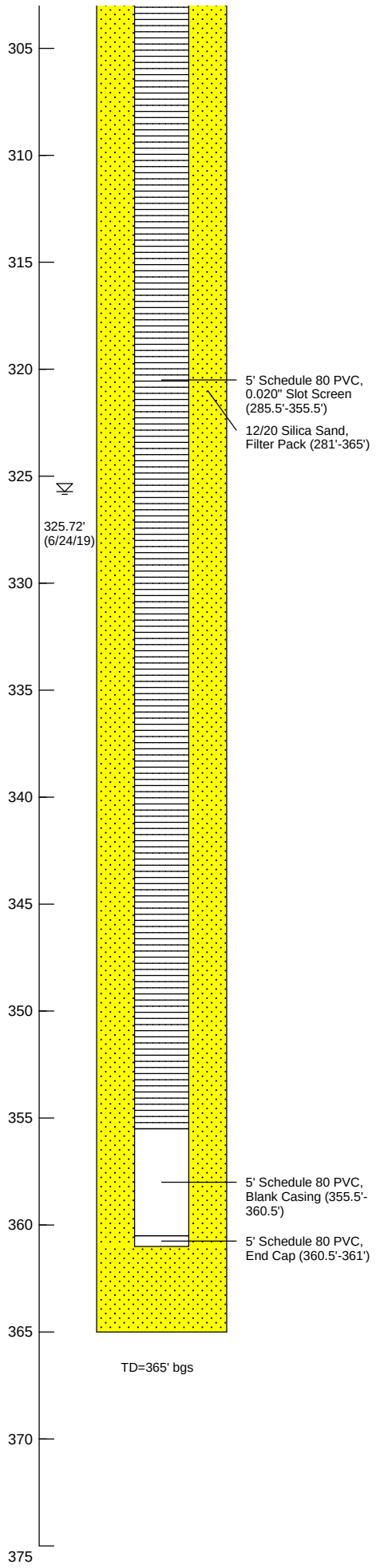
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244812.45 Elevation: 4274.64
Easting: 884412.98

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CLOVIS, NEW MEXICO
MW-11

Daniel B. Stephens & Associates, Inc.
8/25/2019 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	305-315	SP		Sand with CaCO3 concretions - as above.
	0.3			SP		Sand with CaCO3 concretions - as above.
		100	315-325	SP		Sand with CaCO3 concretions - as above, damp to moist, no HC odor.
	3.5			SP		Sand with CaCO3 concretions - as above, moist, no HC odor.
		100	325-335	SP		Sand with CaCO3 concretions - as above, moist, no HC odor.
	257.6			SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
		100	335-345	SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
	5.6			SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
		100	345-355	SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
	3.3			SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
		100	355-365	SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
				SW-SC	360-365	Gravelly sand with clay and cobbles - light brown (7.5YR 6/4), fine to medium grained, moderately well sorted, loose, granitic gravels and cobbles up to 2.5", wet, no HC odor.

Geologist: P. Feltman and J. Fisher
Driller: Yellow Jacket Drilling
Drilling start date: 5/29/19
Well completion date: 6/8/19

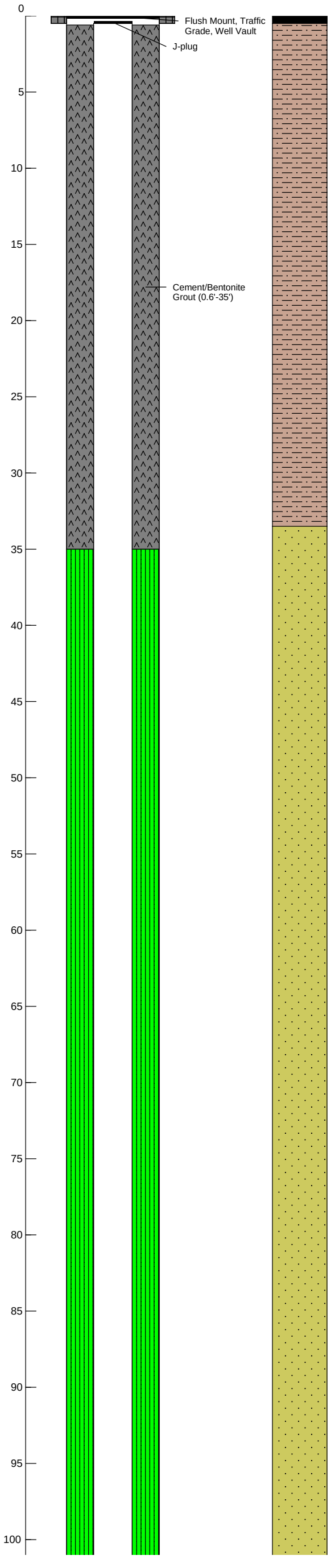
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244812.45 Elevation: 4274.64
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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	0-15	NA	0-0.5	Asphalt.
	0.0			CL	0.5-33.5	Sandy clay - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded, moderate to high plasticity, stiff, dry, odorless, calcium carbonate reaction.
				CL		Sandy clay - same as above.
	0.0	100	15-25	CL		Sandy clay - same as above.
	0.0			CL		Sandy clay - same as above.
		100	25-35	CL		Sandy clay - same as above.
	0.2			CL		Sandy clay - same as above.
				CL		Sandy clay (caliche) - pinkish white (7.5YR 8/2), fine grained, well sorted, subrounded to subangular, moderate plasticity, stiff, sry, odorless.
				SP	33.5-167	Sand - strong brown (7.5YR 5/6), fine grained,well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, partially cemented with calcium carbonate.
		100	35-45	SP		Sand - as above.
	0.0			SP		Sand - as above.
		100	45-55	SP		Sand - as above.
	0.7			SP		Sand - light reddish brown (5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, calcium carbonate cement and concretions.
		100	55-65	SP		Sand - as above.
	0.1			SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular,non-plastic, loose, dry, odorless, calcium carbonate concretions.
		100	65-75	SP		Sand - as above.
	0.3			SP		Sand - as above.
		100	75-85	SP		Sand - as above.
	4.9			SP		Sand - as above.
				SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded to subangular, non-plastic, possibly cemented (hard drilling), pulverized, dry, odorless.
		100	85-95	SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular,non-plastic, loose, dry, odorless, calcium carbonate concretions.
	2.4			SP		Sand - as above.
		100	95-105	SP		Sand - as above.
	2.8			SP		Sand - as above.

Geologist: P. Feltman and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 7/9/19 Well completion date: 7/20/19

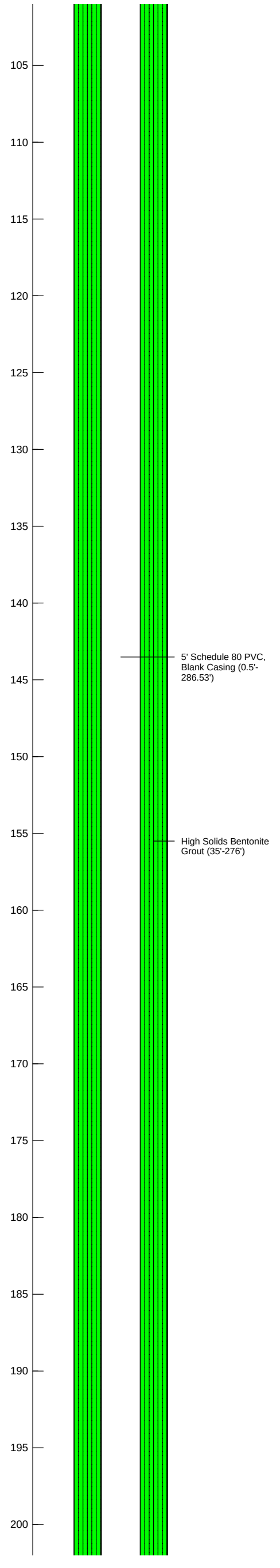
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245128.28 Elevation: 4277.60
Easting: 884520.19

FORMER Y STATION
CLOVIS, NEW MEXICO
MW-12

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	105		100	105-115	SP		Sand - as above.
	110	2.0			SP		Sand - as above interbedded with caliche - pinkish white (7.5YR 8/2), fine grained, well sorted, subrounded to subangular, calcium carbonate cement, dry, odorless.
	115		100	115-125	SP		Sand - as above.
	120	2.8			SP		Sand - as above.
	125		100	125-135	SP		Sand - as above.
	130	1.6			SP		Sand - as above.
	135		100	135-145	SP		Sand - as above.
	140	2.8			SP		Sand - as above.
	145		100	145-155	SP		Sand - as above.
	150	0.4			SP		Sand - as above.
	155		100	155-165	SP		Sand - as above.
	160	6.6			SP		Sand - as above.
	165		100	165-175	SP		Sand - as above.
					SP-SC	167-175	Sand with clay - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, low plasticity, loose, dry, odorless.
	170	1.8			SP-SC		Sand with clay - as above.
	175		100	175-185	SP	175-355	Sand - yellowish red (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, calcium carbonate concentrations, dry, odorless.
	180	1.6			SP		Sand - as above.
	185		100	185-195	SP		Sand - as above.
	190	2.6			SP		Sand - as above.
	195		100	195-205	SP		Sand - as above.
	200	3.5			SP		Sand - as above.

Geologist: P. Feltman and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 7/9/19 Well completion date: 7/20/19

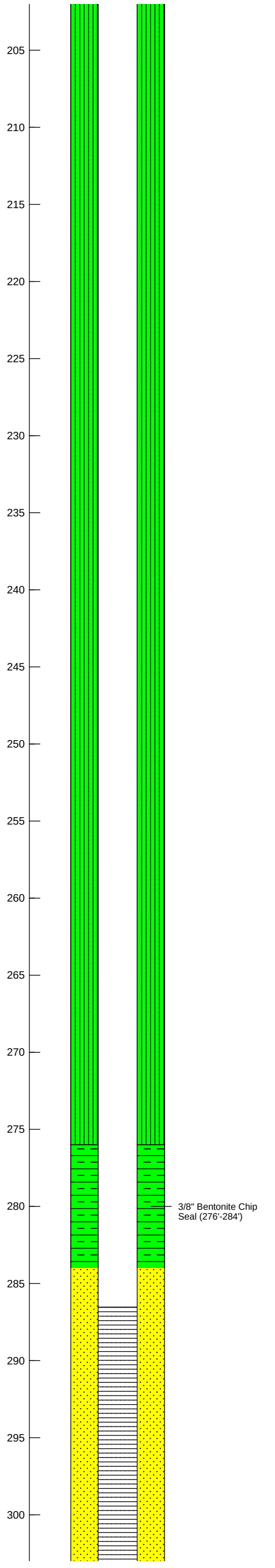
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245128.28 Elevation: 4277.60
Easting: 884520.19

FORMER Y STATION
CLOVIS, NEW MEXICO
MW-12

Daniel B. Stephens & Associates, Inc.
9/5/2019 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	205		100	205-215	SP		Sand - as above.
	210	1.3			SP		Sand - as above.
	215		100	215-225	SP		Sand - no calcium carbonate concretions, otherwise as above.
	220	1.1			SP		Sand - as above.
	225		100	225-235	SP		Sand - as above.
	230	0.4			SP		Sand - as above.
	235		100	235-245	SP		Sand - as above.
	240	0.3			SP		Sand - as above.
	245		100	245-255	SP		Sand - as above.
	250	2.1			SP		Sand - as above.
	255		100	255-265	SP		Sand - as above.
	260	6.6			SP		Sand - as above.
	265		100	265-275	SP		Sand - as above.
	270	1.0			SP		Sand - as above.
	275		100	275-285	SP		Sand - as above.
	280	0.4			SP		Sand - as above.
	285		100	285-295	SP		Sand - solvent odor - otherwise as above.
	290	0.2			SP		Sand - as above, solvent odor.
	295		100	295-305	SP		Sand - as above.
	300	2.4			SP		Sand - as above.

Geologist: P. Feltman and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 7/9/19 Well completion date: 7/20/19

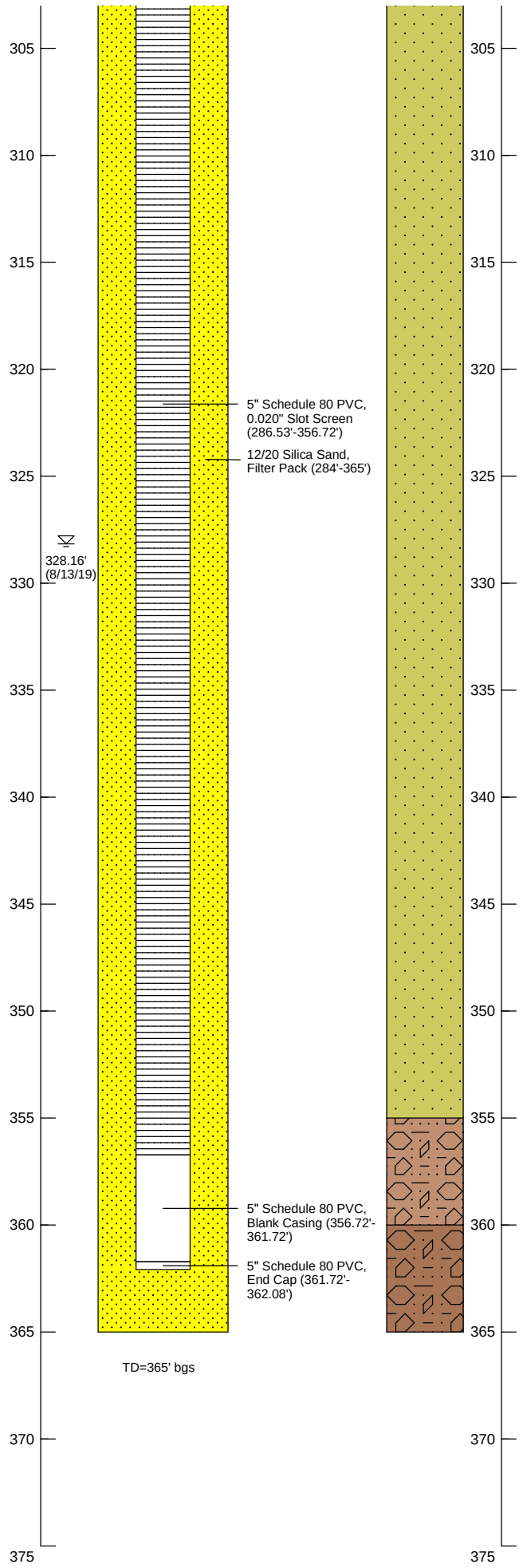
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245128.28 Elevation: 4277.60
Easting: 884520.19

FORMER Y STATION
CLOVIS, NEW MEXICO
MW-12

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	305-315	SP		Sand - as above.
	20.6			SP		Sand - as above.
		100	315-325	SP		Sand - as above.
	12.6			SP		Sand - as above with slight HC odor.
	3.5	100	325-335	SP		Sand - as above.
				SP		Sand - as above but moist and yellowish red (5YR 5/6).
	NA	100	335-345	SP		Sand - as above but wet.
				SP		Sand - as above.
		100	345-355	SP		Sand - as above.
				SP		Sand - as above with trace low plasticity clay.
		100	355-365	SW	355-360	Gravelly sand - reddish brown (5YR 5/4), fine grained, fine gravels, well graded, subrounded, low plasticity (trace clay), medium dense, wet, odorless. Increasing gravel and clay content down section.
				SW-SC	360-365	Wackestone - (calcium carbonate cemented gravels and sand), very pale brown (10YR 7/3), fine grained sand, fine gravels to cobbles, well graded, subrounded, dry, odorless.

Geologist: P. Feltman and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 7/9/19 Well completion date: 7/20/19

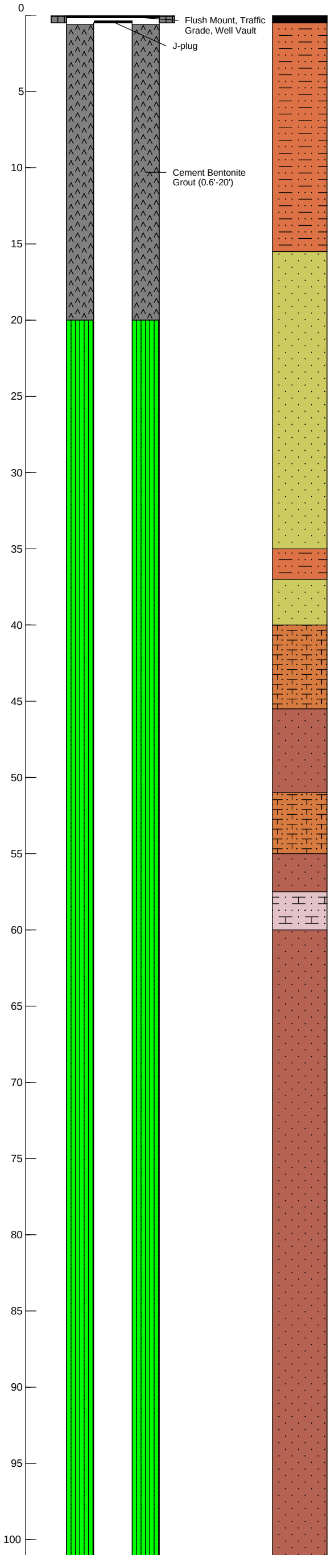
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245128.28 Elevation: 4277.60
Easting: 884520.19

FORMER Y STATION
CLOVIS, NEW MEXICO
MW-12

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	0-15	NA	0-0.5	Asphalt.
					0.5-15.5	
	11.2			SC		Clayey sand - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, low plasticity, loose to medium dense, slightly moist, no odor, calcium carbonate rich.
				SC		Clayey sand - light brown (7.5YR 6/4), less clay content, dry, otherwise as above.
	13.1	100	15-25	SC		Clayey sand - as above.
				SP	15.5-35	Sand - yellowish red (5YR 5/8), fine grained, well sorted, subrounded, non-plastic, loose to partially cemented with cacium carbonate, dry, no odor.
				SP		Sand - pink (5YR 7/3), increased calcium carbonate, otherwise as above.
				SP		Sand - yellowish red (5YR 5/8), trace silt, otherwise as above.
	19.2	100	25-30	SP		Sand - less calcium carbonate, loose, otherwise as above.
				SP		Sand - pink (5YR 7/3), calcium carbonate rich, partially cemented, otherwise as above.
		100	30-35	SP		Sand - as above.
	18.1	100	35-45	SC	35-37	Clayey sand - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, low plasticity, loose, dry, no odor.
				SP	37-40	Sand - yellowish red (5YR 5/6), very fine to fine grained, well sorted, subrounded, non-plastic, loose to partially cemented, calcium carbonate rich, dry, no odor.
				SM	40-45.5	Silty sand - little calcium carbonate and silty, loose, otherwise as above.
	11.1	100	45-55	SM		Silty sand - as above.
				SP	45.5-51	Sand - yellowish red (5YR 5/6), fine, well sorted, subrounded, non-plastic, loose, dry, no odor.
				SM	51-55	Silty sand - light brown (7.5YR 6/4), very fine, well sorted, subrounded, non-plastic, loose, dry, no odor, claicum carbonate rich.
				SM		Silty sand - little calcium carbonate, otherwise as above.
	20.7	100	55-60	SP	55-57.5	Sand - light brown (75.YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, no odor, calcium carbonate nodules..
				NA	57.5-60	Caliche.
		100	60-65	SP	60-345	Sand - pinkish gray (5YR 7/2), fine grained, well sorted, subrounded to subangular, non-plastic, loose to partially cemented, calcium carbonate rich, dry, no odor.
	30.5	100	65-75	SP		Sand - as above.
				SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose to partially cemented, calcium carbaonate rich, dry, no odor.
				SP		Sand - reddish yellow (7.5 YR 6/6), trace silt, little calcium carbonate, otherwise as above.
	20.1	100	75-85	SP		Sand - as above.
	12.1	100	85-95	SP		Sand - no calcium carbonate, no trace silt, otherwise as above.
	0.4	100	95-105	SP		Sand - as above.

Geologist: P. Feltman and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 8/4/19
Well completion date: 8/13/19

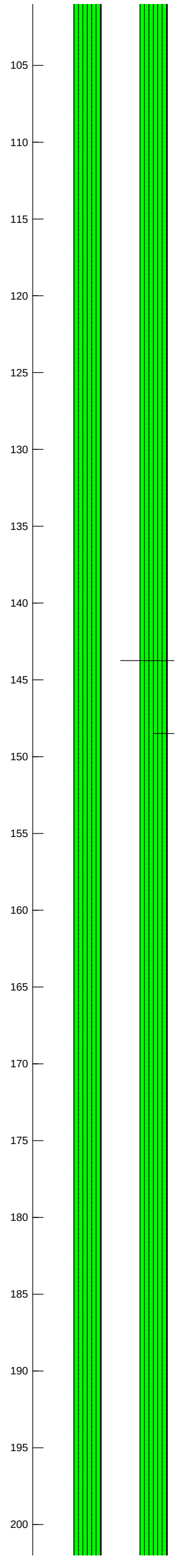
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244960.74 Elevation: 4275.82
Easting: 884269.96

FORMER Y STATION
CLOVIS, NEW MEXICO
MW-13

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	19.6	100	105-115	SP		Sand - claiche stringers from 106'-108', otherwise as above.
	6.1	100	115-125	SP		Sand - as above.
	14.1	100	125-135	SP		Sand - as above.
	8.7	100	135-145	SP		Sand - as above.
	12.1	100	145-155	SP		Sand - as above.
	4.7	100	155-165	SP		Sand - as above.
	4.1	100	165-175	SP		Sand - as above.
	6.7	100	175-185	SP		Sand - as above.
	4.1	100	185-195	SP		Sand - calcium carbonate cemented at 186', calcium carbonate cemented gravels and cobbles up to 3" at 189', otherwise as above.
	3.3	100	195-205	SP		Sand - as above.

Geologist: P. Feltman and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 8/4/19
Well completion date: 8/13/19

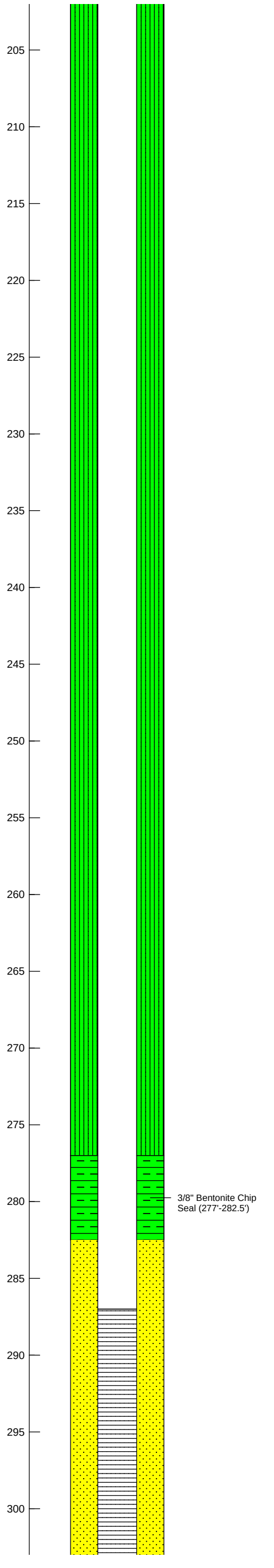
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244960.74 Elevation: 4275.82
Easting: 884269.96

FORMER Y STATION
CLOVIS, NEW MEXICO
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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	4.2	100	205-215	SP		Sand - as above.
	3.4	100	215-225	SP		Sand - as above.
	1.9	100	225-235	SP		Sand - cemented cobbles at 230'-235', otherwise as above.
	1.6	100	235-245	SP		Sand - as above.
	3.3	100	245-255	SP		Sand - with cemented cobbles and gravels at 245' and 250', otherwise as above.
	1.1	100	255-265	SP		Sand - as above.
	5	100	265-275	SP		Sand - cemented gravels and cobbles up to 3", otherwise as above.
	5.9	100	275-285	SP		Sand with cemented gravels and cobbles as above.
	1.1	100	285-295	SP		Sand - as above.
	1.5	100	295-305	SP		Sand - red (2.5YR 5/8), fine to medium grained, with calcarius cementations, some well cemented cobbles present, non-plastic, no odor, dry.

Geologist: P. Feltman and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 8/4/19
Well completion date: 8/13/19

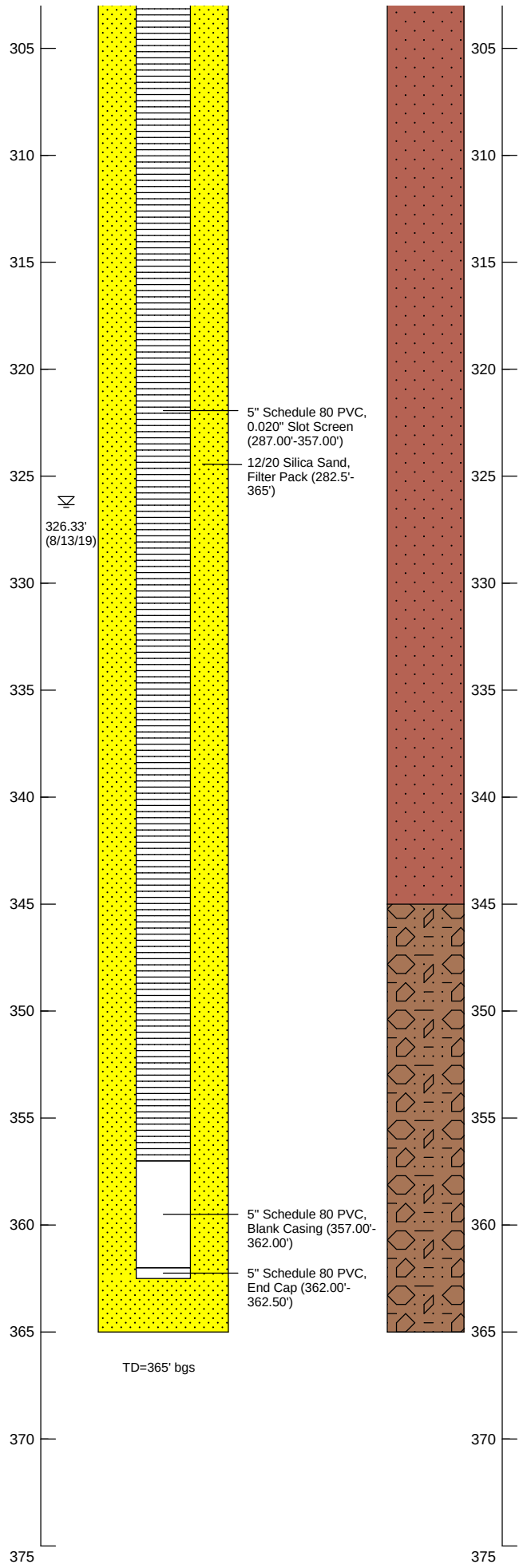
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244960.74 Elevation: 4275.82
Easting: 884269.96

FORMER Y STATION
CLOVIS, NEW MEXICO
MW-13

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	9.7	100	305-315	SP		Sand - moist, increasing indurated sandstone, fine to medium grained, quartz, subrounded to rounded.
	19.2	100	315-325	SP		Sand - reddish brown (2.5YR 4/4), fine to medium grained, quartz sand, rounded, trace silt, poorly compacted, weakly plastic, wet, no odor.
	3.5	100	325-335	SP		Sand - yellowish red (5YR 5/6), fine to medium grained, well sorted, rounded, wet, no odor.
	2	100	335-345	SP		Sand - as above.
	NA	100	345-355	SC	345-365	Clayey sand - reddish brown (5YR 5/4), fine grained, well sorted, rounded, minor clay, wet, moderately plastic, no odor.
	NA	100	355-365	SC		Clayey sand with gravel and cobbles - fine to coarse, subrounded, firm, slightly plastic, fine gravels to small cobbles, wet, no odor.

Geologist: P. Feltman and J. Fisher
Driller: Yellow Jacket Drilling
Drilling start date: 8/4/19
Well completion date: 8/13/19

Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244960.74 Elevation: 4275.82
Easting: 884269.96

FORMER Y STATION
CLOVIS, NEW MEXICO
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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	0-10	NA	0-0.5	Asphalt.
	0.0			SC	0.5-30	Clayey sand - reddish yellow (5YR7/6), fine grained, poorly sorted, subrounded to subangular, moderate plasticity, soft, moist, no odor
	0.0	100	10-20	SC		Clayey sand - as above
	0.0	100	20-30	SC		Clayey sand - as above
	0.0	100	30-40	SP	30-60	Sand - reddish yellow (5YR5/6), fine grained, well sorted, subrounded to subangular, well cemented, trace silt and clay, dry, no odor
	0.0	100	40-50	SP		Sand - as above
	0.0	100	50-60	SP		Sand - as above
	1.9	100	60-70	SW	60-70	Sand - light reddish brown (5YR6/4), fine to coarse grained, poorly sorted, subrounded to subangular, partially cemented, trace silt, dry, no odor
	1.3	100	70-80	SP	70-350	Sand - pink (5YR7/3), fine to medium grained, well sorted, subrounded to subangular, partially cemented, increased CaCO3, dry, no odor
	0.8	100	80-90	SP		Sand - as above, light reddish brown (5YR6/4)
	1.6	100	90-100	SP		Sand - pink (7.5YR7/4), fine grained, well sorted, subrounded to subangular, loose, little to no CaCO3, dry, no odor
	1.4	100	100-110	SP		Sand - as above
	2.1	100	110-120	SP		Sand - as above, some medium grained sand
	0.7	100	120-130	SP		Sand - light brown (7.5YR6/4), very fine, well sorted, subrounded, loose, trace silt, dry, no odor
	0.7	100	130-140	SP		Sand - as above, fine grained, decreased silt

Geologist: J. Fisher and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 5/29/2020
Well completion date: 5/29/2020

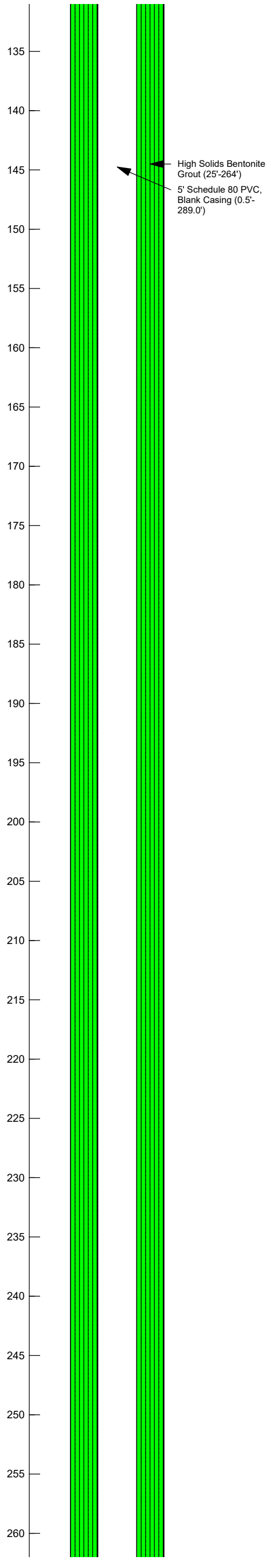
Drilling method: ARCH
Borehole diameter: 8.5"
Sampling method: Cuttings

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244755.74 Elevation: 4276.23
Easting: 884811.25

FORMER Y STATION
STATE LEAD SITE
CLOVIS, NEW MEXICO
MW-16

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5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	1.4	100	140-150	SP		Sand - as above, increased silt
	1.8	100	150-160	SP		Sand - as above, decreased silt
	1.4	100	160-170	SP		Sand - as above
	2.7	100	170-180	SP		Sand - as above, increased silt
	2.4	100	180-190	SP		Sand - as above
	2.0	100	190-200	SP		Sand - as above
	2.9	100	200-210	SP		Sand - as above
	1.7	100	210-220	SP		Sand - as above
	2.3	100	220-230	SP		Sand - as above
	1.1	100	230-240	SP		Sand - as above
	0.9	100	240-250	SP		Sand - as above
	1.3	100	250-260	SP		Sand - as above
	0.0	100	260-270	SP		Sand - as above, pink (7.5YR7/4), increased silt, trace CaCO3

Geologist: J. Fisher and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 5/29/2020
Well completion date: 5/29/2020

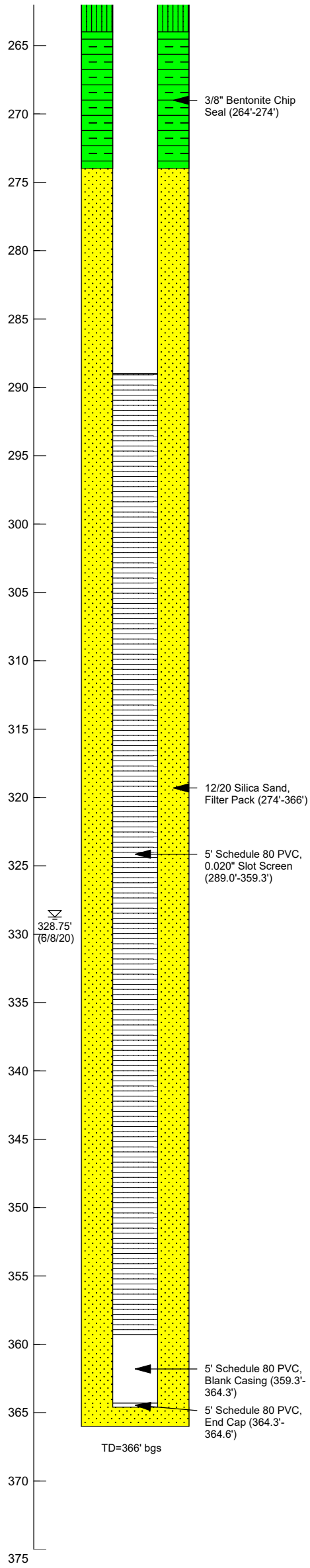
Drilling method: ARCH
Borehole diameter: 8.5"
Sampling method: Cuttings

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244755.74 Elevation: 4276.23
Easting: 884811.25

FORMER Y STATION
STATE LEAD SITE
CLOVIS, NEW MEXICO
MW-16

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5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	2.2	100	270-280	SP		Sand - as above, no CaCO3
	5.1	100	280-290	SP		Sand - as above
	1.6	100	290-300	SP		Sand - as above, reddish yellow (7.5YR6/6), trace CaCO3
	0.6	100	300-310	SP		Sand - as above
	1.1	100	310-320	SP		Sand - as above
	0.4	100	320-330	SP		Sand - as above, moist
	1.8	100	330-340	SP		Sand - as above, very moist, no CaCO3
	NA	100	340-350	SP		Sand - as above, wet, trace gravel
	NA	100	350-360	SM	350-360	Silty sand with gravel - reddish yellow (7.5YR6/6), fine to medium grained, poorly sorted, subrounded, gravels of CaCO3 cemented sand, trace clay,saturated, no odor
	NA	100	360-366	GW	360-366	Sandy gravel - light brown (7.5YR6/4), gravels up to 2.5", subrounded, fine sand, silt, poorly sorted, saturated, no odor

Geologist: J. Fisher and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 5/29/2020
Well completion date: 5/29/2020

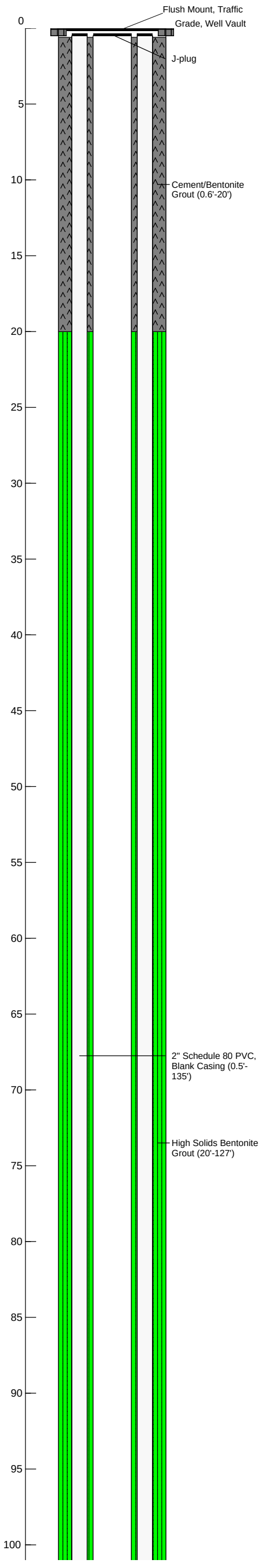
Drilling method: ARCH
Borehole diameter: 8.5"
Sampling method: Cuttings

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244755.74 Elevation: 4276.23
Easting: 884811.25

FORMER Y STATION
STATE LEAD SITE
CLOVIS, NEW MEXICO
MW-16

Daniel B. Stephens & Associates, Inc.
5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	9.6			NA	0-1	Landscaping rocks and soil/plants
				SP	1-5	Sand - light brown (5YR 7/4), well graded, loose, dry to moist, subrounded, very fine, trace silt, no odor, some caliche nodules.
		100	5-15	SC	5-15	Clayey sand - (7.5YR 6/3), fine sand, subrounded, low plasticity, claiche nodules, and stringers (10%), dry, loose-medium dense, no odor.
	2.8					
				SC		Clayey sand - as above but loose, (7.5YR 8/4).
		100	15-25	CL	15-19.5	Sandy clay - yellowish red (5YR 5/8), trace silt, low to medium plasticity, moist, fine sand, caliche nodules.
				CL		Sandy clay - as above.
				SC	19.5-20	Sand - calcium carbonate cemented, light gray (5YR 7/4).
	0.3			SC	20-25	Clayey sand - (5YR 5/8), well sorted, low to medium plasticity, slightly moist, fine, subrounded, loose, caliche nodules (<10%), no odor.
		100	25-35	SP	25-45	Sand - yellowish red (5YR 5/8), very fine, subrounded, loose, dry, no odor, low caliche content, well sorted.
	3.0			SP		Sand - as above but calcium carbonate cemented, medium dense.
				SP		Sand - as above with <15% caliche, loose (see 25'-30').
		100	35-45	SP		Sand - (7.5YR 9/2), well sorted, very fine, subrounded, partially cemented, dry, no odor.
	0.0					
				SP		Sand - (5YR 5/8), well sorted, very fine to fine, subrounded, loose to partially cemented, slightly moist, no odor.
		100	45-55	SC	45-45.75	Clayey sand - (5YR 5/6), fine, subrounded, low plasticity, moist, no odor.
				SP	45.75-114	Sand - (5YR 5/6), well sorted, fine, subrounded, loose, dry, no odor, CaCO3.
	7.6					
		100	55-63	SP		Sand - pink (7.5YR 7/4), fine, well sorted, subangular, loose to partially cemented (CaCO3), dry, odorless.
				SP		Sand - reddish yellow (5YR 6/6), fine, well sorted, subrounded, loose, odorless, dry, calcium carbonate (10%).
				SP		Sand - see 55'. Hard drilling.
	0.0					
		100	63-73	SP		Sand (5YR 8/4), fine, well sorted, subrounded, loose to partially cemented (fragments up to 2"), dry, no odor, trace silt. Very hard caliche layer at 68' bgs.
	6.6					
		100	73-85	SP		Sand - (7.5YR 8/4), fine to medium, well sorted, loose, litle to no caliche, subrounded to subangular, dry, slight HC odor, some mottling of green and gray staining.
	0.5					
		100	85-95	SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, loose, subrounded to subangular, dry, HC odor (possibly diesel).
	0.4			SP		Sand - as above.
				SP		Sand - white (10YR 8/1), caliche cement, otherwise as above.
		100	95-105	SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, slightly moist, HC odor.
	0.5			SP		Sand - as above.

Geologist: P. Feltman and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 6/20/19
Well completion date: 6/29/19

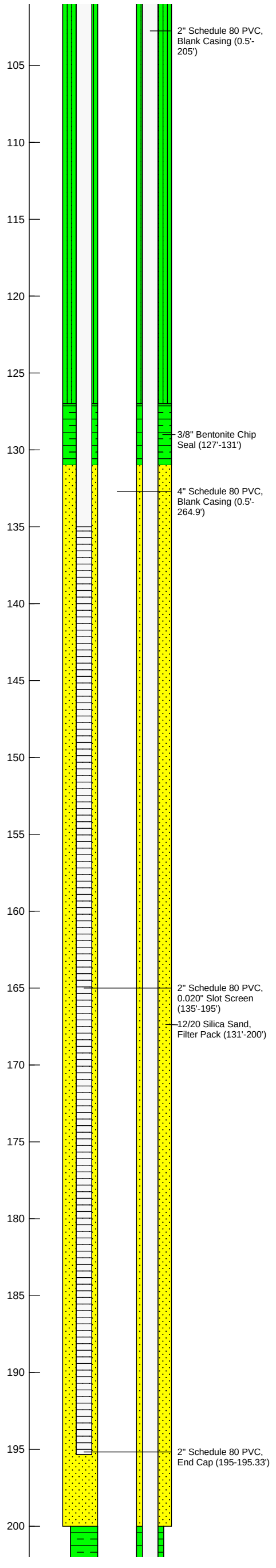
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245546.71 Elevation: 4280.00
Easting: 884125.47

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-1

Daniel B. Stephens & Associates, Inc.
5/17/2021 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	105		100	105-115	SP		Sand - as above.
	110	1.3			SP		Sand - as above.
	115				NA	114-115	Caliche - pinkish white (7.5YR 8/2), fine grained, well sorted, subrounded, calcium carbonate cemented, dry, odorless.
			100	115-125	SP	115-281	Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, slightly moist, HC odor, minor staining.
	120	73.2			SP		Sand - as above.
	125		100	125-135	SP		Sand - as above.
	130	4.1			SP		Sand - as above.
	135		100	135-145	SP		Sand - as above.
	140	22.7			SP		Sand - as above.
	145		100	145-155	SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, minor clay, loose, slightly moist, HC odor.
	150	3.6			SP		Sand - as above.
	155		100	155-165	SP		Sand - as above.
	160	2.8			SP		Sand - with calcium carbonate concretions, otherwise as above.
	165		100	165-175	SP		Sand - as above.
	170	17.3			SP		Sand - as above.
					SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, slightly moist, HC odor.
	175		100	175-185	SP		Sand - as above.
	180	14.5			SP		Sand - as above.
	185		100	185-195	SP		Sand - as above.
	190	6.1			SP		Sand - as above.
	195		100	195-205	SP		Sand - calcium carbonate concretions, otherwise as above.
	200	13.2			SP		Sand - as above.

Geologist: P. Feltman and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 6/20/19
Well completion date: 6/29/19

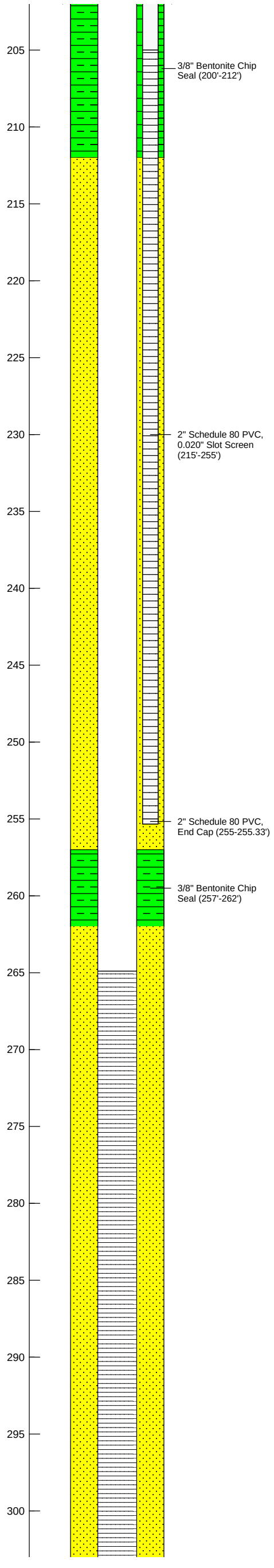
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245546.71 Elevation: 4280.00
Easting: 884125.47

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-1

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	205		100	205-215	SP		Sand - as above.
	210	16.9			SP		Sand - as above.
	215		100	215-225	SP		Sand - as above.
	220	53.4			SP		Sand - with calcium carbonate concretions, otherwise as above.
	225		100	225-235	SP		Sand - as above.
	230	17.4			SP		Sand - as above.
	235		100	235-245	SP		Sand - as above.
	240	30.6			SP		Sand with minor clay - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, low plasticity, loose, slightly moist, HC odor.
					SP		Sand with minor clay - as above.
	245		100	245-255	SP		Sand with minor clay - as above.
	250	26.8			SP		Sand with minor clay - as above.
	255		100	255-265	SP		Sand with minor clay - as above.
	260	6.3			SP		Sand with calcium carbonate concretions - light brown (7.5YR 6/4), fine grained well sorted, subrounded to subangular, non-plastic. loose, slightly moist, HC odor.
	265		50	265-273	SP		Sand with calcium carbonate concretions - as above.
	270				NA		No recovery.
		32.2	100	273-280	SP		Sand with calcium carbonate concretions - as above.
	275						
	280	21.1	100	280-285	SP		Sand with calcium carbonate concretions - as above.
					SP	281-282	Sandstone - pinkish gray (7.5YR 7/2), fine grained, well sorted, subrounded to subangular, calcium carbonate cement, dry, odorless.
					SP	282-348	Sand with calcium carbonate concretions and stringers - light brown (7.5YR 6/4), fine grained, well sorted, surounded to subangular, non-plastic, loose, slightly moist, slight HC odor.
	285		100	285-295	SP		Sand - staining brown (7.5YR 5/3), otherwise as above.
	290				SP		Sand - continued staining and HC odor, as above.
	295	>15,000	100	295-305	SP		Sand - continued staining and HC odor, as above.
	300	>15,000			SP		Sand with calcium carbonate concretions - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, moist, HC odor.

Geologist: P. Feltman and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 6/20/19
Well completion date: 6/29/19

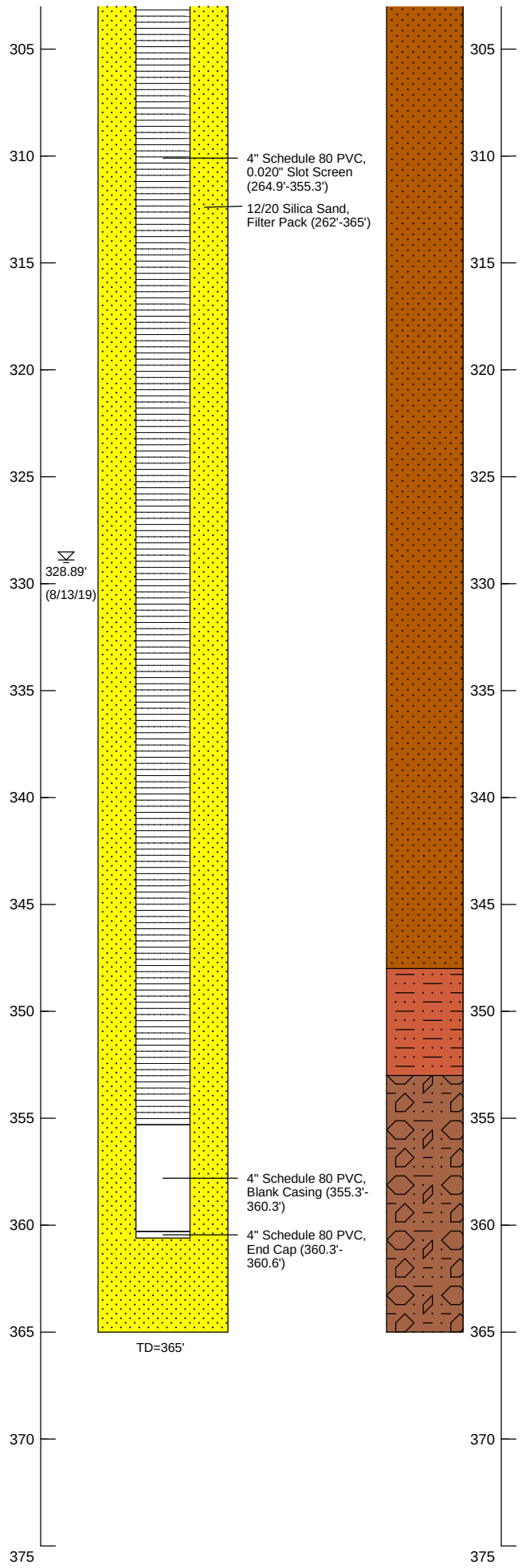
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245546.71 Elevation: 4280.00
Easting: 884125.47

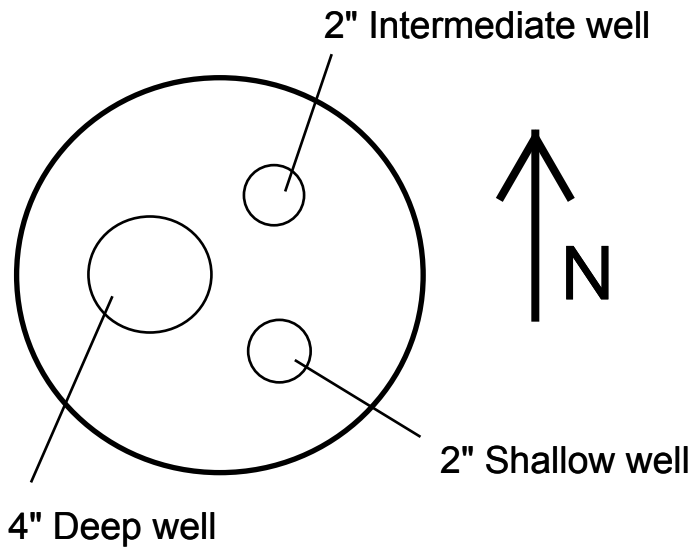
FORMER Y STATION
CLOVIS, NEW MEXICO
RW-1

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5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	305-315	SP		Sand with calcium carbonate concretions, HC odor, as above.
	>15,000			SP		Sand with calcium carbonate concretions, HC odor, as above.
		100	315-325	SP		Sand with calcium carbonate concretions, HC odor, as above.
	27.9			SP		Sand with calcium carbonate concretions, HC odor, as above.
		100	325-335	SP		Sand with calcium carbonate concretions, saturated, odorless, as above.
	NA			SP		Sand with calcium carbonate concretions, saturated, odorless, as above.
		100	335-345	SP		Sand with calcium carbonate concretions, as above.
	NA			SP		Sand with calcium carbonate concretions, as above.
		100	345-355	SP		Sand with calcium carbonate concretions, as above.
				SC	348-353	Clayey sand with calcium carbonate concretions, light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, moderate plasticity, loose, wet, odorless.
	NA			SC		Clayey sand - as above.
				SC	353-365	Clayey sand with gravel - light brown (7.5YR 6/4), fine to coarse grained, poorly sorted, rounded to subangular, low plasticity, wet, gravel up to 2", odorless.
		100	355-365	SC		Clayey sand with gravel - as above.
	NA			SC		Clayey sand with gravel - as above.



Geologist: P. Feltman and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 6/20/19
Well completion date: 6/29/19

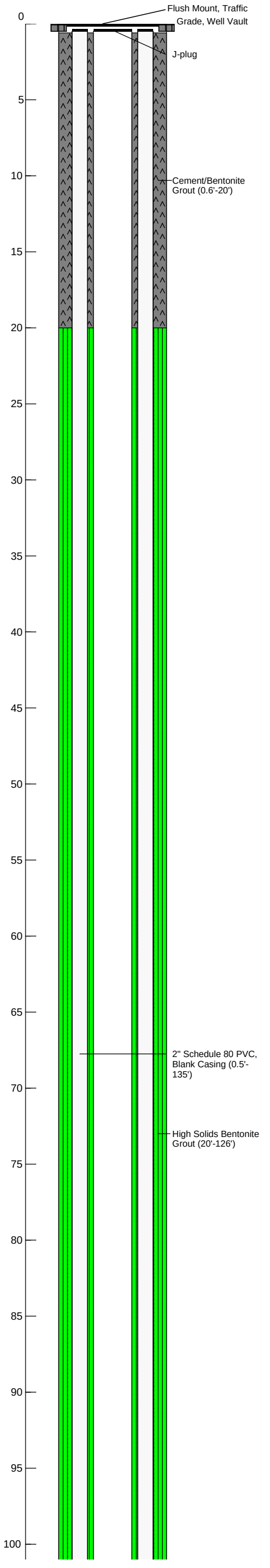
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245546.71 Elevation: 4280.00
Easting: 884125.47

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-1

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5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
				NA	0-0.5	Asphalt.
	0.0	100	0-5	CL	0.5-4	Sandy clay - dark brown (7.5YR 3/3), medium stiff, slight to moderate plasticity, slightly moist, odorless.
				CH	4-5	Clay with silt - pink (7.5YR 7/4), soft, moderate to high plasticity.
	0.0	100	5-15	SC	5-25	Clayey sand - strong brown (7.5YR 5/6), fine grained, well sorted, subrounded, stiff, brittle to slightly plastic, odorless. Carbonate cementation (caliche) present in stringers and ribbons becoming more pervasive with depth.
	0	30	15-25	SC		Clayey sand - as above.
				SC		Clayey sand - yellowish red (5YR 5/6), fine grained, well sorted, variably cemented with caliche. Sands are loose to moderately cohesive, slightly moist, odorless.
	0	100	25-35	SM	25-27	Silty sand - strong brown (7.5YR 5/6), very fine grained sand and silt, loose to slightly cohesive, dry to slightly moist, ordorless.
				SC	27-33	Clayey sand - strong brown (7.5YR 5/6), fine grained sand with appreciable clay content, variably cemented with caliche, increasing with depth, moderately stiff to well cemented, odorless.
				SM	33-43	Silty sand - light brown (7.5YR 6/4), fine to medium grained, moderately sorted, variably cemented with caliche, loose where not cemented, dry, odorless.
	0	100	35-45	SM		Silty sand - similar to above, grading downward to fine sand (SP). Caliche stringers and nodules abundant, loose where not cemented, dry, odorless.
				SP	43-50	Sand - reddish yellow (7.5YR 6/6), fine to very fine grained, well sorted, rounded, loose to weakly cemented.
	0	100	45-55	SP		Sand - as above.
	0.0			SP/SM	50-55	Sand - strong brown (7.5YR 5/6), very fine to fine grained, generally loose to weakly cemented, with variable degrees of calcium carbonate cement in stringers and nodules, dry, ordorless.
	0.0	100	55-65	NA	55-60	Caliche - white to pinkish gray (7.5YR 7/2), masssive, very hard, weakly cemented sand and silt stringers present.
				SM	60-65	Silty sand - pink (7.5YR 7/3), fine grained, significant caliche development, otherwise loose, dry, odorless.
	0.0	100	65-75	SP	65-243	Sand with silt - reddish yellow (7.5YR 6/6), very fine to fine grained, well sorted, rounded, approximately 15% silt, generally loose with sparse caliche nodules.
	83.2	100	75-85	SP		Sand with silt - as above.
				SP		Sand - reddish yellow (7.5YR 6/6), fine to medium grained, moderately well sorted, little to no caliche development, loose, slightly moist, slight hydrocarbon odor.
	0.0	100	85-95	SP		Sand - as above, some carbonate development (~10%).
				SP		Sand - greater cementation, otherwise as above.
				SP		Sand - little to no caliche developement, otherwise as above.
	0.4	100	95-105	SP		Sand - no HC odor, otherwise as above.

Geologist: H. Barnes and J. Raucci
Driller: Yellow Jacket Drilling
Drilling start date: 6/15/19
Well completion date: 6/19/19

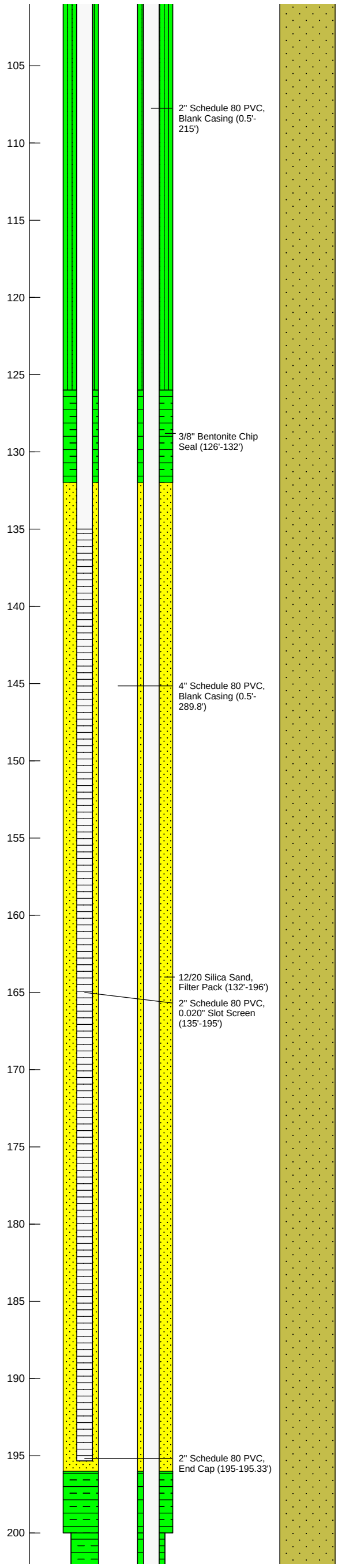
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 124516.84 Elevation: 4279.70
Easting: 884140.97

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-2

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	105	19.1	100	105-110	SP		Sand - similar to above but mottled with light gray (7.5YR 7/1), variable but generally greater developement of carbonate cementation (10-20%) in nodules and lenses.
	110	1.8	100	110-115	SP		Sand - as above.
	115	58	100	115-125	SP		Sand - as above.
	120						
	125	6.9	100	125-135	SP		Sand - as above.
	130						
					SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, loose with sparse carbonate cemmented nodules, slightly moist, slight HC odor.
	135	389.4	100	135-145	SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, loose with little to no carbonate development, slightly moist, slight HC odor.
	140				SP		Sand - similar to above but with large (up to 2") carbonate cemented nodules, strong HC odor.
	145	295.6	100	145-155	SP		Sand - as above, HC odor.
	150						
	155	603.3	100	155-165	SP		Sand - as above, HC odor.
	160				SP		Sand - general increase in carbonate cementation, abundant hard carbonate cemented nodules and lenses, mododerate HC odor.
	165	>15,000	100	165-175	SP		Sand - reddish yellow (7.5YR 6/6), fine grained, very well sorted, loose with little to no carbonate development, slightly moist, HC odor.
	170						
	175	2338	100	175-185	SP		Sand - as above, HC odor.
	180						
	185	>15,000	100	185-195	SP		Sand - as above, HC odor.
	190						
	195	3553	100	195-200	SP		Sand - similar to above but slightly finer grained (very fine sand).
	200	5133	100	200-210	SP		Sand - as above, very fine sand with trace silt.

Geologist: H. Barnes and J. Raucci
Driller: Yellow Jacket Drilling
Drilling start date: 6/15/19
Well completion date: 6/19/19

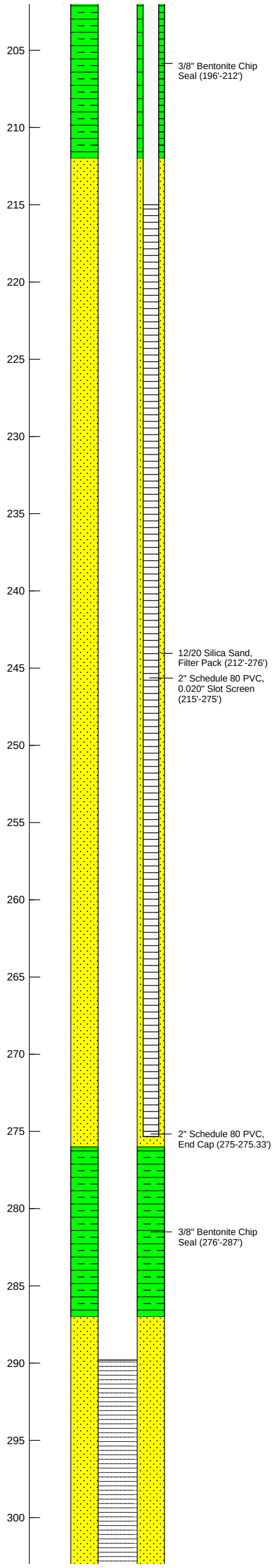
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 124516.84 Elevation: 4279.70
Easting: 884140.97

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-2

Daniel B. Stephens & Associates, Inc.
5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	2994	100	210-217	SP		Sand - as above.
	>15,000	100	217-227	SP		Sand - similar to above but with lenses of darker sand, olive yellow (10YR 5/6), fine grained, well sorted, loose to very weakly cemented.
	>15,000	100	227-235	SP		Sand - reddish yellow (7.5YR 6/6), very fine grained, well sorted, loose with sparse carbonate nodules 1-5 cm diameter, slightly moist, HC odor.
	861.1	100	235-245	SP		Sand - as above.
				SM	243-245	Silty sand - reddish yellow (7.5YR 6/6), very fine grained, greater cementation than above.
	3129	100	245-255	SP	245-354	Sand - reddish yellow (7.5YR 6/6), very fine to fine grained, well sorted, loose with sparse carbonate nodules, occurance increasing with depth, slightly moist, HC odor.
	1661	100	255-265	SP		Sand - as above with some olive yellow color mottling (10YR 6/6), HC odor.
	>15,000	100	265-275	SP		Sand - similar to above, variable but generally greater cementation through this interval.
	1661	100	275-277	SP		Sand - as above.
	>15,000	100	277-284	SP		Sand - continue as above, but sparsely interbedded with thin sandstone beds (<2"). Sandstone is light brown (7.5Y/R 6/4), fine grained, structureless, moderately indurated.
	>15,000	100	284-295	SP		Sand - as above.
	>15,000	100	295-300	SP		Sand - as above.
	>15,000	100	300-315	SP		Sand - as above.

Geologist: H. Barnes and J. Raucci
Driller: Yellow Jacket Drilling
Drilling start date: 6/15/19
Well completion date: 6/19/19

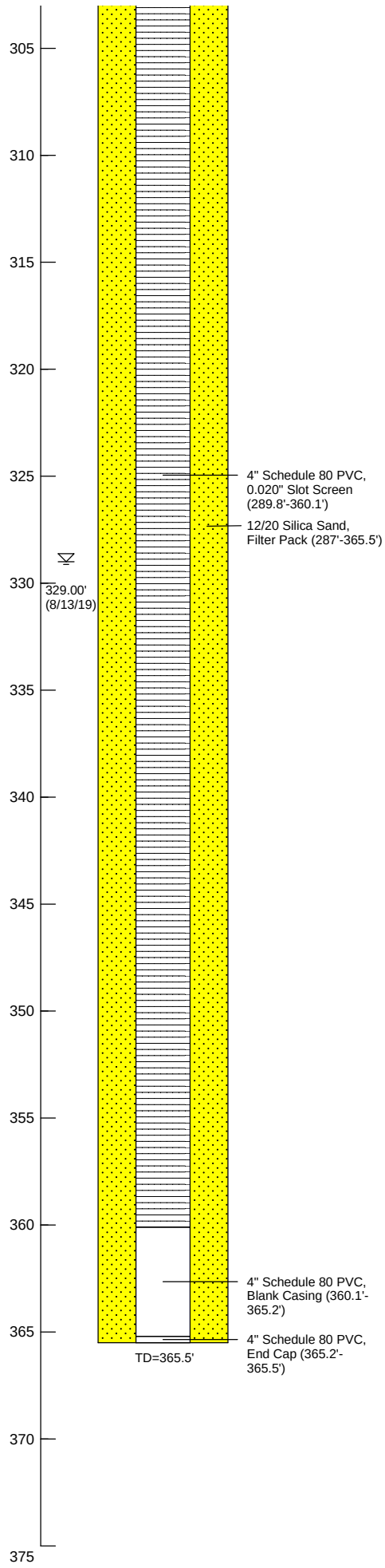
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 124516.84 Elevation: 4279.70
Easting: 884140.97

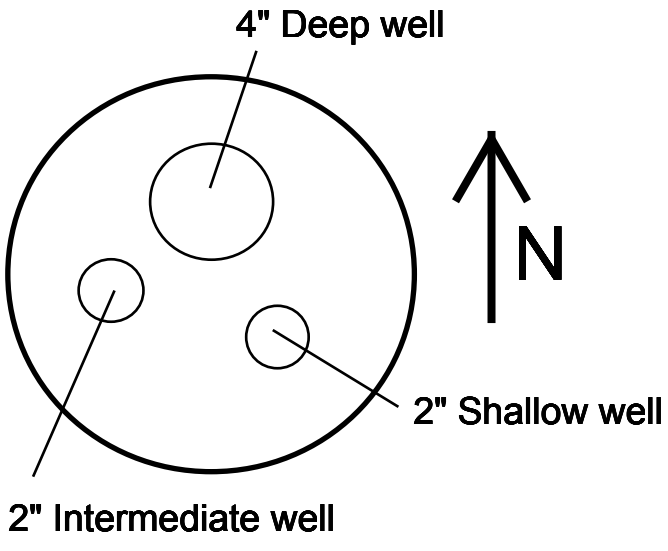
FORMER Y STATION
CLOVIS, NEW MEXICO
RW-2

Daniel B. Stephens & Associates, Inc.
5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	>15,000	100	315-325	SP		Sand - generally as above but with a thin, well-indurated bed at 320'.
	>15,000	100	325-335	SP		Sand - as above, trace silt, encounter water table at approximately 329'.
	516.9	100	335-345	SP		Sand - with silt, otherwise as above.
	48.1	100	345-352	SP		Sand - as above with trace clay (<10%), wet.
		100	352-360	SP		Sand - strong brown (7.5YR 5/6), fine grained, loose to slightly cohesive, minor rounded to subrounded gravels up to 0.5", wet.
				CL	354-360	Sandy clay - reddish brown (2.5YR 5/4), fine grained, slightly to moderately plastic, minor rounded to subrounded gravels up to 0.5", wet.
		100	360-365	SC	360-365	Clayey sand with gravel - light brown (7.5YR 6/4), fine grained, poorly sorted, slightly to moderately plastic, moderately dense, abundant subrounded gravels up to 2" diameter, wet.



Geologist: H. Barnes and J. Raucci
Driller: Yellow Jacket Drilling
Drilling start date: 6/15/19
Well completion date: 6/19/19

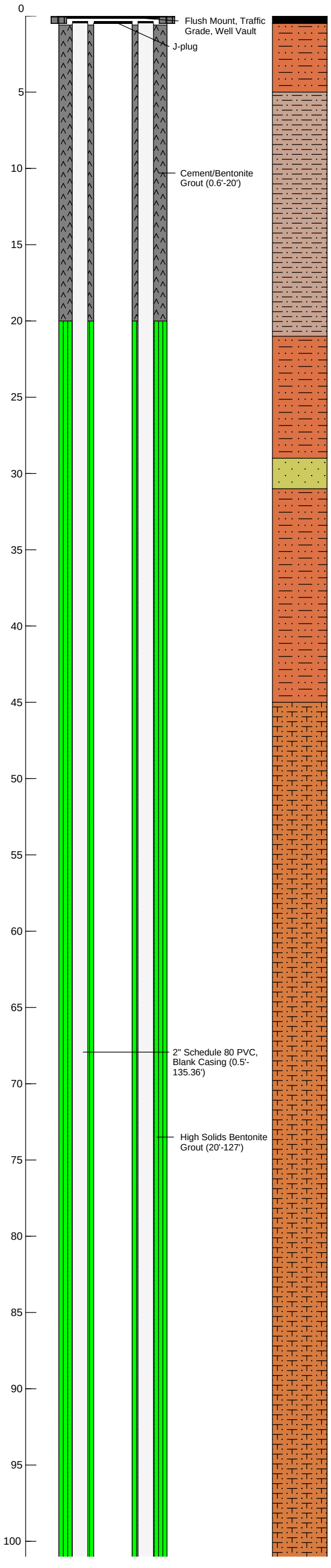
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 124516.84 Elevation: 4279.70
Easting: 884140.97

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-2

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5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	9.6		0-5	NA	0-0.5	Asphalt
				SC	0.5-5	Clayey sand - dark brown (7.5YR 3/4), fine grained, well sorted, subangular, high plasticity, loose, slightly moist, odorless.
		100	5-15	CH	5-21	Sandy clay with caliche - yellowish red (5YR 5/6), fine grained, well sorted, subangular, high plasticity, stiff, dry, odorless.
	2.8			CH		Sandy clay - as above.
		100	15-25	CH		Sandy clay - as above.
	0.3			CH		Sandy clay - as above.
				SC	21-29	Clayey sand - yellowish red (5YR 5/8), and pinkish white (7.5YR 8/2), fine grained, well sorted, subrounded, to angular, low plasticity, loose to semi-consolidated, dry, odorless.
		100	25-35	SC		Clayey sand - decreased caliche, otherwise as above.
				SP	29-31	Sand - yellowish red (5YR 5/8), fine grained, well sorted, subrounded to subangular, non-plastic, minor clay, loose, dry, odorless.
	3.0			SP		Sand - as above.
				SC	31-45	Clayey sand - reddish yellow (5YR 5/6), minor silt, fine grained, well sorted, subrounded to subangular, with caliche - pinkish white (7.5YR 8/2), semi consolidated, dry, odorless.
		100	35-45	SC		Clayey sand - as above.
	0.0			SC		Clayey sand - reduced claiche, otherwise as above.
		100	45-55	SP	45-335	Sand with silt and clay - yellowish red (5YR 5/6), fine grained, well sorted, subrounded to angular, low plasticity, loose, dry, odorless.
	7.6			SP		Sand with slilt and clay - as above.
		100	55-63	SP		Sand with silt - pink (7.5YR 7/3), fine grained, well sorted, subrounded minor clay, low plasticity, loose, dry, odorless, calcium carbonate reaction with HCl; some consolidated areas.
	0.0			SP		Sand with silt - as above.
		100	63-73	SP		Sand with silt - as above.
	6.6			SP		Sand with silt - as above.
		100	73-85	SP		Sand with silt - as above.
	0.5			SP		Sand with silt and calcium carbonate concretions - otherwise as above.
		100	85-95	SP		Sand with silt and calcium carbonate concretions - as above.
	0.4			SP		Sand with silt and calcium carbonate concretions - as above.
		100	95-105	SP		Sand with silt and calcium carbonate concretions - as above.
	0.5			SP		Sand with silt and calcium carbonate concretions - as above.

Geologist: P. Feltman
Driller: Yellow Jacket Drilling
Drilling start date: 8/19/19
Well completion date: 8/30/19

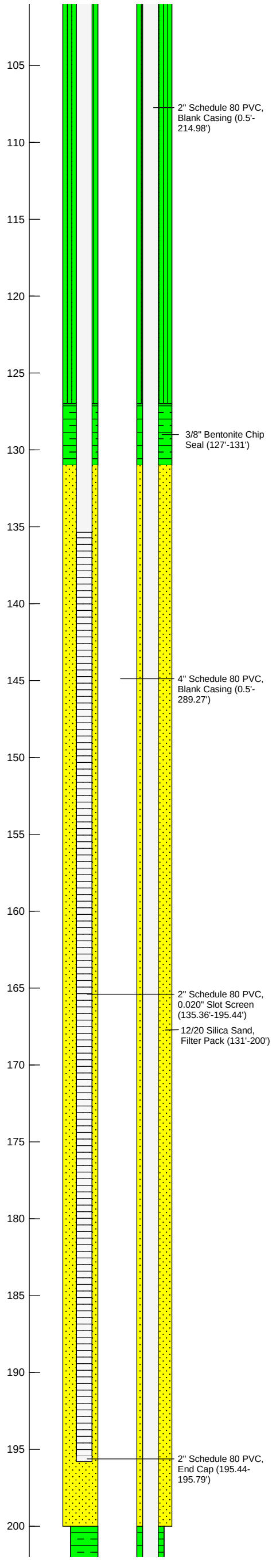
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245486.71 Elevation: 4278.78
Easting: 884251.49

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-3

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9/26/2019 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	105		100	105-115	SP		Sand with silt and calcium carbonate concretions - as above.
	110	1.3			SP		Sand with silt and calcium carbonate concretions - as above.
	115		100	115-125	SP		Sand with silt and calcium carbonate concretions - as above.
	120	73.2			SP		Sand with silt - no calcium carbonate concretions, black staining, otherwise as above.
					SP		Sand with silt - no staining, otherwise as above.
	125		100	125-135	SP		Sand with silt - as above.
	130	4.1			SP		Sand with silt - as above.
	135		100	135-145	SP		Sand with silt - as above.
	140	22.7			SP		Sand with silt - as above.
	145		100	145-155	SP		Sand with silt - as above.
	150	3.6			SP		Sand with silt - as above.
	155		100	155-165	SP		Sand with silt - as above.
	160	2.8			SP		Sand with silt - as above.
	165		100	165-175	SP		Sand with silt - as above.
	170	17.3			SP		Sand with silt - with minor gray staining, odorless, otherwise as above.
					SP		Sand with silt andcalcium carbonate concretions - no staining, otherwise as above.
	175		100	175-185	SP		Sand with silt and calcium carbonate concretions - no staining, otherwise as above.
	180	14.5			SP		Sand with silt - odorless, otherwise as above.
	185		100	185-195	SP		Sand with silt - minor gray staining, otherwise as above.
					SP		Sand with silt - no staining, otherwise as above.
	190	6.1			SP		Sand with silt - slight HC odor, as above.
	195		100	195-205	SP		Sand with silt - slight HC odor, as above.
	200	13.2			SP		Sand with silt - slight HC odor, as above.

Geologist: P. Feltman
Driller: Yellow Jacket Drilling
Drilling start date: 8/19/19
Well completion date: 8/30/19

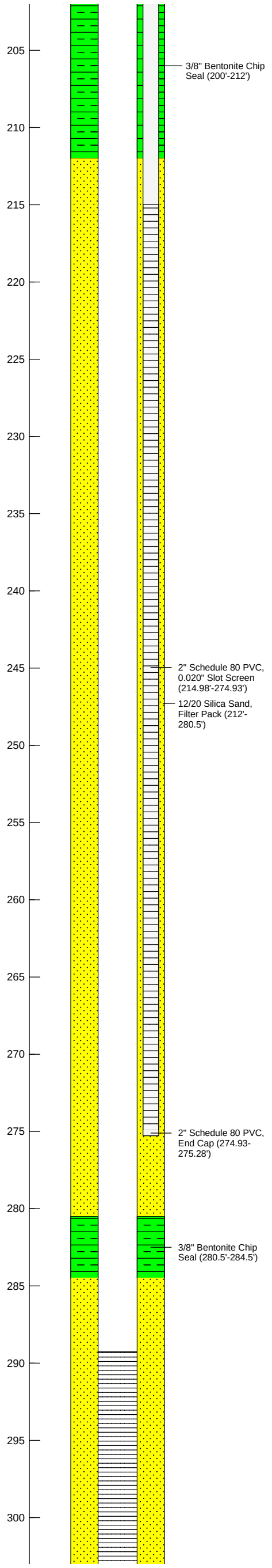
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245486.71 Elevation: 4278.78
Easting: 884251.49

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-3

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	205		100	205-215	SP		Sand with silt and calcium carbonate concretions - slight HC odor, otherwise as above.
	210	16.9			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	215		100	215-225	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	220	53.4			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	225		100	225-235	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	230	17.4			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	235		100	235-245	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	240	30.6			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	245		100	245-255	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	250	26.8			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	255		100	255-265	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	260	6.3			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	265		100	265-272	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	270				SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
		32.2	100	272-284	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	275						
	280	21.1			SP		Sand with silt - no calcium carbonate concretions, slight HC odor, otherwise as above.
	285		0	284-294	SP		No Recovery.
	290						
	295	>15,000	100	294-305	SP		Sand with silt - slight HC odor, as above.
	300	>15,000			SP		Sand with silt - very strong HC odor, otherwise as above.

Geologist: P. Feltman
Driller: Yellow Jacket Drilling
Drilling start date: 8/19/19
Well completion date: 8/30/19

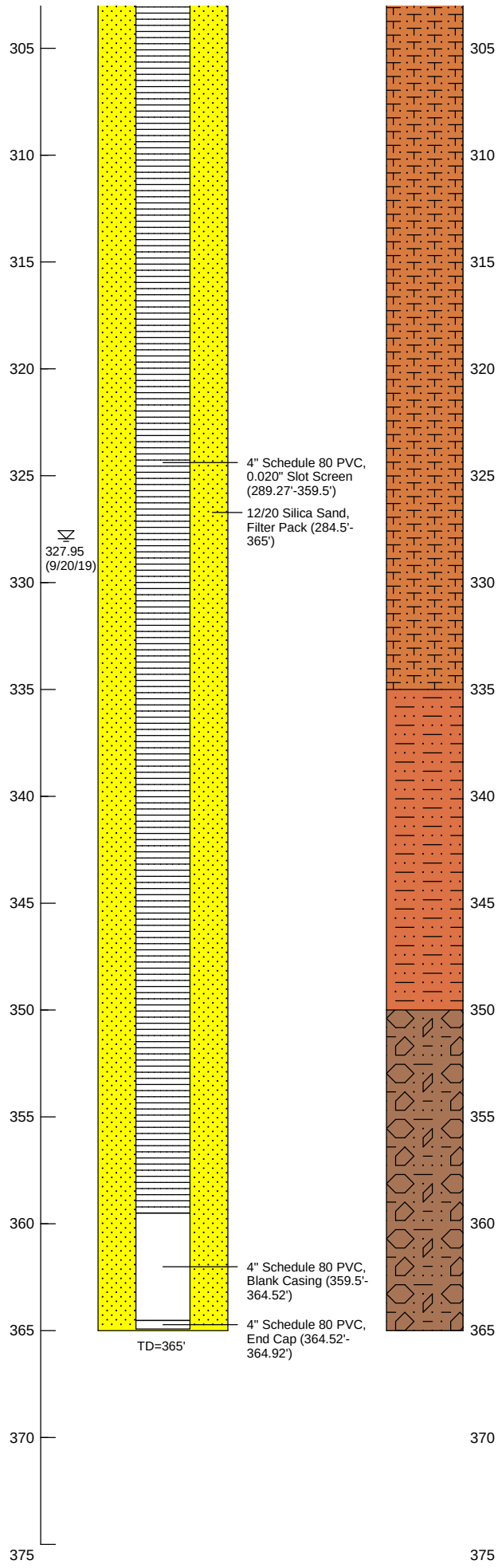
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245486.71 Elevation: 4278.78
Easting: 884251.49

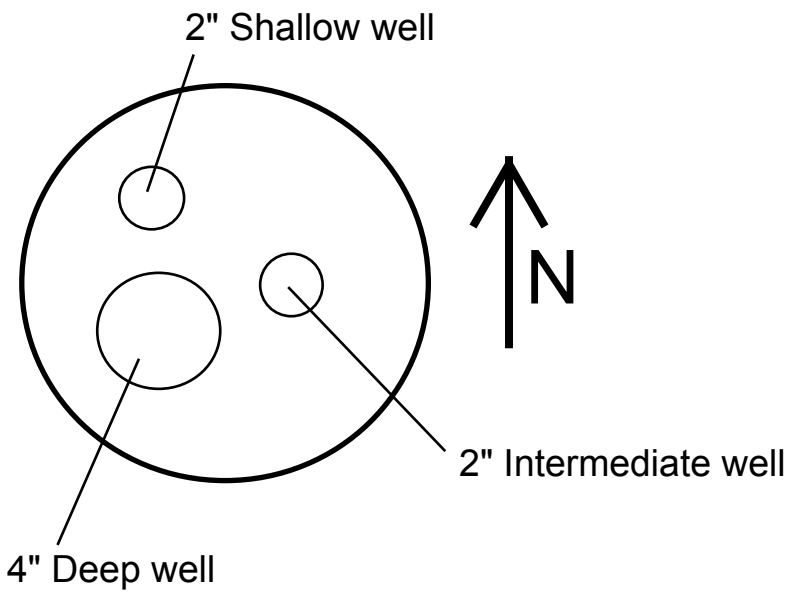
FORMER Y STATION
CLOVIS, NEW MEXICO
RW-3

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	305-315	SP		Sand with silt - very strong HC odor, as above.
	>15,000			SP		Sand with silt - very strong HC odor, as above.
		100	315-325	SP		Sand with silt - very strong HC odor, as above.
	27.9			SP		Sand with silt - very strong HC odor, as above.
		100	325-335	SP		Sand with silt - very strong HC odor, as above.
	NA			SP		Sand with silt - very strong HC odor, as above.
		100	335-345	SC	335-365	Clayey sand - yellowish red (5YR 4/6), fine grained, well sorted, rounded, low plasticity, medium dense, slightly moist, no odor.
	NA			SC		Clayey sand - as above.
		100	345-355	SC		Clayey sand - as above.
	NA			SC		Clayey sand with gravel - light brown (7.5YR 6/4), fine to coarse grained, poorly sorted, rounded to subangular, low plasticity, wet, gravel up to 3", odorless.
		100	355-365	SC		Clayey sand with gravel - as above.
	NA			SC		Clayey sand with gravel - as above.



Geologist: P. Feltman
Driller: Yellow Jacket Drilling
Drilling start date: 8/19/19
Well completion date: 8/30/19

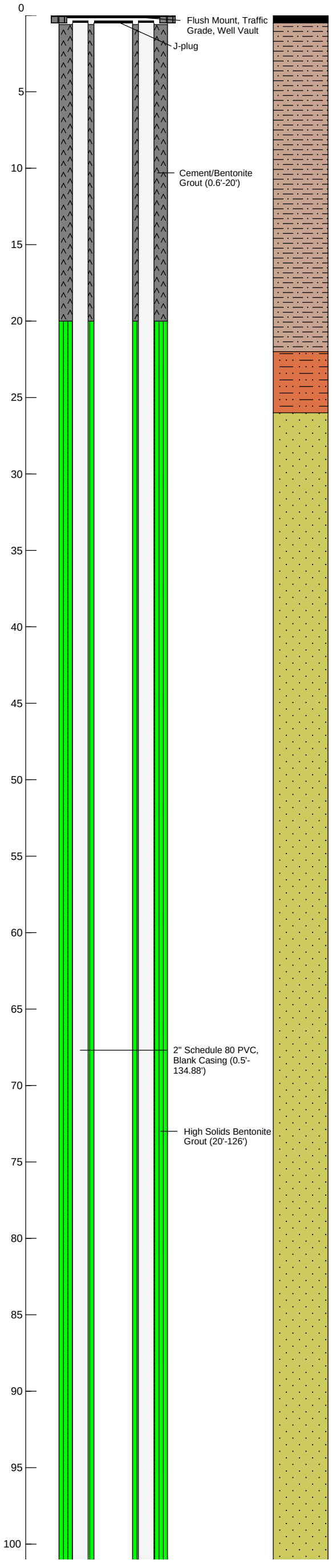
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245486.71 Elevation: 4278.78
Easting: 884251.49

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-3

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

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PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
			NA	0-0.5	Asphalt.
7.2	100	0-5	CL	0.5-22	Sand clay - brown (7.5YR 4/4), fine grained, well sorted, subrounded, moderate plasticity, loose to medium dense, slightly moist, no odor, calcium carbonate.
0.2	100	6-16	CL		Sandy clay - yellowish red (5YR 5/6), otherwise as above.
2.7	100	16-26	CL		Sandy clay - as above.
			SC	22-26	Clayey sand - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, low plasticity, partially cemented (calcium carbonate rich), dry, no odor.
			SC		Clayey sand - reddish yellow (5YR 6/6), with less calcium carbonate, loose, otherwise as above.
0.0	100	26-36	SP	26-347	Sand - pink (5YR 7/4), fine grained, well sorted, subrounded, non-plastic, loose to partially cemented, no odor, trace silt, calcium carbonate rich.
	100	34-46	SP		Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded, low plasticity (trace clay), loose, dry, no odor.
0.0			SP		Sand - no clay (non-plastic), trace calcium carbonate nodules, otherwise as above.
0.0	100	46-56	SP		Sand - as above.
			SP		Sand - pink (5YR 7/4), very high calcium carbonate concentrations, partially cemented, otherwise as above.
4.6	100	56-66	SP		Sand - light reddish brown (5YR 6/4), fine grained, well sorted, subrounded, non-plastic, partially cemented, dry, no odor, calcium carbonate rich, trace silt.
5.0	100	66-76	SP		Sand - loose, lower calcium carbonate concentration, otherwise as above.
0.8	100	76-86	SP		Sand - as above.
			SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, little to no calcium carbonate.
3.6	100	86-96	SP		Sand - as above.
0.0	100	96-104	SP		Sand - as above.

Geologist: H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 9/9/19
Well completion date: 9/9/19

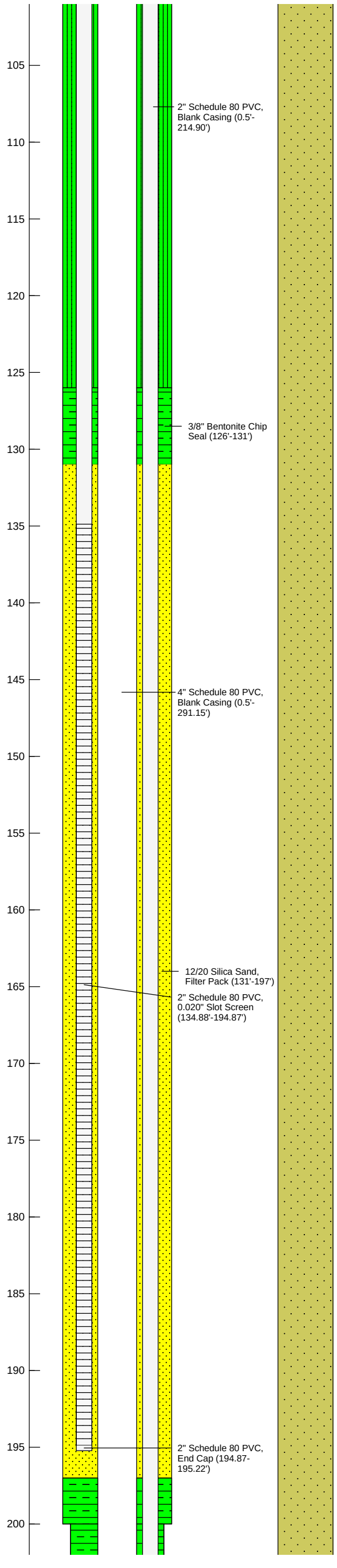
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245346.00 Elevation: 4278.84
Easting: 884279.77

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-4

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	0.6	100	104-108	SP		Sand - as above.
	0.0	100	108-116	SP		Sand - increased calcium carbonate concentrations (~15%) at 110', otherwise as above.
	2.9	100	116-126	SP		Sand - <10% calcium carbonate, otherwise as above.
	3.0	100	126-136	SP		Sand - as above.
	0.4	100	136-146	SP		Sand - as above.
	23.7	100	146-156	SP		Sand - as above.
	16.4	100	156-166	SP		Sand - as above.
	13.7	100	166-176	SP		Sand - less calcium carbonate, otherwise as above.
	19.5	100	176-182	SP		Sand - as above.
	92.4	100	182-192	SP		Sand - higher concentrations of calcium carbonate at 186'-187', otherwise as above.
	66.6	100	192-202	SP		Sand - as above.

Geologist: H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 9/9/19
Well completion date: 9/9/19

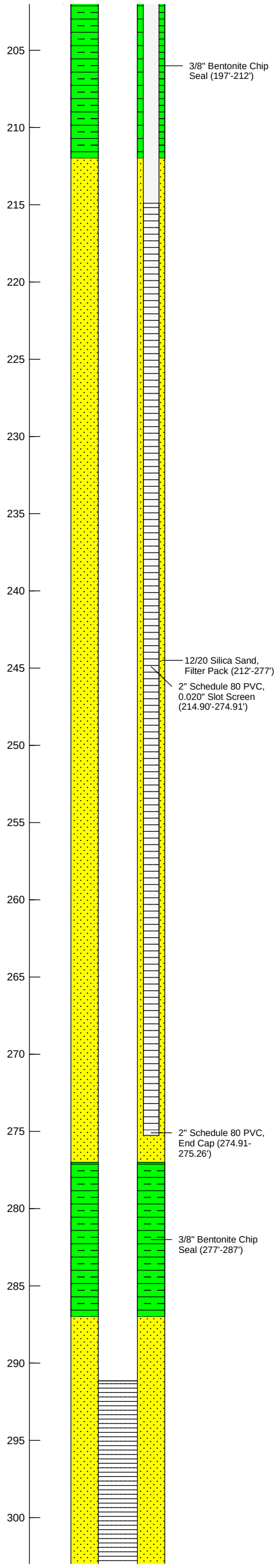
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245346.00 Elevation: 4278.84
Easting: 884279.77

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-4

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	26.7	10	208-216	SP		Sand - as above.
	27.8	100	216-226	SP		Sand - as above.
	2.8	100	226-236	SP		Sand - increased calcium carbonate at 228'-229', otherwise as above.
	2.0	100	236-246	SP		Sand - as above.
	234.6	100	246-256	SP		Sand - as above.
	31.3	100	256-266	SP		Sand - increased calcium carbonate at 262'-264', otherwise as above.
	119.6	100	266-276	SP		Sand - as above.
	270.9	100	276-286	SP		Sand - increased calcium carbonate concentration, otherwise as above.
	815	100	286-292	SP		Sand - less calcium carbonate, HC odor, otherwise as above.
	474.5	100	292-302	SP		Sand - strong HC odor, higher calcium carbonate concentration at 300'-301', otherwise as above.
	435.1	100	302-310	SP		Sand - HC odor, increased calcium carbonate at 308.5'-310', otherwise as above.

Geologist: H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 9/9/19
Well completion date: 9/9/19

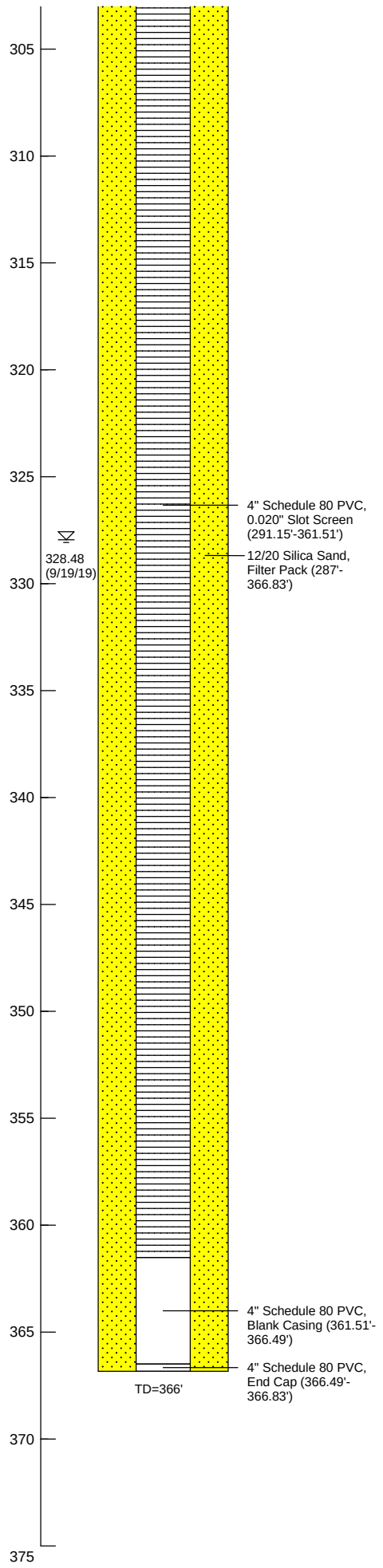
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

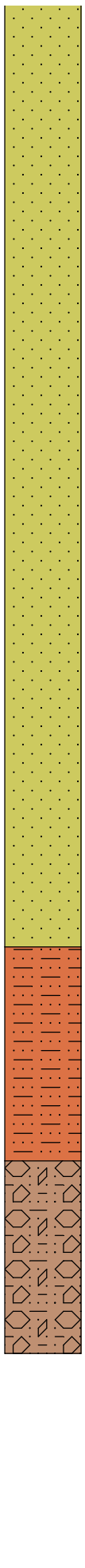
DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245346.00 Elevation: 4278.84
Easting: 884279.77

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-4

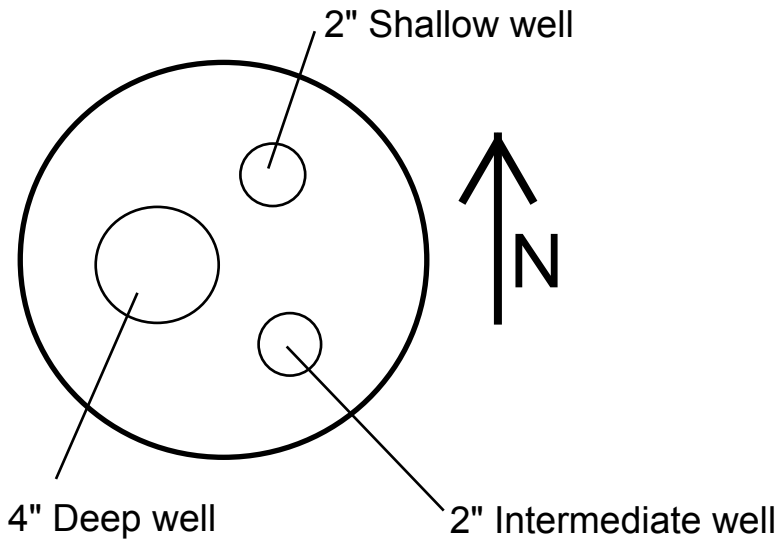
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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	448.6	100	310-316	SP		Sand - increased calcium carbonate, strong odor, moist, trace silt, otherwise as above.
	345.6	100	316-326	SP		Sand - as above.
	598.7	100	326-336	SP		Sand - as above, wet at 331'.
	NA	100	336-346	SP		Sand - with trace low plasticity clay, otherwise as above.
	NA	100	346-350	SP		Sand - as above.
				SC	347-357	Clayey sand - light reddish brown (5YR 6/4), fine grained, well sorted, subrounded, low plasticity, loose, saturated, HC odor.
	NA	100	350-360	SC		Clayey sand - as above.
				SW	357-366	Gravelly sand with clay - light reddish brown (5YR 6/3), fine grained, poorly sorted, subrounded, fine gravels, low plasticity, loose, calcium carbonate, damp to wet, HC odor.
	NA	100	360-366	SC		Gravelly sand with clay - as above.



Geologist: H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 9/9/19
Well completion date: 9/9/19

Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245346.00 Elevation: 4278.84
Easting: 884279.77

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-4

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

Appendix B

Survey Report

DBS&A
a Geo-Logic Company

LYDICK
ENGINEERS & SURVEYORS
CLOVIS, NEW MEXICO

Robert C. Lydick
Professional Engineer and Land Surveyor
New Mexico-Texas-Oklahoma-Colorado

The following coordinates for monitor well **RW-1, RW-2, RW-3, RW-4, BW-7R, BW-8, MW-11, MW-12, MW-13, and MW-16.** The remaining coordinates are for three sumps and three electrical junction boxes (EJB) which all coordinates included in the table below are located in the **CITY OF CLOVIS, CURRY COUNTY, NEW MEXICO** are located on New Mexico State Plane East Zone Grid:

NAD 83:

Monitor Wells, Sumps, & Electrical Junction Boxes						
Description	Northing	Easting	Top of Split Well Cap	Top of Casing Elevation	Top of Vault Elevation	Casing Size
RW-1	1245546.620	884125.544	4279.558	4279.538	N/A	4-inch
RW-2	1245416.895	884141.210	4278.970	4278.950	N/A	4-inch
RW-3	1245486.497	884251.597	4278.534	4278.514	N/A	4-inch
RW-4	1245345.739	884280.005	4278.098	4278.078	N/A	4-inch
BW-7R	1245210.173	884291.255	4277.575	4277.555	N/A	5-inch
BW-8	1245377.136	884091.745	N/A	4277.888	N/A	4-inch
MW-11	1244812.368	884413.001	4273.831	4273.811	N/A	5-inch
MW-12	1245128.130	884520.260	4277.320	4277.300	N/A	5-inch
MW-13	1244960.698	884269.944	4275.346	4275.326	N/A	5-inch
MW-16	1244755.633	884811.107	4276.039	4276.019	N/A	5-inch
SUMP 1	1245387.298	884276.500	N/A	N/A	4279.494	N/A
SUMP 2	1245388.757	884147.195	N/A	N/A	4279.411	N/A
SUMP 3	1245145.963	884372.923	N/A	N/A	4277.959	N/A
EJB 1	1245349.202	884278.436	N/A	N/A	4279.152	N/A
EJB 2	1245392.673	884146.711	N/A	N/A	4279.503	N/A
EJB 3	1245144.362	884436.894	N/A	N/A	4278.034	N/A

Robert C. Lydick

Robert C. Lydick P.E & L.S. No. 5955



205 E. Second St. • Clovis, New Mexico 88101 • P.O. Box 728 • Clovis, New Mexico 88102-0728
ph: 575-762-3771 • fax: 575-762-9093

Appendix C

Field Notes

DBS&A
a Geo-Logic Company

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

Site: Former Y Station	**Project Number:** DB18.1157
Staff Name: B. Constand	**Date/Time on Site:** 07/12/24 7:52

Compound Readings

Service Gas Meter (cf): (take photo) 35115	**Service Electric Meter (kWh): (take photo)** 097370

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
2623	0.0	1395	1348	60.3

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
47.9	120.3	777	2632.8	45.27

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
4003.2	53.5	1146.8

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
15032	15004	5.60

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
11:40	RW-1	3657.5	17.4	315330
	RW-2	2795.1	25.8	81393
	RW-3	3349.2	7.5	423547
	RW-4	3983.8	20.0	565803
	BW-7R	2976.8	5.7	115182
	MW-11	2673.8	1.3	249057
	MW-12	3335.8	26.1	347620
	MW-13	3282.6	19.1	168848
	MW-16	3882.2	28.1	112417

Sump Lines (Record Gallons Emptied)			Product Storage Tank (Measure in ft using interface probe)		
SVE Line 1	SVE Line 2	SVE Line 3	DTP	DTW	TD
			NM	Forgot to bring IF meter.	

Laboratory Samples Collected
Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
8:32	8:48	12:15	12:23	NS

Bottle Kits Remaining: 3 Tedlar Bags Remaining: 30

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 7/12/2024

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
12:18	SVE 1	* 754.9	979.99	2807	53.8	
12:16	SVE 2	8.7	245.75	2816	53.6	
—	SVE 3	NM				Valve closed
12:20	Combined Influent	393.6	1044.55	2992	54.2	
12:14	Oxidizer Effluent	27.1				

Field Measurements

GW Measurements					Vapor Measurements				
Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)		Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
14:50	RW-1	0	03155	No Flow	RW-1-S	265.0	49.26	2258	30.8
					RW-1-I	277.4	33.80	1549	31.0
					RW-1-D	1131	52.35	2400	30.8
12:47	RW-2	0	00430	No Flow	RW-2-S	* 1170	52.99	2429	33.5
					RW-2-I	1874	48.33	2215	32.3
					RW-2-D	1617	31.63	1450	32.5
14:30	RW-3	0	NM Well Vault Full of wires	0	RW-3-S	35.7 ~~27.2~~	34.66	1589	27.2
					RW-3-I	54.5 ~~27.5~~	27.36	1254	27.3
					RW-3-D	138.3 ~~27.0~~	NR water droplets in pipe	NR	26.0
14:03	RW-4	0	00990	3.5	RW-4-S	86.5	57.31	2627	36.2
					RW-4-I	144.2	50.19	2301	35.1
					RW-4-D	1396	48.78	2236	35.0
13:57	BW-7R	10	01152	3.6	BW-7R	24.8	70.14	3215	35.7
12:35	BW-8				BW-8-S	14.2	60.94	2793	31.7
					BW-8-I	50.9	42.86	1964	31.6
					BW-8-D	879.7	53.00	2429	31.7
13:26	MW-11	0	02479	No Flow	MW-11	NM	Valve closed		
13:40	MW-12	0	03499	No Flow	MW-12	44.3	72.60	3328	37.0
9:05	MW-13	0	01686	1.56	MW-13	NM	Valve closed		
10:37	MW-16	0	01731	Not Running	MW-16	61.9	104.80	4803	36.2

Sump Lines (Record Gallons Emptied)

North Sump (In RW-1)	West Sump (Glasses Parking Lot)	East Sump (Near RW-4)	South Sump (Near Domino's)
<0.25L	Dry	Dry	Dry in 8", 1gal. in 4"

[1]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

Site: Former Y Station	**Project Number:** DB18.1157
Staff Name: C Torres	**Date/Time on Site:** 1230 7/29/24

Compound Readings

Service Gas Meter (cf): (take photo) 4173700	**Service Electric Meter (kWh): (take photo)** NR

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
453	0	1400.	1342	59.1

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
51.0	125.2	754	3045.7	42.25

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
4416.2	53.5	1228.1

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
15854 000	15807000	18

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
1623 no read	RW-1	3659.8	0.0	315470
	RW-2	2795.1	26.0	81402
no ready	RW-3	3349.2	8.9	423547
	RW-4	4316.0	33.6	606055
—	BW-7R	3199.5	13.9	143762
no ready	MW-11	2673.8	1.6	249058
	MW-12	3335.8	26.1	347664
	MW-13	3695.6	20.6	199683
	MW-16	3882.2	26.3	112417

Sump Lines (Record Gallons Emptied)

SVE Line 1	SVE Line 2	SVE Line 3
Empty	Empty	Empty

Product Storage Tank (Measure in ft using interface probe)

DTP	DTW	TD
—	—	3.89

Laboratory Samples Collected

Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
1424	1405	1505		1453

Bottle Kits Remaining: _____ Tedlar Bags Remaining: _____

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 7/30/24

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
1522	SVE 1	916.2	685.52	1964	48.9	
1830	SVE 2	51.2	277.17	3176	47.9	
	SVE 3					Closed Valve
1520	Combined Influent	749.7	1003.68	2875	48.8	
1525	Oxidizer Effluent	55.9				

Field Measurements

GW Measurements

Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)
1933	RW-1	—		Shut off
1830	RW-2	—		Shut off
	RW-3	—		OFF
	RW-4	—		OFF
	BW-7R	45	744700	1.8
1902	BW-8			
0720	MW-11	—	SVE shut off well out of lids	
0704	MW-12	—		OFF
0724	MW-13	0	200300	1.5
2003	MW-16	—		Shut off

Vapor Measurements

	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
RW-1-S	242.3	54.17	2483	31.8
RW-1-I	304.8	35.35	1620	31.9
RW-1-D	992.3	54.48	2497	31.6
RW-2-S	1769	54.98	2520	33.6
RW-2-I	2342	48.15	2207	32.0
RW-2-D	2373	32.83	1505	33.1
RW-3-S	SHUT OFF		52	
RW-3-I				
RW-3-D				
RW-4-S	7.4	55.83	2559	35.4
RW-4-I	22.4	46.15	2115	34.5
RW-4-D	1830	44.17	2025	34.5
BW-7R	8.6	68.20	3120	35.0
BW-8-S	136.4	61.99	2842	31.5
BW-8-I	176.7	44.56	2043	31.6
BW-8-D	1066	50.97	2336	31.5
MW-11				OFF
MW-12	11.3	70.72	3241	36.2
MW-13	SVE OFF			
MW-16	41.8	114.52	5249	35.2

Sump Lines (Record Gallons Emptied)

North Sump (In RW-1)	West Sump (Glasses Parking Lot)	East Sump (Near RW-4)	South Sump (Near Domino's)
0	0	0	0

[1]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

Site: Former Y Station	Project Number: DB18.1157
Staff Name: Alex Nuñez-Thompson	Date/Time on Site: 8/14/24 @ 0747

Compound Readings

Service Gas Meter (cf): (take photo)	46,298,000	Service Electric Meter (kWh): (take photo)	112,225

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
731	0	1428	1379	62.6

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
56.8	122	755	3324.1	45

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
~~[illegible]~~ 4792.1	53.5	1261.6

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
1,620,400	1,614,500	17.6

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
0803	RW-1	3659.8	N/A (Reads 0)	315470
	RW-2	2795.1	25.9	81402
	RW-3	3349.2	7.1	423547
	RW-4	4318.8	33.5	606055
	BW-7R	3465.2	7.3	168515
	MW-11	2673.8	~~1.3~~ NR	249059
	MW-12	3358.9	17.7	352274
	MW-13	4071.5	20.9	212865
	MW-16	3882.8	26.2	112417

Sump Lines (Record Gallons Emptied)			Product Storage Tank (Measure in ft using interface probe)		
SVE Line 1	SVE Line 2	SVE Line 3	DTP	DTW	TD
NR →	→	→	NR →	→	→

Laboratory Samples Collected
Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
1648	1632	1715	1710	NR

Bottle Kits Remaining: a lot

Tedlar Bags Remaining: ~10

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date:

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
1553	SVE 1	1349	785.10	2249	57.7	
1553	SVE 2	77.9	293.00	3358	57.2	
NA →	SVE 3	NA →				Valve Closed
1553	Combined Influent	974.7	961.66	2755	58.5	
1553	Oxidizer Effluent	73.3				

Field Measurements

GW Measurements

Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)
1015	RW-1	~~NA~~ NA →	well offline →	
	RW-2	NA →	well offline →	
1046	RW-3	NA →	well offline →	
1052	RW-4	NA →	well offline →	
1108	BW-7R	64	1.92 ↔ 168512	
1726	BW-8			
1524	MW-11	NA →	well pump out of hole →	
1606	MW-12	62	356273	3.8
~~1609~~	MW-13	NA Valve Closed →		
	MW-16	NA →		

Vapor Measurements

	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
RW-1-S	249.6	61.18	2804	39.1
RW-1-I	260.8	42.00	1925	39.6
RW-1-D	1035	64.93	2976	39.1
RW-2-S	1759	59.88	2744	42.1
RW-2-I	2419	54.32	2490	40.8
RW-2-D	3057	40.41	1852	40.9
RW-3-S				
RW-3-I	NA →	Valves Closed Pump open →		
RW-3-D				
RW-4-S	15.3	70.68	3240	47.8
RW-4-I	16.3	58.94	2702	46.2
RW-4-D	1841	58.68	2690	46.1
BW-7R	24.4	79.61	3649	43.2
BW-8-S	42.0	72.08	3304	39.2
BW-8-I	25.5	~~2~~51.63	2366	39.4
BW-8-D	874.7	58.51	2682	39.3
MW-11	NA →			
MW-12	~~2~~21.1	82.65	3788	43.7
MW-13	~~4~~ NA valve	Closed →		
MW-16	NR →			

Sump Lines (Record Gallons Emptied)

North Sump (In RW-1)	West Sump (Glasses Parking Lot)		East Sump (Near RW-4)	South Sump (Near Domino's)

[1]Only found on the oxidizer main screen, not the H2K HMI

[2]Process Transmitter Information screen

[3]Motor Control screen (1, 2, or 3)

[4]Flow Totals

[5]Well Level Information

[6]Record old Pulsafeeder and new meter

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

Site: Former Y Station	Project Number: DB18.1157
Staff Name: M. Salazar & I. Torres	Date/Time on Site: 08/26/24 09:36

Compound Readings

Service Gas Meter (cf): (take photo) ~~07ms~~ 06035	Service Electric Meter (kWh): (take photo) 118268

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
3609 ~~2609 ms~~	0%	1392	1336	87.4 %

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
62.5	130.2	727	3613.5	45

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
5082.2	53.5	1291.6

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
~~1645300 MS~~	1645300	18

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
0950	RW-1	3659.8	-	315470
	RW-2	2800.8	-	81404
	RW-3	3349.2	-	423547
	RW-4	4318.8	33.6	606088
	BW-7R	3683	6.5	187953
	MW-11	2673.8	-	249089
	MW-12	3414.2	26.0	364186
	MW-13	4282.7	21.0	219135
	MW-16	3882.8	26.4	112417

Sump Lines (Record Gallons Emptied)			Product Storage Tank (Measure in ft using interface probe)		
SVE Line 1	SVE Line 2	SVE Line 3	DTP	DTW	TD
0.5	-0.0	-0.0	-	-	3.947

Laboratory Samples Collected
Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
1003	1040	0855	0905	1025

Bottle Kits Remaining: _____ Tedlar Bags Remaining: _____

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 08/26/2024

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
0920	SVE 1		717.41	2055	65.9	
0925	SVE 2		286.12	3279	64.7	
	SVE 3					
0905	Combined Influent		946.96	2713	66.7	
0855	Oxidizer Effluent	72.4				

Field Measurements

GW Measurements

Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)
1616	RW-1	8	Off	
	RW-2		Off	
	RW-3		Off	
1325	RW-4		Off	
08/25 1830	BW-7R	79	186600	12.5
0743	BW-8			
~~1345~~	MW-11		Off	
1245	MW-12	45	366500	4
08/25 1735	MW-13	18	218500	3.5
1345	MW-16		Off	

Vapor Measurements

	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
RW-1-S		270.67	3107	42.4
RW-1-I		174.36	1998	42.7
RW-1-D		281.18	3222	42.2
RW-2-S	>5000	75.97	3482	46.3
RW-2-I	>5000	70.24	3219	45.8
RW-2-D				
RW-3-S				
RW-3-I				
RW-3-D				
RW-4-S	-	302.30	3464	52.3
RW-4-I	-	241.01	2762	50.7
RW-4-D	-	248.69	2850	~~52.3~~ ms 50.5
BW-7R	-	88.14	4040	47.2
BW-8-S	4.6	84.65	3880	45.8
BW-8-I	17.1	62.89	2883	46.1
BW-8-D	>5000	70.33	3224	45.9
MW-11	Off			
MW-12	-	346.88	3975	46.7
MW-13	SVE	Shut Off	-	-
MW-16		498.56	5713	47.6

Sump Lines (Record Gallons Emptied)

North Sump (In RW-1)	West Sump (Glasses Parking Lot)		East Sump (Near RW-4)	South Sump (Near Domino's)

[1]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

Site: Former Y Station	**Project Number:** DB18.1157
Staff Name: B. Constand	**Date/Time on Site:** 09/12/2024 7:06

Compound Readings

Service Gas Meter (cf): (take photo) 56396	**Service Electric Meter (kWh): (take photo)** 126740

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
3941	0.0	1474	1399	0.0

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
64.7	122.9	~~0.8~~ 739	3953.1	45.24

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
5489.5	53.5	1386.7

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
17552 x100	1744967.34	6.625

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
9:56	RW-1	3790.3	0.0	315470
	RW-2	2800.8	0.8	81404
	RW-3	3678.2	32.6	423561
	RW-4	4319.0	33.5	606055
	BW-7R	3877.0	13.7	206355
	MW-11	2798.4	115.0	268157
	MW-12	3678.1	14.6	411701
	MW-13	4611.1	21.3	228862
	MW-16	3883.4	26.2	112417

Sump Lines (Record Gallons Emptied)			Product Storage Tank (Measure in ft using interface probe)		
SVE Line 1	SVE Line 2	SVE Line 3	DTP	DTW	TD
Not Emptied			NM		

Laboratory Samples Collected
Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
7:28	7:21	10:14	10:09	—

Bottle Kits Remaining: 6 Kits, 4 Trip Blanks Tedlar Bags Remaining: Need More

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 9/12/24

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
10:00	SVE 1	519.9	917.49	2628	68.1	
	SVE 2	20.0	237.45	2721	67.9	
	SVE 3	NM				Line closed
	Combined Influent	398.5	961.41	2754	68.6	
	Oxidizer Effluent	44.0				

Field Measurements

GW Measurements

Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)
11:45	RW-1	0	03155	Pump off
12:13	RW-2	0	00430	No Pump
11:26	RW-3	0	04372	0.16
11:11	RW-4	0	00990	Pump off
10:45	BW-7R	10	02062	0.73
12:00	BW-8			
10:37	MW-11	0	02459	Pump off
—	MW-12	NM Car parked over		
11:05	MW-13	25	02289	0.62
10:30	MW-16	0	01731	Pump off

Vapor Measurements

	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
RW-1-S	243.2	65.29	2993	45.0
RW-1-I	312.0	43.15	1978	45.3
RW-1-D	805.1	67.56	3097	44.7
RW-2-S	NM (valve closed)			
RW-2-I				
RW-2-D				
RW-3-S	34.7	53.29	2443	47.8
RW-3-I	17.3	42.80	1962	47.8
RW-3-D	1215	63.52	2911	47.8
RW-4-S	7.2	73.70	3378	50.0
RW-4-I	26.1	61.68	2827	48.4
RW-4-D	~~48~~ 695.4	57.24	2624	48.3
BW-7R	SVE Valve closed NM			
BW-8-S	63.1	77.16	3537	44.1
BW-8-I	125.6	57.61	2641	44.3
BW-8-D	841.5	68.44	3137	44.1
MW-11	NM SVE Valve closed			
MW-12				
MW-13	NM SVE Valve closed			
MW-16	37.4	Water in Line NM		51.1

Sump Lines (Record Gallons Emptied)

North Sump (In RW-1)	West Sump (Glasses Parking Lot)		East Sump (Near RW-4)	South Sump (Near Domino's)
Not Emptied				

[1]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

Site: Former Y Station	**Project Number:** DB18.1157
Staff Name: B. Constand	**Date/Time on Site:** 09/25/2024 12:41

Compound Readings

Service Gas Meter (cf): (take photo) 60467	**Service Electric Meter (kWh): (take photo)** 133416

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
4254	0.0	1390	1322	69.4

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
73.8	131.0	508	4266.4	33.18

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
5807.8	53.5	1447.0

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
18047	1793721.42	7.2

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
14:44	RW-1	3791.5	0.0	315470
	RW-2	2800.8	1.0	81404
	RW-3	3996.2	32.6	423629
	RW-4	4319.0	33.5	606055
	BW-7R	3929.9	14.6	221156
	MW-11	2799.2	0.0	268168
	MW-12	3996.4	25.5	470118
	MW-13	4929.5	21.7	232669
	MW-16	3885.4	26.2	112417

Sump Lines (Record Gallons Emptied)			Product Storage Tank (Measure in ft using interface probe)		
SVE Line 1	SVE Line 2	SVE Line 3	DTP	DTW	TD
0	0	0	NM (Forgot IFM)		

Laboratory Samples Collected

Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
11:20	11:31	10:47	10:55	10:51

(9/26) →

Bottle Kits Remaining: 4 Tedlar Bags Remaining: Need More

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 09/25/2024

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
9/26	SVE 1	696.6	804.02	2303	75.3	
—	SVE 2	NM (Valve closed to Line)				
—	SVE 3	NM (Valve Closed to Line)				
9/26	Combined Influent	640.1	608.23	1742	75.7	
	Oxidizer Effluent	4.4				
	DTA Eff	2.2				

Field Measurements

GW Measurements

Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)
9/26 8:19	RW-1	0	0315465.53	— NM Pump off
8:42	RW-2	0	00430	— No Pump
7:58	RW-3	0	0450456.25	— NM No Flow
7:47	RW-4	0	0099908.43	— NM Pump off
7:40	BW-7R	2	0221657.94	5.3
8:57	BW-8			
14:13	MW-11	0	02460	— Pump off
14:00	MW-12	0	~~1.5~~ 05108	1.51
14:21	MW-13	0	0232643.19	0.6 | 1.12 on 9/26
14:15	MW-16	0	01731	— Pump off

Vapor Measurements

	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
RW-1-S	229.0	77.15	3536	51.8
RW-1-I	304.6	53.07	2433	52.3
RW-1-D	1079	83.75	3839	51.6
RW-2-S	NM (Valves Closed)			
RW-2-I				
RW-2-D				
RW-3-S	NM (Valve closed)			
RW-3-I	NM (Valve Closed)			
RW-3-D	1780	89.31	4094	62.2
RW-4-S	NM (Valve closed)			
RW-4-I	NM (Valve Closed)			
RW-4-D	898.1	85.76	3931	63.8
BW-7R	NM (Valve Closed)			
BW-8-S	71.9	90.41	4144	50.7
BW-8-I	140.9	67.38	3088	50.9
BW-8-D	877.6	83.82	3842	50.7
MW-11	NM (valve Closed)			
MW-12	1.9	0.02	1	2.2
MW-13	NM (Valve Closed)			
MW-16	NM (Valve closed)			

Sump Lines (Record Gallons Emptied)

North Sump (In RW-1)	West Sump (Glasses Parking Lot)	East Sump (Near RW-4)	South Sump (Near Domino's)
0	0	0	0

[1]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

Site: Former Y Station	Project Number: DB18.1157
Staff Name: R.Villanueva	Date/Time on Site: 10/7/24 @ 1245

Compound Readings

Service Gas Meter (cf): (take photo) 70536	Service Electric Meter (kWh): (take photo) 138462

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
1960	0.0 %	1396	1326	68.8

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
73.9	129.9	513	4553.0	33.0

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
6044.5	53.5	1478.6

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
18173 ~~18062~~	1806363.52	6.5

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
13:26	RW-1	3791.5	10.0	315470
	RW-2	2800.8	1.0	81404
	RW-3	4283.1	32.7	423629
	RW-4	4319.0	33.6	606055
	BW-7R	3970.8	6.8	234011
	MW-11	2799.2	0.0	268168
	MW-12	4283.2	31.2	470616
	MW-13	5216.3	20.1	250650
	MW-16	3885.4	26.2	112417

Sump Lines (Record Gallons Emptied)			Product Storage Tank (Measure in ft using interface probe)		
SVE Line 1	SVE Line 2	SVE Line 3	DTP	DTW	TD
∅	∅	∅	∅	∅	3.90

Laboratory Samples Collected
Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
15:45	15:35	10:20	10:15	—

Bottle Kits Remaining: 7 Tedlar Bags Remaining: Need More

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 10/7/24

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
0710	SVE 1	620.8	467.69	1882	70.6	
—	SVE 2	Nm (valve closed to line)				
—	SVE 3	Nm (valve closed to line)				
1101	Combined Influent	562.4	467.69	1882	70.6	
1105	Oxidizer Effluent	48.0				

Field Measurements

GW Measurements

Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)
10/7	RW-1	ϕ	031553.56	
	RW-2	ϕ	0430	No Pump
1445	RW-3	ϕ	450552.65	Nm No flow
	RW-4	ϕ	0049.0	Nm Not Pumpoff
1415	BW-7R	ϕ	233761.53	5.5
10/8 1120	BW-8			
1345	MW-11	ϕ	0426	Pump off
1405 ~~1355~~	MW-12	ϕ	05108	Pump off
1435	MW-13	ϕ	0230774.98	1.25
1355	MW-16	ϕ	01731	Pump off

Vapor Measurements

	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
RW-1-S		67.02	2238	49.2
RW-1-I		49.26	2181	49.7
RW-1-D		79.51	3588	49.1
RW-2-S				
RW-2-I	Nm (valve closed)			
RW-2-D				
RW-3-S	Nm (valve closed)			
RW-3-I	Nm (valve closed)			
RW-3-D	1460	87.04	4742	57.8
RW-4-S	Nm (Valve ~~off~~ closed)			
RW-4-I	Nm (Valve closed)			
RW-4-D		92.26	~~92.26~~ 3554	62.5
BW-7R	Nm (valve closed)			
BW-8-S	68.4	84.32	3842	48.2
BW-8-I	246.2	61.81	3241	48.3
BW-8-D	832.8	72.46	3426	48.3
MW-11	Nm (valve closed)			
MW-12	Nm (valve closed)			
MW-13	Nm (Valve closed)			
MW-16	Nm (valve closed)			

Sump Lines (Record Gallons Emptied)

North Sump (In RW-1)	West Sump (Glasses Parking Lot)	East Sump (Near RW-4)	South Sump (Near Domino's)
ϕ	ϕ	ϕ	ϕ

[1]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

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PUMPING CONDITIONS

GROUNDWATER ELEVATION DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: MS/IT
Date: 08/23/2024
Sheet # 1 of 2

Well ID	Depth to NAPL	Depth to Water	Total Depth	Comments
BW-4		**332.73**		
BW-5		332.18		
BW-6		333.23		No sleeve ~~or tether~~
BW-7		331.39		
BW-8		330.9		
BW-9		331.98		Replaced weight
BW-10		329.70		
MW-14		**326.47**		
MW-15		**323.26**		
MW-17		332.87		Replaced Cord

Comments:

MW-10 329.70
MW-9

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Pumping Conditions
GROUNDWATER ELEVATION DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: B Constand
Date: 08/25/2024
Sheet # 2 of 2

Well ID	Transducer Set Pt	Transducer Level (WL above transducer)	Depth to water (set pt – Lvl)	Comments
BW-7R		6.0		
RW-1		NR		
RW-2		26.1		
RW-3		7.8		
RW-4		33.5		
MW-11		1.4		
MW-12		26.0		
MW-13		21.7		
MW-16		26.3		

Comments:

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STATIC CONDITIONS

GROUNDWATER ELEVATION DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: B. Constand
Date: 08/29/2024
Sheet # 1 of 2

Well ID	Depth to NAPL	Depth to Water	Total Depth	Comments
BW-4	—	332.37		
BW-5	—	331.84		
BW-6	—	332.99		
BW-7	—	331.11		
BW-8	—	330.87		
BW-9	—	331.69		
BW-10	—	329.43		
MW-14	—	322.13		
MW-15	—	326.40		
MW-17	—	332.66		

Comments:

DBS&A
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Static Conditions
GROUNDWATER ELEVATION DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: B. Constand
Date: 08/29/2024
Sheet # 2 of 2

Well ID	Transducer Set Pt	Transducer Level (WL above transducer)	Depth to water (set pt – Lvl)	Comments
BW-7R		27.9		
RW-1	354	0.0		
RW-2		1.0		
RW-3		33.3		
RW-4		34.1		
MW-11		115.0		
MW-12	357.7	33.4		
MW-13	348	22.0		
MW-16	358	26.9		

Comments:

BW-7R No pump set point on Vault Cover.
RW-4 set point 365.5 ?
RW-3 No set point on Vault Cover.

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GROUNDWATER METER CALIBRATION SHEET

Project Name: Formerly
Project #: DB18.1157
Project Manager: Grace Herman

Sampler: MS KT
Date: 8/26/24

pH	Temp (°C)	Comments
(4) 3.99	28.6	
(7) 7.00	28.7	
(10) 10.00	29.5	
SpCon (µs/cm)	Temp (°C)	Comments
(1413) 1413	31.9	
ORP (mv)	Temp (°C)	Comments
220	30.8	
Dissolved O_2	Temp (°C)	Comments
(%) 86.3	29.3	
(mg/L) 6.33	29.6	
Pressure	Temp (°C)	Comments
686.2 (mmHg)	29.8	

Comments:

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GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: Israel Torres / Mercedes
HS Deploy Date/Time: 08/25/24 13:16
Sample Data/Time: 08/26/24 1400

Well #: ~~MW-15 ms~~ MW-14
Well Diameter: 4 (inches)
Depth to Water: 223.24 (feet btoc)
Total Depth of Well: _____ (feet)

Height of Water Column: _____ (feet)
Sample Method: Grab / ~~HydraSleeve~~
HS Set Point: ~~36 ms~~ 338 feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.81	22.8	781	1020	4.7	Clear

Sample Description: 5 VOAs

Physical Observations: Clear, some rust colored sed at bottom of sleeve

Analytical Method(s): 8260 B 504.1

Other notes (well condition, difficulties, corrective actions):
~~Replaced tether~~ ms

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GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: MS / IT
HS Deploy Date/Time: 1340
Sample Data/Time: 08/26/24 1425

Well #: ~~MW-14~~ MS/MW-15
Well Diameter: 5 (inches)
Depth to Water: 226.47 (feet btoc)
Total Depth of Well: _____ (feet)

Height of Water Column: _____ (feet)
Sample Method: Grab / HydraSleeve
HS Set Point: 344.3 feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.68	22.4	799	107.9	1.6	—

Sample Description: 5 VOAs

Physical Observations: Clear, No Odor, some Brown Sediment @ bottom of sleeve

Analytical Method(s): 8260 B 300.1

Other notes (well condition, difficulties, corrective actions):

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GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: MS/IT
HS Deploy Date/Time: 08/25/405
Sample Data/Time: 08/26/24 1450

Well #: MW-17
Well Diameter: 5 (inches)
Depth to Water: 332.87 (feet btoc)
Total Depth of Well: _____ (feet)

Height of Water Column: _____ (feet)
Sample Method: ~~Grab~~ / HydraSleeve
HS Set Point: 346.25 feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.54	22.7	780	85.5	5.3	—

Sample Description: 5 VOAs

Physical Observations: Clear, Odorless

Analytical Method(s): 8260B 504.1

Other notes (well condition, difficulties, corrective actions):
Replaced Tether

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GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: MS/IT
HS Deploy Date/Time: 8/25/24 1435
Sample Data/Time: 08/26/24 1525

Well #: BW-4
Well Diameter: 5 (inches)
Depth to Water: 322.73 (feet btoc)
Total Depth of Well: _____ (feet)

Height of Water Column: _____ (feet)
Sample Method: Grab / ~~HydraSleeve~~
HS Set Point: 339 feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.51	22.6	837	91.1	6.3	-

Sample Description: 5 VOAs

Physical Observations: Clear, Odorless

Analytical Method(s): 8260B 504.1

Other notes (well condition, difficulties, corrective actions):

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GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: MS/IT
HS Deploy Date/Time: 08/23 1550
Sample Data/Time: 08/20/24 1650

Well #: BW-8
Well Diameter: 8 (inches)
Depth to Water: 330.90 (feet btoc)
Total Depth of Well: _____ (feet)

Height of Water Column: _____ (feet)
Sample Method: Grab / HydraSleeve
HS Set Point: _____ feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.2	22.3	1096	-170.9	1.1	-

Sample Description: 8 VOAs

Physical Observations: Grayish, very turbid. ~ 1 tbsp of suspended sediment in sleeve, Very strong HC odor

Analytical Method(s): 8260B 504.1

Other notes (well condition, difficulties, corrective actions):
Suction very intense, valve shut off to deploy.

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GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: ~~BW-7 MS~~ MS/IT
HS Deploy Date/Time: ~~1645 MS~~ 08/25/24 1640
Sample Data/Time: 08/26/24 1720

Well #: BW-7
Well Diameter: 8 in (inches)
Depth to Water: 331.39 (feet btoc)
Total Depth of Well: _____ (feet)

Height of Water Column: _____ (feet)
Sample Method: Grab / ~~HydraSleeve~~
HS Set Point: 338 feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.47	23.8	737	-16.5	3.6	—

Sample Description: 5 VOAs

Physical Observations: Clear, No Sediment

Analytical Method(s): 8260 B SO4.1

Other notes (well condition, difficulties, corrective actions):
Screen came up only 1/2 filled

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GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: MS/IT
HS Deploy Date/Time: ~~1445~~ MS 08/25/24 1655
Sample Data/Time: 08/26/24 1755

Well #: BW-5
Well Diameter: 5 (inches)
Depth to Water: 332.18 (feet btoc)
Total Depth of Well: _____ (feet)

Height of Water Column: _____ (feet)
Sample Method: Grab / HydraSleeve
HS Set Point: 345 feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.35	20.9	964	-92.2	0.8	—

Sample Description: 5 VOAs

Physical Observations: Grayish, Turbid, ~ 1/2 tbsp black sediment suspended in sleeve, Strong HC odor

Analytical Method(s): 8260B SO4.1

Other notes (well condition, difficulties, corrective actions):

DBS&A
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GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station
Sampler: MS/IT
Project #: DB18.1157
HS Deploy Date/Time:
Project Manager: G. Herrmann
Sample Data/Time: 08/26 ~~1245~~ MS 1300

Well #: MW-12
Well Diameter: (inches)
Height of Water Column: (feet)
Depth to Water: (feet btoc)
Sample Method: (Grab) / HydraSleeve
Total Depth of Well: (feet)
HS Set Point: feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.37	21.6	674	136.3	25	odorless Clear

Sample Description: ~~Clear, Odorless~~ 5 VOAs

Physical Observations: Clear, Odorless, slight septic scent

Analytical Method(s): 8260B 504.1

Other notes (well condition, difficulties, corrective actions):

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GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: MS/IT
HS Deploy Date/Time: —
Sample Data/Time: 08/28/24 1755

Well #: MW-13
Well Diameter: _____(inches)
Depth to Water: _____(feet btoc)
Total Depth of Well: _____(feet)

Height of Water Column: _____(feet)
Sample Method: (Grab) / HydraSleeve
HS Set Point: _____feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.40	28.4	886	84.7	21	Clear

Sample Description: 5 VOAs

Physical Observations: Clear, slight petroleum smell

Analytical Method(s): 8260B 504.1

Other notes (well condition, difficulties, corrective actions):

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GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: IT/MS
HS Deploy Date/Time: _____
Sample Data/Time: 08/25/24 1830

Well #: BW-7R
Well Diameter: _____(inches)
Depth to Water: _____(feet btoc)
Total Depth of Well: _____(feet)

Height of Water Column: _____(feet)
Sample Method: (Grab) / HydraSleeve
HS Set Point: _____feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.42	23.9	829	186.0	3.0	Clear

Sample Description: 5 VOAs

Physical Observations: Clear, very light HC odor

Analytical Method(s): 8260B 504.1

Other notes (well condition, difficulties, corrective actions):

5/22/24 RY CT

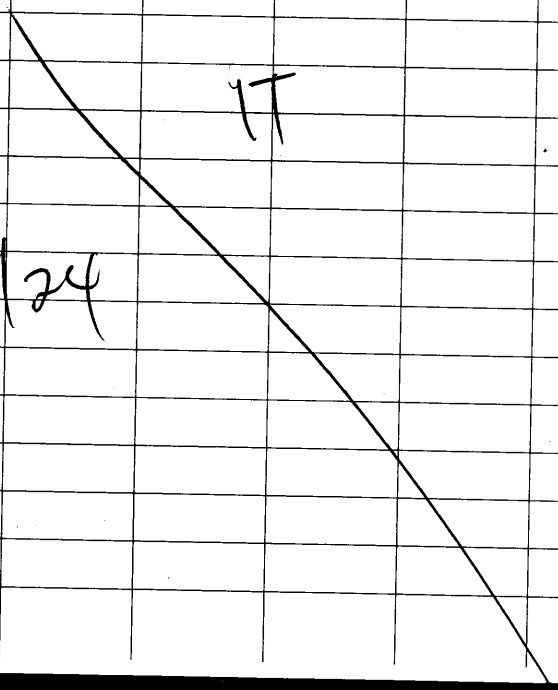
Ben indicated Rw-3 must be pulled out. Rw-1 may need to be pulled out as well. Rw-2 may need a stronger pump. Ben will work on calculations.

SVE System Shut down

1122 McNeil offsite

Contractors are locked

Called Alex to update LT/RV offsite



5/22/24

06/18/24 Former Y BC

8:15 Ben Mcneil onsite, Purpose:
Install New actuator Valve on oxidizer. Install 9 HOA switches and Install New starter on the Discharge Pump.
Weather, 82°F Sunny & Breezy.

10:14 BC onsite.
Opened all SVE Valves @ wellheads except For MW-11 & MW-12 as Cars are parked over well Vaults.
Ben Replaced all 9 HOA switches and Actuator Valve, adjusted Valve w/help of John Stacy over phone.

12:55 Started-up SVE System.

13:20 Started Pumps For Water Treatment System, except For wells RW-2, RW-3 & MW-11.

13:38 Shut-Down Oxidizer, to make Sure it will Start-up w/o Issues.

15:05 Re-started Oxidizer.
Electrician w/Excel energy on-site, Looked at meter and Checked Supplied Voltages
Ben asked him to See what he Can do to have All Three phases more similar <4%
He said that he will get w/his engineer and See what Can be done.

06/18/24 Former Y BC

17:44 Begin Calibrating PID SN: 592-926669
Zero Cal. (Fresh Air) = 0.0 ppm
100 ppm Isobutylene = 99.9 ppm

	PID
OX Effluent	45.8 ppm
Line 1	1080 ppm
Line 2	17.5 ppm
Comb. Inf.	914.1 ppm
DTA	12.4 ppm.

18:58 BC & Ben offsite to Get Dinner and let Oxidizer Cool Down. Ben is Concerned Voltage Difference b/c 3 phase Could be Causing Issues w/ motors wants to check Voltage with No Current Draw.

20:13 BC + Ben back-onisite, Oxidizer has Reached Cooldown Setpoint. Voltage Difference has Decreased From 4.2 to 3.7. Will Check again in the

20:18 Morning. BC + Ben offsite, Locked & Secured site. All Systems Powered off, except Vents + Cooling. BC

6/18/24

06/25/2024 Former Y BC

9:12 BC onsite, Purpose: Reinstall Well pump in MW-11. Install Check Valves in water Lines of Wells (BW-7R, MW-11, MW-12, MW-13 & MW-16) Weather, 82°F, Mostly Cloudy.

9:20 Begin Placing Cones on Wells in order to keep Well Vaults accesable.

10:55 Clay Barnhill and Joe on-Site. ~~Begin~~ BC

Begin Connecting Motor Leads to Pump and Sealing wire splices w/ water well Splice Kit.

Ran Pump in Drum full of Water, VFD Screen showed Power Climbed to ~8Hz and would never go above 9Hz. Shut Down Pump. Pulled Impellar Stack off of Motor, Ran Motor to 60Hz w/ No Issues.

Pulled Pump to RW-3, tested pump in Drum of water, No flow or Motor Sound. Hauled Drop Pipe to Compound For Storage. Placed all wires & Pump back into Vault.

18:32 Locked & Secured Site, BC + CB offsite BC

6/25/24

06/26/2024 Former Y BC

8:05 BC + Clay & Joe on-site.
Purpose: Dissconnect Well Pump @ RW-3, to transport back to Abq, For troubleshooting & Repairs.
Weather, 82°F & Sunny.
Succesfully Pulled and Removed Pump From RW-3.
Locked and Secured site,
8:52 BC + Clay + Joe offsite.

BC
6/26/24

07/11/24 Former Y BC/VF

11:26 BC + VF onsite, purpose Start-up SVE System, Perform System O&M.
Install Check Valves on Wells, (BW-7R, MW-11, MW-12, MW-13 & MW-16)
Weather, 88°F Sunny & Light Breeze.
11:43 Started SVE System.
11:46 Begin placing Cones over Wells.
Installed Check-Valve in BW-7R.
17:52 Locked & Secured Site, BC + VF offsite.
- See pics For BW-7R

BC
7/11/24

7/12/24 Former Y BC/JF

7:52 BC + JF onsite. Purpose O&M and Install Check Valves.
Weather: 80°F, Sunny.
* SVE Currently off
• Alarm "Low Gas Pressure" on 7/11 @ 11:24 P.M.

9:26 Reset Alarm and started-up SVE.
UnPlugged Main HMI and Re-plugged back in.
Installed Check Valve on MW-13 & MW-16.

11:21 Begin Collecting O&M Measurements.

11:50 PID S/N: 592-926669
Zero Cal. (Fresh Air) = 0.0 ppm
100ppm Isobutylene = 100.0ppm
Completed System O&M.
Pumped Site Sumps.
Installed Check Valve in MW-11.

16:18 All Samples on Ice, Locked & Secured Site, BC + JF offsite.
Adjusted BW-7R to ~50 psi.
* Replaced Dessicant in Transducers if Needed.

BC 7/12/24

IT O&M 7/29/24

1230 IT onsite, weather is 97°F Mostly Clear Skies. Began usual inspection of Site.
Noticed Several areas by SVE Container and by Gas Oxidizer gas lines, Silversay Elm Brush growing need to Cut and spray roundup
1310 Sent Grace photos of the Brush. I will cut and spray weed killer on them.
taking down equipment and ice chests. took Lunch Break
1405 taking FX Raw Sample
1424 taking FX Treated Eff
1453 took DTA Sample
1505 took OX Eff Sample
1513 took Comb INF
1539 Calibrating YSI Honeywell Minirae Light + SN 590-908578
Zero- 0.0 ppm
Span - 98.7 ppm

7/29/24 O&M well measurements IT

1630 phone call w/ Grace she sent screen shots of HMI & Oxidizer Screens. She asked if I was going to take a DTA Sample. my Response.. I already did.
1830 at RW-2 taking Readings
1906 @ BW-8 " "
1933 @ RW-1 " "
pump is shut off as per Graces Conversation Pump not running no Flow indication on flow meter.
2008 @ MW-16 " "
Pump shut off
2015 O&M & well measurments Completed for the day will be back tomorrow for the rest of the wells. Samples are on ice

IT

7/29/24

IT O&M well measurments 7/30/24

0650 IT on site @ MW-12 weather is 70°F Clear Skies light Breeze. Calibrating YSI zero — 0 Span — 100.0
0704 Begin well measurements
0720 @ MW-11 Pump out of hole SVE shut off due to no J Plug in on well casing.
0738 @ BW 7R taking measurments
0804 @ RW 4 no Flow, open sample funcet, Flow begins but in Reverse Flow.
0851 @ RW-3 Closed SVE valves, all 3 open pump not in hole well measurements Complete Back at Compound Previous phone call w/ grace need to Check inlet water line for possible 1 way check

7/30/24 O&M well measurements IT

Inspected Panel, turned MW-12 to Auto, RW-4 is on auto but indicator light not on. Phone call w/ Grace let her know. She said to check MW-12 in ½ hour. Cleaned branches from conduits and gas line sprayed Bush killer. locked all containers locked Compound. Going to Fuel up and buy More ice for Samples then Check on MW-12.

1005 Checked on MW-12 no Flow detected. IT off site

IT

7/30/24

8/14/24 O+M ANT

0747 ANT onsite. Cloudy and 72°F.

0810 Oxidizer screen shows normal shutdown in progress. DPE ~~pump~~ blower is off. Called John Strey and awaiting call back.

0908 Talked to John Stray. Performed following troubleshooting:

1) Tried reset + restart on HMI, failed
2) Removed top of valve on top of blower line, observed the ~~set point~~ valve position hovering around 45°. Tried manually setting valve to max on HMI and it read 60° at the valve (nominal). Manually set valve to 0.0% on HMI and it read 45° again, failed.
3) Removed HI wire (4280). Valve position did not change.
4) Adjusted min limit screw on valve in terminal block x1. First setting low, then increasing slightly. The valve read 30°. Tried reset and run and oxidizer reached 1400F and reads normal operation.

8/14/24 O+M ANT

0908 Also observed physical gas pressure meter on natural gas line ejected oil when depressing button to read gas pressure.
Called Grace Herrmann and informed her of above troubleshooting and gas pressure meter.

0917 Actuator valve steady at 45°.
Temp in oxidizer holding around 1427°F

0923 Ben McNeil on site. Temp @ oxidizer reached 1470°F then dropped. Rose to above 1490°F. Actuator seemed to move and temp dropped to below 1400F.

0944 Ben McNeil off site

1012 Calibrating PID Honeywell MiniRAE 3000
Zero: 0.0 ppm
Span: 99.8 ppm
Begin well data collection

1049 Valves to SVE closed in RW-3. Confirmed w/ Grace Herrmann. No reading.

1817 Site locked and secured. ANT off site

8/14/24

MDS 08/25/24

1130 MS on site with Clay Barnhill and J. Healy. Clear w/ H: 98°F

1230 Israel Torres on site
Site Intro / walkaround

1306 At site ~~MW-15~~ MS MW-15

1316 MW ~~-15~~ MS 14
DTW - 223.26
Deployed Hydrasleeve
2.9x12 750mL

1315 IT turned on pump 2. No water came out. Let sit for ~10 min no water. Clay will pull pump out to surface test.

1349 ~~MW-14~~ MS MW-15
DTW - 226.47
Deployed Hydrasleeve ~~+ Rep~~ MS
2.9x12 ~~750~~ mL

1400 MW-17
DTW: 332.87
Deployed Hydrasleeve & Replaced cord.
2.9x12 250mL

1430 BW-4: Tether binding
DTW: 322.73
Deployed Hydrasleeve
2.9x12 250mL

1433 BW-9
DTW: 331.98
~~Deployed Hydrasleeve~~, replaced MS weight
~~2.9x12 250mL~~ MS

1515 BW-10
DTW: ~~329.70~~
Take WL, Tether: 338.2

1530 Over to Compound to close/lock up gate

1540 BW-8
DTW: 330.9
Deployed Sleeve, Suction too great, valve closed to deploy
2.9x12, 250mL

~~1600~~ MS BW-7

1629 DTW: 331.39
Deploy Hydrasleeve
2.9x12, 250mL

1650 BW-5
DTW: 332.18
Deploy Hydrasleeve
2.9x12, 250mL

1708 BW-6
DTW — 333.23
no tether in well

1726 MW-13
SVE has been shut off.

MW-13 was not flowing upon arrival. We checked in with Grace and let her know the situation. VFD indicated error "Fault 4310". We reset the fault, pump runs at 40psi. When system gate valve was open, flow ran backwards. We will keep gate valve closed and sample port open to collect grab sample.

1755 MW-13 Collected Sample

1821 BW-7R
Concrete vault cracked and ~~chipping~~ MS chipping

1830 BW-7R, Collected Sample

1855 At Compound to unlock gates
MS

1900 MS & IT off s.t.

Mike Hoy

08/26/24 AA

0730 MS & IT onsite. CB & JH onsite. H: 97, Clear
0735 Compound to unlock gates and get Tedlar bags.
0743 at BW-8 For Vapor measurements
0807 Calibrated YSi - O_{gas} = 0.0ppm
Spangas = 100.3 ppm
PID - Honeywell mini rae lite
590-908578
0820 RW-2 for Vapor measurements
0840 Attempted to take PID for RW-2, returns maximum value for ppm (5000+). IT called Grace to explain situation.
0852 At compound to ~~test~~ sample PID Oxidizer Effluent
0858 Oxidizer Effluent Sample
0905 Combined Sample
0910 PID test on Combined >5000
0920 IT noticed igniter was detached
1003 Effluent water sample collected
1025 DTA Effluent (vapor) Collected
1040 FY Raw ~~Sams~~ (H_2O) Collected
1110 Checked sumpling and pumped/emptied. 0.5 gal from #1

MS 08/26

1220 Calibrate YSi
1233 At MW-12
Took Vapor measurements
1300 MW-12 Sample Collected
1303 MW-13 Took YSi measurements
1310 BW-7R Took YSi measurements
1322 At RW-4
Vapor measurements taken.
Pump off when we arrived.
IT Left to go check pump at compound. Reset. Pump still did not run.
No Sample Collected
1338 At MW-16
Took Vapor Measurements
Pump off when we arrived
IT left to check pump status at compound. When pump turned on, rubber coupler blew a leak. Pump runs but it turns off soon after
1353 At MW-14
1400 MW-14 Collected Sample
1420 MW-15
1425 MW-15 Sample Collected

08/26/24 MS

1444 At MW-17
1450 MW-17 Sample Collected
1518 ~~AM~~ MS At BW-4
1525 BW-4 Sample Collected
~~1600 At BW-9 MS~~
~~1610 BW-9 Sample Collected~~ MS
1616 At BW-1
Took Vapor Measurements
1641 At BW-8
Turned off valve to reduce suction
1650 BW-8 Sample Collected
1718 At BW-7
1720 BW-7 Sample Collected
1748 At BW-5
1755 BW-5 Sample Collected
1818 At All sups for Ice for Sample Cooler
1830 At Compound to drop off binder or notebook (Located in closest unit on gray table top just inside door), Scan Documents.
1900 MS Done for day, Offsite

mh typ

08/27/24 Former Y Station BC

12:15 BC onsite, Purpose: Assist Clay with Scrubbing and Cleaning of Wells (MW-11, ~~BW-7R~~, MW-12, MW-16 and MW-13) Clay and Joe are Currently Bailing MW-11.
13:40 SVE System and Well pumps Shut-Down.
Installed New Impellar shaft onto MW-11 Motor, Tested in Drum of water, it worked.
Installed pump Down well.
Set Transducer 2' Below pump intake
Pump intake = ~~345~~ 354.5' Bgs.
Pulled pump to BW-7R, Left Pump + wires in Vault overnight.
* Checked on MW-11, Still Not Pumping, Will Look at Further Tomorrow.
Placed Cones on Wells, MW-12 & MW-16.
19:15 BC + CB + Joe offsite, Locked & Secured site.

8/27/24

08/28/24 Former Y Station BC

7:04 BC + CB + Joe on-site, Purpose Jet/scrub then Bail BW-7R. Weather, 72°F Sunny.

7:10 Begin Getting set-up on BW-7R to Jet and Bail Well. Completed Jetting Well w/ 1 gallon of Chlorine. Begin Bailing Well, Water is Dark-Gray to Brown Turbid. ARV Connector Snapped off, Shoe Fell From Top of Casing onto it.

Reinstalled pump & piping into BW-7R, Tested Pump it worked. Fixed ARV entire Assembly, Small Drip From ARV white Pump is Running.

17:00 Begin Setting up @ MW-12. Pulled Pump @ MW-12. Poured ~1/2 gallon Chlorine Down Well. Placed Wires back in Vault. Locked and Secured

18:44 Site. BC + CB + Joe offsite.

BC
8/28/24

08/29/24 Former Y Station BC

6:57 BC + CB on-site. Purpose Jet and Scrub then Bail MW-12. Weather. 73°F Overcast.

7:06 Begin setting up @ MW-12. Jetted well, then bailed ~40 gallons, Brown to Light Brown, Lots of silt.

Tested Pump in Drum, worked Good. Reinstalled Pump Down the well, Tested pump and it worked Good, No Leaks on fittings.

12:48 Set-up @ MW-11 to Pull pump. Clay and Joe will Pull out Pump. BC begin Gauging Static Water Levels.

15:34 Completed Gauging site Wells.

15:37 Started Pumping Wells. Tried to start SVE System, Reoccuring Alarm "Gas Modulating Valve not closed." Completely Shut-Down Power to System, Checked Ignitor, Still Alarm Shuts Down System. (will Troubleshoot Tomorrow) Found 1 Leaking section on MW-11, Replaced Installed Down Well. Pump + Piping Now 1' Taller, Need to shorten Piping to attatch to Pitless Adaptor.

18:24 BC + Joe + CB offsite.

08/30/24 Former Y Station BC

7:02 BC + CB + Joe on-site. Purpose: Work on MW-11, after Replacing 3 sticks of Pipe, the Pump is Resting on the Ground w/ 6 inches above the slip-Joint. Need to shorten by ~2.5'. Weather, Sprinkling Rain, 66°F.

9:00 Cut 3' off of one Broken Section of pipe, Installed onto Piping in MW-11. Started pump, Runs Great.

9:24 started-up Oxidizer, adJusted min. Screw 2 Turns Counterclockwise, System Running. AdJusted Gas Valve Manually From 70 to 60.

Clay + Joe Pulling MW-16, to Jet, Bail and Reinstall Pump. + add Chlorine.

* Sampled 5 Vials (8260B+504.1) From RW-3, Sample time 10:19.

13:06 Collected FY COMB Inf. Air Sample. BC offsite, All Samples on Ice. Clay + Joe to Continue working on MW-16.

BC
8/30/24

09/12/24 Former Y Station BC

7:06 BC onsite, Purpose: O&M. Weather, 64°F Sunny.

7:10 Begin Filling out Labels and preparing to Collect Samples.

7:14 Begin Sampling Water Treatment.

8:50 Begin Performing System O&M @ Manifold.

12:36 Completed O&M Wellhead Measurements, Locked and Secured site, All Samples on Ice. BC offsite.

BC
9/12/24

09/25/2024 Former Y station

12:41 Bc onsite, Purpose: O&M and Collect Wellhead Measurements. Weather, 77°F Sunny.

12:46 Begin Calibrating PID SN: Zero Cal (Fresh Air) = 592-926669 100 ppm Isobutylene =

Begin Collecting Wellhead Measurements.

Ø

09/25/2024 Former Y Station Bc

12:41 Bc onsite, Purpose: O&M, Collect Wellhead Measurements. Weather, 77°F, Sunny.

12:46 Begin Calibrating PID SN: 592-926669 Zero Cal (Fresh Air) = 0.0 ppm 100 ppm Isobutylene = 100.1 ppm

12:50 Begin Collecting Wellhead Measurements.

* MW-12 Vault, Currently Flooded, about 2/3 of Vault. Leaking From ARV. Flow Meter Intermittently Stopped and Reverse Flowing. Called J. Ravecci, Confirmed pump is on. Closed Faucet Valve and Turned off Pump. Cleaned ARV. Opened Faucet Valve, Turned on Pump. No Leaks, Flow Meter Spinning Correctly. Pumped out Water in Vault.

* SVE Line 2+3 Both are closed. MW-13 VFD Shows well Pumping @ 30.2 Hz

- Cut all weeds & Grass inside Compound. Repaired Grease gun and Greased all grease points on SVE Blower and Motor.

~~18:32~~ Completed Wellhead Measurements + O&M

19:03 For the day. Locked & Secured site, Bc offsite.

Bc 9/25/24

09/26/24 Former Y Station BC

7:22 BC onsite, Purpose: Continue Collecting Wellhead Measurements and System O&M.
Weather: 62°F, Sunny

7:31 Begin Calibrating PID SN: 592-926669
Zero Cal. (Fresh Air) = 0.0ppm
100 ppm Isobutylene = 100.0ppm

7:36 Begin Collecting Wellhead Measurements.

X MW-12 Vault Flooded to the Top. Pumped out water, Turned off pump and closed Gate Valve. Collected Air + Water Samples @ System.

* No Flow @ RW-3, opened Faucet Tap, No Flow.

12:06 Completed O&M and Wellhead Measurements, All Samples on Ice, BC offsite. Locked & Secured site.

BC
9/26/24.

10/7/24 Former Y Station RV

1245 on-site,
1300 start O&M readings
1445 stopped GW measurements to start water samples.
1645 off-site to purchase cooler for samples.
1705 on-site. Start packing sample cooler with Ice.
1745 off-site.

Note: Start having issues with vacuum box. Will try to use vacuum box tomorrow. Having issue pulling vacuum.

10/8/24 Former Y Station RV

0700 - on-site
- Grabbed water / Vapor samples
- Worked on vacuum box issue. Was able to get it to work.
1025 - off-site Fed Ex
1058 - on-site.
- Complete O&M.
1145 - off-site, compound is locked and secured.

Appendix D

Laboratory Reports

DBS&A
a Geo-Logic Company

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 7/30/2024 4:55:30 PM

JOB DESCRIPTION

Former Y Station

JOB NUMBER

885-8028-1

Eurofins Albuquerque

Job Notes

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

Authorization



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Authorized for release by
Cheyenne Cason, Project Manager
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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: 885-8028-1 Eurofins Albuquerque

Job Narrative
885-8028-1

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 7/15/2024 1:12 PM. 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 -0.2°C.

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

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

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

Diesel Range Organics
Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-8753 and analytical batch 885-8775 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA
Method 8011: The following sample was diluted due to the abundance of target analytes: FY Raw (885-8028-3)

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

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

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

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 885-8028-1

Client Sample ID: FY OX Eff
Date Collected: 07/12/24 12:15
Date Received: 07/15/24 13:12
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-8028-1
Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	21		5.0		ug/L			07/19/24 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 412*		*07/19/24 16:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.5		0.10		ug/L			07/19/24 16:39	1
Ethylbenzene	0.12		0.10		ug/L			07/19/24 16:39	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			07/19/24 16:39	1
Toluene	1.7		0.10		ug/L			07/19/24 16:39	1
Xylenes, Total	0.39		0.20		ug/L			07/19/24 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*07/19/24 16:39*	*1*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 885-8028-1

Client Sample ID: FY COMB Inf
Date Collected: 07/12/24 12:23
Date Received: 07/15/24 13:12
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-8028-2
Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	7200		250		ug/L			07/19/24 17:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*15 - 412*		*07/19/24 17:03*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	65		5.0		ug/L			07/19/24 17:03	50
Ethylbenzene	22		5.0		ug/L			07/19/24 17:03	50
Methyl-tert-butyl Ether (MTBE)	ND		13		ug/L			07/19/24 17:03	50
Toluene	250		5.0		ug/L			07/19/24 17:03	50
Xylenes, Total	110		10		ug/L			07/19/24 17:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*07/19/24 17:03*	*50*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 885-8028-1

Client Sample ID: FY Raw
Date Collected: 07/12/24 08:48
Date Received: 07/15/24 13:12

Lab Sample ID: 885-8028-3
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			07/24/24 20:41	5
1,1,1-Trichloroethane	ND		5.0		ug/L			07/24/24 20:41	5
1,1,2,2-Tetrachloroethane	ND		10		ug/L			07/24/24 20:41	5
1,1,2-Trichloroethane	ND		5.0		ug/L			07/24/24 20:41	5
1,1-Dichloroethane	ND		5.0		ug/L			07/24/24 20:41	5
1,1-Dichloroethene	ND		5.0		ug/L			07/24/24 20:41	5
1,1-Dichloropropene	ND		5.0		ug/L			07/24/24 20:41	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			07/24/24 20:41	5
1,2,3-Trichloropropane	ND		10		ug/L			07/24/24 20:41	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			07/24/24 20:41	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			07/24/24 20:41	5
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			07/24/24 20:41	5
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			07/24/24 20:41	5
1,2-Dichlorobenzene	ND		5.0		ug/L			07/24/24 20:41	5
1,2-Dichloroethane (EDC)	**45**		5.0		ug/L			07/24/24 20:41	5
1,2-Dichloropropane	ND		5.0		ug/L			07/24/24 20:41	5
1,3,5-Trimethylbenzene	**8.7**		5.0		ug/L			07/24/24 20:41	5
1,3-Dichlorobenzene	ND		5.0		ug/L			07/24/24 20:41	5
1,3-Dichloropropane	ND		5.0		ug/L			07/24/24 20:41	5
1,4-Dichlorobenzene	ND		5.0		ug/L			07/24/24 20:41	5
1-Methylnaphthalene	ND		20		ug/L			07/24/24 20:41	5
2,2-Dichloropropane	ND		10		ug/L			07/24/24 20:41	5
2-Butanone	ND		50		ug/L			07/24/24 20:41	5
2-Chlorotoluene	ND		5.0		ug/L			07/24/24 20:41	5
2-Hexanone	ND		50		ug/L			07/24/24 20:41	5
2-Methylnaphthalene	ND		20		ug/L			07/24/24 20:41	5
4-Chlorotoluene	ND		5.0		ug/L			07/24/24 20:41	5
4-Isopropyltoluene	ND		5.0		ug/L			07/24/24 20:41	5
4-Methyl-2-pentanone	ND		50		ug/L			07/24/24 20:41	5
Acetone	ND		50		ug/L			07/24/24 20:41	5
Benzene	**160**		5.0		ug/L			07/24/24 20:41	5
Bromobenzene	ND		5.0		ug/L			07/24/24 20:41	5
Bromodichloromethane	ND		5.0		ug/L			07/24/24 20:41	5
Dibromochloromethane	ND		5.0		ug/L			07/24/24 20:41	5
Bromoform	ND		5.0		ug/L			07/24/24 20:41	5
Bromomethane	ND		15		ug/L			07/24/24 20:41	5
Carbon disulfide	ND		50		ug/L			07/24/24 20:41	5
Carbon tetrachloride	ND		5.0		ug/L			07/24/24 20:41	5
Chlorobenzene	ND		5.0		ug/L			07/24/24 20:41	5
Chloroethane	ND		10		ug/L			07/24/24 20:41	5
Chloroform	ND		5.0		ug/L			07/24/24 20:41	5
Chloromethane	ND		15		ug/L			07/24/24 20:41	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			07/24/24 20:41	5
cis-1,3-Dichloropropene	ND		5.0		ug/L			07/24/24 20:41	5
Dibromomethane	ND		5.0		ug/L			07/24/24 20:41	5
Dichlorodifluoromethane	ND		5.0		ug/L			07/24/24 20:41	5
Ethylbenzene	ND		5.0		ug/L			07/24/24 20:41	5
Hexachlorobutadiene	ND		5.0		ug/L			07/24/24 20:41	5
Isopropylbenzene	ND		5.0		ug/L			07/24/24 20:41	5

Client Sample ID: FY Raw **Lab Sample ID: 885-8028-3**
Date Collected: 07/12/24 08:48 **Matrix: Water**
Date Received: 07/15/24 13:12

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			07/24/24 20:41	5
Methylene Chloride	ND		15		ug/L			07/24/24 20:41	5
n-Butylbenzene	ND		15		ug/L			07/24/24 20:41	5
N-Propylbenzene	ND		5.0		ug/L			07/24/24 20:41	5
Naphthalene	ND		10		ug/L			07/24/24 20:41	5
sec-Butylbenzene	ND		5.0		ug/L			07/24/24 20:41	5
Styrene	ND		5.0		ug/L			07/24/24 20:41	5
tert-Butylbenzene	ND		5.0		ug/L			07/24/24 20:41	5
Tetrachloroethene (PCE)	ND		5.0		ug/L			07/24/24 20:41	5
Toluene	**130**		5.0		ug/L			07/24/24 20:41	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			07/24/24 20:41	5
trans-1,3-Dichloropropene	ND		5.0		ug/L			07/24/24 20:41	5
Trichloroethene (TCE)	ND		5.0		ug/L			07/24/24 20:41	5
Trichlorofluoromethane	ND		5.0		ug/L			07/24/24 20:41	5
Vinyl chloride	ND		5.0		ug/L			07/24/24 20:41	5
Xylenes, Total	**120**		7.5		ug/L			07/24/24 20:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*07/24/24 20:41*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/24/24 20:41*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/24/24 20:41*	*5*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/24/24 20:41*	*5*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**1.2**		0.050		mg/L			07/17/24 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*15 - 270*		*07/17/24 01:45*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**2.8**	**D**	0.19		ug/L		07/18/24 07:10	07/19/24 08:11	20

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		07/19/24 09:04	07/19/24 10:57	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		07/19/24 09:04	07/19/24 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*148*		*46 - 159*	*07/19/24 09:04*	*07/19/24 10:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67**		10		mg/L			07/16/24 12:16	20
Sulfate	**46**		0.50		mg/L			07/16/24 11:39	1
Nitrate Nitrite as N	**1.9**		1.0		mg/L			07/16/24 17:00	5

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**490**		100		mg/L			07/17/24 09:01	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 885-8028-1

Client Sample ID: FY Treated Eff
Date Collected: 07/12/24 08:32
Date Received: 07/15/24 13:12

Lab Sample ID: 885-8028-4
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/24/24 21:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/24/24 21:05	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/24/24 21:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/24/24 21:05	1
1,1-Dichloroethane	ND		1.0		ug/L			07/24/24 21:05	1
1,1-Dichloroethene	ND		1.0		ug/L			07/24/24 21:05	1
1,1-Dichloropropene	ND		1.0		ug/L			07/24/24 21:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/24/24 21:05	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/24/24 21:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/24/24 21:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/24/24 21:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/24/24 21:05	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/24/24 21:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/24/24 21:05	1
1,2-Dichloroethane (EDC)	**1.1**		1.0		ug/L			07/24/24 21:05	1
1,2-Dichloropropane	ND		1.0		ug/L			07/24/24 21:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/24/24 21:05	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/24/24 21:05	1
1,3-Dichloropropane	ND		1.0		ug/L			07/24/24 21:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/24/24 21:05	1
1-Methylnaphthalene	ND		4.0		ug/L			07/24/24 21:05	1
2,2-Dichloropropane	ND		2.0		ug/L			07/24/24 21:05	1
2-Butanone	ND		10		ug/L			07/24/24 21:05	1
2-Chlorotoluene	ND		1.0		ug/L			07/24/24 21:05	1
2-Hexanone	ND		10		ug/L			07/24/24 21:05	1
2-Methylnaphthalene	ND		4.0		ug/L			07/24/24 21:05	1
4-Chlorotoluene	ND		1.0		ug/L			07/24/24 21:05	1
4-Isopropyltoluene	ND		1.0		ug/L			07/24/24 21:05	1
4-Methyl-2-pentanone	ND		10		ug/L			07/24/24 21:05	1
Acetone	ND		10		ug/L			07/24/24 21:05	1
Benzene	ND		1.0		ug/L			07/24/24 21:05	1
Bromobenzene	ND		1.0		ug/L			07/24/24 21:05	1
Bromodichloromethane	ND		1.0		ug/L			07/24/24 21:05	1
Dibromochloromethane	ND		1.0		ug/L			07/24/24 21:05	1
Bromoform	ND		1.0		ug/L			07/24/24 21:05	1
Bromomethane	ND		3.0		ug/L			07/24/24 21:05	1
Carbon disulfide	ND		10		ug/L			07/24/24 21:05	1
Carbon tetrachloride	ND		1.0		ug/L			07/24/24 21:05	1
Chlorobenzene	ND		1.0		ug/L			07/24/24 21:05	1
Chloroethane	ND		2.0		ug/L			07/24/24 21:05	1
Chloroform	ND		1.0		ug/L			07/24/24 21:05	1
Chloromethane	ND		3.0		ug/L			07/24/24 21:05	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/24/24 21:05	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/24/24 21:05	1
Dibromomethane	ND		1.0		ug/L			07/24/24 21:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/24/24 21:05	1
Ethylbenzene	ND		1.0		ug/L			07/24/24 21:05	1
Hexachlorobutadiene	ND		1.0		ug/L			07/24/24 21:05	1
Isopropylbenzene	ND		1.0		ug/L			07/24/24 21:05	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 885-8028-1

Client Sample ID: FY Treated Eff

Date Collected: 07/12/24 08:32
Date Received: 07/15/24 13:12

Lab Sample ID: 885-8028-4

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/24/24 21:05	1
Methylene Chloride	ND		3.0		ug/L			07/24/24 21:05	1
n-Butylbenzene	ND		3.0		ug/L			07/24/24 21:05	1
N-Propylbenzene	ND		1.0		ug/L			07/24/24 21:05	1
Naphthalene	ND		2.0		ug/L			07/24/24 21:05	1
sec-Butylbenzene	ND		1.0		ug/L			07/24/24 21:05	1
Styrene	ND		1.0		ug/L			07/24/24 21:05	1
tert-Butylbenzene	ND		1.0		ug/L			07/24/24 21:05	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/24/24 21:05	1
Toluene	ND		1.0		ug/L			07/24/24 21:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/24/24 21:05	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/24/24 21:05	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/24/24 21:05	1
Trichlorofluoromethane	ND		1.0		ug/L			07/24/24 21:05	1
Vinyl chloride	ND		1.0		ug/L			07/24/24 21:05	1
Xylenes, Total	ND		1.5		ug/L			07/24/24 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/24/24 21:05*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/24/24 21:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/24/24 21:05*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/24/24 21:05*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L			07/17/24 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*15 - 270*		*07/17/24 02:06*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.087**		0.0094		ug/L		07/18/24 07:10	07/18/24 13:49	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		07/19/24 09:04	07/19/24 11:10	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		07/19/24 09:04	07/19/24 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*120*		*46 - 159*	*07/19/24 09:04*	*07/19/24 11:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77**		10		mg/L			07/16/24 13:05	20
Sulfate	**45**		10		mg/L			07/16/24 13:05	20
Nitrate Nitrite as N	**1.3**		1.0		mg/L			07/16/24 17:12	5

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**470**		100		mg/L			07/17/24 09:01	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-8028-1
Project/Site: Former Y Station

Client Sample ID: Trip Blank
Lab Sample ID: 885-8028-5
Date Collected: 07/12/24 00:00
Matrix: Water
Date Received: 07/15/24 13:12

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/24/24 21:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/24/24 21:30	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/24/24 21:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/24/24 21:30	1
1,1-Dichloroethane	ND		1.0		ug/L			07/24/24 21:30	1
1,1-Dichloroethene	ND		1.0		ug/L			07/24/24 21:30	1
1,1-Dichloropropene	ND		1.0		ug/L			07/24/24 21:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/24/24 21:30	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/24/24 21:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/24/24 21:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/24/24 21:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/24/24 21:30	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/24/24 21:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/24/24 21:30	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/24/24 21:30	1
1,2-Dichloropropane	ND		1.0		ug/L			07/24/24 21:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/24/24 21:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/24/24 21:30	1
1,3-Dichloropropane	ND		1.0		ug/L			07/24/24 21:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/24/24 21:30	1
1-Methylnaphthalene	ND		4.0		ug/L			07/24/24 21:30	1
2,2-Dichloropropane	ND		2.0		ug/L			07/24/24 21:30	1
2-Butanone	ND		10		ug/L			07/24/24 21:30	1
2-Chlorotoluene	ND		1.0		ug/L			07/24/24 21:30	1
2-Hexanone	ND		10		ug/L			07/24/24 21:30	1
2-Methylnaphthalene	ND		4.0		ug/L			07/24/24 21:30	1
4-Chlorotoluene	ND		1.0		ug/L			07/24/24 21:30	1
4-Isopropyltoluene	ND		1.0		ug/L			07/24/24 21:30	1
4-Methyl-2-pentanone	ND		10		ug/L			07/24/24 21:30	1
Acetone	ND		10		ug/L			07/24/24 21:30	1
Benzene	ND		1.0		ug/L			07/24/24 21:30	1
Bromobenzene	ND		1.0		ug/L			07/24/24 21:30	1
Bromodichloromethane	ND		1.0		ug/L			07/24/24 21:30	1
Dibromochloromethane	ND		1.0		ug/L			07/24/24 21:30	1
Bromoform	ND		1.0		ug/L			07/24/24 21:30	1
Bromomethane	ND		3.0		ug/L			07/24/24 21:30	1
Carbon disulfide	ND		10		ug/L			07/24/24 21:30	1
Carbon tetrachloride	ND		1.0		ug/L			07/24/24 21:30	1
Chlorobenzene	ND		1.0		ug/L			07/24/24 21:30	1
Chloroethane	ND		2.0		ug/L			07/24/24 21:30	1
Chloroform	ND		1.0		ug/L			07/24/24 21:30	1
Chloromethane	ND		3.0		ug/L			07/24/24 21:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/24/24 21:30	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/24/24 21:30	1
Dibromomethane	ND		1.0		ug/L			07/24/24 21:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/24/24 21:30	1
Ethylbenzene	ND		1.0		ug/L			07/24/24 21:30	1
Hexachlorobutadiene	ND		1.0		ug/L			07/24/24 21:30	1
Isopropylbenzene	ND		1.0		ug/L			07/24/24 21:30	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-8028-1
Project/Site: Former Y Station

Client Sample ID: Trip Blank **Lab Sample ID: 885-8028-5**
Date Collected: 07/12/24 00:00 **Matrix: Water**
Date Received: 07/15/24 13:12

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/24/24 21:30	1
Methylene Chloride	ND		3.0		ug/L			07/24/24 21:30	1
n-Butylbenzene	ND		3.0		ug/L			07/24/24 21:30	1
N-Propylbenzene	ND		1.0		ug/L			07/24/24 21:30	1
Naphthalene	ND		2.0		ug/L			07/24/24 21:30	1
sec-Butylbenzene	ND		1.0		ug/L			07/24/24 21:30	1
Styrene	ND		1.0		ug/L			07/24/24 21:30	1
tert-Butylbenzene	ND		1.0		ug/L			07/24/24 21:30	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/24/24 21:30	1
Toluene	ND		1.0		ug/L			07/24/24 21:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/24/24 21:30	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/24/24 21:30	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/24/24 21:30	1
Trichlorofluoromethane	ND		1.0		ug/L			07/24/24 21:30	1
Vinyl chloride	ND		1.0		ug/L			07/24/24 21:30	1
Xylenes, Total	ND		1.5		ug/L			07/24/24 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*07/24/24 21:30*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/24/24 21:30*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/24/24 21:30*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*07/24/24 21:30*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0094		ug/L		07/18/24 07:10	07/18/24 14:06	1

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

Lab Sample ID: MB 885-9038/5
Matrix: Water
Analysis Batch: 9038

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/24/24 12:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/24/24 12:09	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/24/24 12:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/24/24 12:09	1
1,1-Dichloroethane	ND		1.0		ug/L			07/24/24 12:09	1
1,1-Dichloroethene	ND		1.0		ug/L			07/24/24 12:09	1
1,1-Dichloropropene	ND		1.0		ug/L			07/24/24 12:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/24/24 12:09	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/24/24 12:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/24/24 12:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/24/24 12:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/24/24 12:09	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/24/24 12:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/24/24 12:09	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/24/24 12:09	1
1,2-Dichloropropane	ND		1.0		ug/L			07/24/24 12:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/24/24 12:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/24/24 12:09	1
1,3-Dichloropropane	ND		1.0		ug/L			07/24/24 12:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/24/24 12:09	1
1-Methylnaphthalene	ND		4.0		ug/L			07/24/24 12:09	1
2,2-Dichloropropane	ND		2.0		ug/L			07/24/24 12:09	1
2-Butanone	ND		10		ug/L			07/24/24 12:09	1
2-Chlorotoluene	ND		1.0		ug/L			07/24/24 12:09	1
2-Hexanone	ND		10		ug/L			07/24/24 12:09	1
2-Methylnaphthalene	ND		4.0		ug/L			07/24/24 12:09	1
4-Chlorotoluene	ND		1.0		ug/L			07/24/24 12:09	1
4-Isopropyltoluene	ND		1.0		ug/L			07/24/24 12:09	1
4-Methyl-2-pentanone	ND		10		ug/L			07/24/24 12:09	1
Acetone	ND		10		ug/L			07/24/24 12:09	1
Benzene	ND		1.0		ug/L			07/24/24 12:09	1
Bromobenzene	ND		1.0		ug/L			07/24/24 12:09	1
Bromodichloromethane	ND		1.0		ug/L			07/24/24 12:09	1
Dibromochloromethane	ND		1.0		ug/L			07/24/24 12:09	1
Bromoform	ND		1.0		ug/L			07/24/24 12:09	1
Bromomethane	ND		3.0		ug/L			07/24/24 12:09	1
Carbon disulfide	ND		10		ug/L			07/24/24 12:09	1
Carbon tetrachloride	ND		1.0		ug/L			07/24/24 12:09	1
Chlorobenzene	ND		1.0		ug/L			07/24/24 12:09	1
Chloroethane	ND		2.0		ug/L			07/24/24 12:09	1
Chloroform	ND		1.0		ug/L			07/24/24 12:09	1
Chloromethane	ND		3.0		ug/L			07/24/24 12:09	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/24/24 12:09	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/24/24 12:09	1
Dibromomethane	ND		1.0		ug/L			07/24/24 12:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/24/24 12:09	1
Ethylbenzene	ND		1.0		ug/L			07/24/24 12:09	1
Hexachlorobutadiene	ND		1.0		ug/L			07/24/24 12:09	1

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

Lab Sample ID: MB 885-9038/5
Matrix: Water
Analysis Batch: 9038

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			07/24/24 12:09	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/24/24 12:09	1
Methylene Chloride	ND		3.0		ug/L			07/24/24 12:09	1
n-Butylbenzene	ND		3.0		ug/L			07/24/24 12:09	1
N-Propylbenzene	ND		1.0		ug/L			07/24/24 12:09	1
Naphthalene	ND		2.0		ug/L			07/24/24 12:09	1
sec-Butylbenzene	ND		1.0		ug/L			07/24/24 12:09	1
Styrene	ND		1.0		ug/L			07/24/24 12:09	1
tert-Butylbenzene	ND		1.0		ug/L			07/24/24 12:09	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/24/24 12:09	1
Toluene	ND		1.0		ug/L			07/24/24 12:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/24/24 12:09	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/24/24 12:09	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/24/24 12:09	1
Trichlorofluoromethane	ND		1.0		ug/L			07/24/24 12:09	1
Vinyl chloride	ND		1.0		ug/L			07/24/24 12:09	1
Xylenes, Total	ND		1.5		ug/L			07/24/24 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*07/24/24 12:09*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/24/24 12:09*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/24/24 12:09*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/24/24 12:09*	*1*

Lab Sample ID: STOBLK 885-9038/53
Matrix: Water
Analysis Batch: 9038

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/25/24 06:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/25/24 06:23	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/25/24 06:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/25/24 06:23	1
1,1-Dichloroethane	ND		1.0		ug/L			07/25/24 06:23	1
1,1-Dichloroethene	ND		1.0		ug/L			07/25/24 06:23	1
1,1-Dichloropropene	ND		1.0		ug/L			07/25/24 06:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/25/24 06:23	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/25/24 06:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/25/24 06:23	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/25/24 06:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/25/24 06:23	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/25/24 06:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/25/24 06:23	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/25/24 06:23	1
1,2-Dichloropropane	ND		1.0		ug/L			07/25/24 06:23	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/25/24 06:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/25/24 06:23	1
1,3-Dichloropropane	ND		1.0		ug/L			07/25/24 06:23	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 885-8028-1

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

Lab Sample ID: STOBLK 885-9038/53
Matrix: Water
Analysis Batch: 9038

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			07/25/24 06:23	1
1-Methylnaphthalene	ND		4.0		ug/L			07/25/24 06:23	1
2,2-Dichloropropane	ND		2.0		ug/L			07/25/24 06:23	1
2-Butanone	ND		10		ug/L			07/25/24 06:23	1
2-Chlorotoluene	ND		1.0		ug/L			07/25/24 06:23	1
2-Hexanone	ND		10		ug/L			07/25/24 06:23	1
2-Methylnaphthalene	ND		4.0		ug/L			07/25/24 06:23	1
4-Chlorotoluene	ND		1.0		ug/L			07/25/24 06:23	1
4-Isopropyltoluene	ND		1.0		ug/L			07/25/24 06:23	1
4-Methyl-2-pentanone	ND		10		ug/L			07/25/24 06:23	1
Acetone	ND		10		ug/L			07/25/24 06:23	1
Benzene	ND		1.0		ug/L			07/25/24 06:23	1
Bromobenzene	ND		1.0		ug/L			07/25/24 06:23	1
Bromodichloromethane	ND		1.0		ug/L			07/25/24 06:23	1
Dibromochloromethane	ND		1.0		ug/L			07/25/24 06:23	1
Bromoform	ND		1.0		ug/L			07/25/24 06:23	1
Bromomethane	ND		3.0		ug/L			07/25/24 06:23	1
Carbon disulfide	ND		10		ug/L			07/25/24 06:23	1
Carbon tetrachloride	ND		1.0		ug/L			07/25/24 06:23	1
Chlorobenzene	ND		1.0		ug/L			07/25/24 06:23	1
Chloroethane	ND		2.0		ug/L			07/25/24 06:23	1
Chloroform	ND		1.0		ug/L			07/25/24 06:23	1
Chloromethane	ND		3.0		ug/L			07/25/24 06:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/25/24 06:23	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/25/24 06:23	1
Dibromomethane	ND		1.0		ug/L			07/25/24 06:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/25/24 06:23	1
Ethylbenzene	ND		1.0		ug/L			07/25/24 06:23	1
Hexachlorobutadiene	ND		1.0		ug/L			07/25/24 06:23	1
Isopropylbenzene	ND		1.0		ug/L			07/25/24 06:23	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/25/24 06:23	1
Methylene Chloride	ND		3.0		ug/L			07/25/24 06:23	1
n-Butylbenzene	ND		3.0		ug/L			07/25/24 06:23	1
N-Propylbenzene	ND		1.0		ug/L			07/25/24 06:23	1
Naphthalene	ND		2.0		ug/L			07/25/24 06:23	1
sec-Butylbenzene	ND		1.0		ug/L			07/25/24 06:23	1
Styrene	ND		1.0		ug/L			07/25/24 06:23	1
tert-Butylbenzene	ND		1.0		ug/L			07/25/24 06:23	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/25/24 06:23	1
Toluene	ND		1.0		ug/L			07/25/24 06:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/25/24 06:23	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/25/24 06:23	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/25/24 06:23	1
Trichlorofluoromethane	ND		1.0		ug/L			07/25/24 06:23	1
Vinyl chloride	ND		1.0		ug/L			07/25/24 06:23	1
Xylenes, Total	ND		1.5		ug/L			07/25/24 06:23	1

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

Lab Sample ID: STOBLK 885-9038/53
Matrix: Water
Analysis Batch: 9038

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

Surrogate	STOBLK %Recovery	STOBLK Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/25/24 06:23*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/25/24 06:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/25/24 06:23*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*07/25/24 06:23*	*1*

Lab Sample ID: LCS 885-9038/4
Matrix: Water
Analysis Batch: 9038

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.1	17.9		ug/L		89	70 - 130
Benzene	20.1	19.6		ug/L		97	70 - 130
Chlorobenzene	20.1	20.9		ug/L		104	70 - 130
Toluene	20.2	20.4		ug/L		101	70 - 130
Trichloroethene (TCE)	20.2	19.3		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-8545/3
Matrix: Water
Analysis Batch: 8545

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050	mg/L			07/16/24 23:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*98*		*15 - 270*		*07/16/24 23:34*	*1*

Lab Sample ID: LCS 885-8545/2
Matrix: Water
Analysis Batch: 8545

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	0.500	0.428		mg/L		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*203*		*15 - 270*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-8899/7
Matrix: Air
Analysis Batch: 8899

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L			07/19/24 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 412*		*07/19/24 11:08*	*1*

Lab Sample ID: LCS 885-8899/6
Matrix: Air
Analysis Batch: 8899

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			50.0	46.6		ug/L		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*195*		*15 - 412*

Lab Sample ID: 885-8028-1 DU
Matrix: Air
Analysis Batch: 8899

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	21			20.2		ug/L				4	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*15 - 412*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-8902/7
Matrix: Air
Analysis Batch: 8902

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10		ug/L			07/19/24 11:08	1
Ethylbenzene	ND		0.10		ug/L			07/19/24 11:08	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			07/19/24 11:08	1
Toluene	ND		0.10		ug/L			07/19/24 11:08	1
Xylenes, Total	ND		0.20		ug/L			07/19/24 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*07/19/24 11:08*	*1*

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-8902/6
Matrix: Air
Analysis Batch: 8902

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.00	1.75		ug/L		88	70 - 130		
Ethylbenzene			2.00	1.67		ug/L		83	70 - 130		
m&p-Xylene			4.00	3.39		ug/L		85	70 - 130		
Methyl-tert-butyl Ether (MTBE)			2.00	1.61		ug/L		80	70 - 130		
o-Xylene			2.00	1.64		ug/L		82	70 - 130		
Toluene			2.00	1.67		ug/L		83	70 - 130		
Xylenes, Total			6.00	5.03		ug/L		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 885-8028-1 DU
Matrix: Air
Analysis Batch: 8902

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	3.5			3.32		ug/L				5	20
Ethylbenzene	0.12			0.118		ug/L				2	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Toluene	1.7			1.64		ug/L				4	20
Xylenes, Total	0.39			0.387		ug/L				0	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-8615/3-A
Matrix: Water
Analysis Batch: 8616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8615

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010		ug/L		07/18/24 07:10	07/18/24 12:41	1

Lab Sample ID: LCS 885-8615/4-A
Matrix: Water
Analysis Batch: 8616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8615

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.100	0.0874		ug/L		87	70 - 130		

Lab Sample ID: LCSD 885-8615/5-A
Matrix: Water
Analysis Batch: 8616

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8615

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			0.100	0.0960		ug/L		96	70 - 130	9	20

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MRL 885-8615/1-A
Matrix: Water
Analysis Batch: 8616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8615

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.0100	ND		ug/L		75	60 - 140		

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-8753/1-A
Matrix: Water
Analysis Batch: 8775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8753

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		07/19/24 09:04	07/19/24 10:18	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		07/19/24 09:04	07/19/24 10:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*46 - 159*	*07/19/24 09:04*	*07/19/24 10:18*	*1*

Lab Sample ID: LCS 885-8753/2-A
Matrix: Water
Analysis Batch: 8775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8753

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			2.50	3.00		mg/L		120	57 - 147		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*129*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-8552/4
Matrix: Water
Analysis Batch: 8552

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20		mg/L			07/16/24 08:56	1

Lab Sample ID: LCS 885-8552/5
Matrix: Water
Analysis Batch: 8552

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N			3.50	3.41		mg/L		97	90 - 110		

Lab Sample ID: MRL 885-8552/3
Matrix: Water
Analysis Batch: 8552

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N			0.200	0.198	J	mg/L		99	50 - 150		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-8028-3 MS
Matrix: Water
Analysis Batch: 8552

Client Sample ID: FY Raw
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.4		3.50	5.70		mg/L		94	80 - 120

Lab Sample ID: 885-8028-3 MSD
Matrix: Water
Analysis Batch: 8552

Client Sample ID: FY Raw
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	2.4		3.50	5.67		mg/L		94	80 - 120	0	20

Lab Sample ID: 885-8028-4 MS
Matrix: Water
Analysis Batch: 8552

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.0		3.50	5.22		mg/L		92	80 - 120

Lab Sample ID: 885-8028-4 MSD
Matrix: Water
Analysis Batch: 8552

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	2.0		3.50	5.25		mg/L		93	80 - 120	0	20

Lab Sample ID: MB 885-8553/4
Matrix: Water
Analysis Batch: 8553

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			07/16/24 08:56	1
Sulfate	ND		0.50		mg/L			07/16/24 08:56	1

Lab Sample ID: LCS 885-8553/5
Matrix: Water
Analysis Batch: 8553

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.76		mg/L		95	90 - 110
Sulfate	10.0	9.50		mg/L		95	90 - 110

Lab Sample ID: MRL 885-8553/3
Matrix: Water
Analysis Batch: 8553

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.522		mg/L		104	50 - 150
Sulfate	0.500	0.517		mg/L		103	50 - 150

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 885-8028-1

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-8547/1
Matrix: Water
Analysis Batch: 8547

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50		mg/L			07/17/24 09:01	1

Lab Sample ID: LCS 885-8547/2
Matrix: Water
Analysis Batch: 8547

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1020		mg/L		102	80 - 120		

Lab Sample ID: 885-8028-4 DU
Matrix: Water
Analysis Batch: 8547

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	470			500		mg/L				6	10

GC/MS VOA

Analysis Batch: 9038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-3	FY Raw	Total/NA	Water	8260B	
885-8028-4	FY Treated Eff	Total/NA	Water	8260B	
885-8028-5	Trip Blank	Total/NA	Water	8260B	
MB 885-9038/5	Method Blank	Total/NA	Water	8260B	
STOBLK 885-9038/53	Method Blank	Total/NA	Water	8260B	
LCS 885-9038/4	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 8545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-3	FY Raw	Total/NA	Water	8015M/D	
885-8028-4	FY Treated Eff	Total/NA	Water	8015M/D	
MB 885-8545/3	Method Blank	Total/NA	Water	8015M/D	
LCS 885-8545/2	Lab Control Sample	Total/NA	Water	8015M/D	

Analysis Batch: 8899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-1	FY OX Eff	Total/NA	Air	8015M/D	
885-8028-2	FY COMB Inf	Total/NA	Air	8015M/D	
MB 885-8899/7	Method Blank	Total/NA	Air	8015M/D	
LCS 885-8899/6	Lab Control Sample	Total/NA	Air	8015M/D	
885-8028-1 DU	FY OX Eff	Total/NA	Air	8015M/D	

Analysis Batch: 8902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-1	FY OX Eff	Total/NA	Air	8021B	
885-8028-2	FY COMB Inf	Total/NA	Air	8021B	
MB 885-8902/7	Method Blank	Total/NA	Air	8021B	
LCS 885-8902/6	Lab Control Sample	Total/NA	Air	8021B	
885-8028-1 DU	FY OX Eff	Total/NA	Air	8021B	

GC Semi VOA

Prep Batch: 8615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-3	FY Raw	Total/NA	Water	8011	
885-8028-4	FY Treated Eff	Total/NA	Water	8011	
885-8028-5	Trip Blank	Total/NA	Water	8011	
MB 885-8615/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-8615/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-8615/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-8615/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 8616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-4	FY Treated Eff	Total/NA	Water	8011	8615
885-8028-5	Trip Blank	Total/NA	Water	8011	8615
MB 885-8615/3-A	Method Blank	Total/NA	Water	8011	8615
LCS 885-8615/4-A	Lab Control Sample	Total/NA	Water	8011	8615
LCSD 885-8615/5-A	Lab Control Sample Dup	Total/NA	Water	8011	8615
MRL 885-8615/1-A	Lab Control Sample	Total/NA	Water	8011	8615

GC Semi VOA

Analysis Batch: 8733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-3	FY Raw	Total/NA	Water	8011	8615

Prep Batch: 8753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-3	FY Raw	Total/NA	Water	3511	
885-8028-4	FY Treated Eff	Total/NA	Water	3511	
MB 885-8753/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-8753/2-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 8775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-3	FY Raw	Total/NA	Water	8015M/D	8753
885-8028-4	FY Treated Eff	Total/NA	Water	8015M/D	8753
MB 885-8753/1-A	Method Blank	Total/NA	Water	8015M/D	8753
LCS 885-8753/2-A	Lab Control Sample	Total/NA	Water	8015M/D	8753

HPLC/IC

Analysis Batch: 8552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-3	FY Raw	Total/NA	Water	300.0	
885-8028-4	FY Treated Eff	Total/NA	Water	300.0	
MB 885-8552/4	Method Blank	Total/NA	Water	300.0	
LCS 885-8552/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-8552/3	Lab Control Sample	Total/NA	Water	300.0	
885-8028-3 MS	FY Raw	Total/NA	Water	300.0	
885-8028-3 MSD	FY Raw	Total/NA	Water	300.0	
885-8028-4 MS	FY Treated Eff	Total/NA	Water	300.0	
885-8028-4 MSD	FY Treated Eff	Total/NA	Water	300.0	

Analysis Batch: 8553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-3	FY Raw	Total/NA	Water	300.0	
885-8028-3	FY Raw	Total/NA	Water	300.0	
885-8028-4	FY Treated Eff	Total/NA	Water	300.0	
MB 885-8553/4	Method Blank	Total/NA	Water	300.0	
LCS 885-8553/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-8553/3	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 8547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8028-3	FY Raw	Total/NA	Water	2540C	
885-8028-4	FY Treated Eff	Total/NA	Water	2540C	
MB 885-8547/1	Method Blank	Total/NA	Water	2540C	
LCS 885-8547/2	Lab Control Sample	Total/NA	Water	2540C	
885-8028-4 DU	FY Treated Eff	Total/NA	Water	2540C	

Client Sample ID: FY OX Eff

Lab Sample ID: 885-8028-1

Date Collected: 07/12/24 12:15

Matrix: Air

Date Received: 07/15/24 13:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	8899	JP	EET ALB	07/19/24 16:39
Total/NA	Analysis	8021B		1	8902	JP	EET ALB	07/19/24 16:39

Client Sample ID: FY COMB Inf

Lab Sample ID: 885-8028-2

Date Collected: 07/12/24 12:23

Matrix: Air

Date Received: 07/15/24 13:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	8899	JP	EET ALB	07/19/24 17:03
Total/NA	Analysis	8021B		50	8902	JP	EET ALB	07/19/24 17:03

Client Sample ID: FY Raw

Lab Sample ID: 885-8028-3

Date Collected: 07/12/24 08:48

Matrix: Water

Date Received: 07/15/24 13:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	9038	CM	EET ALB	07/24/24 20:41
Total/NA	Analysis	8015M/D		1	8545	AT	EET ALB	07/17/24 01:45
Total/NA	Prep	8011			8615	MB	EET ALB	07/18/24 07:10
Total/NA	Analysis	8011		20	8733	MB	EET ALB	07/19/24 08:11
Total/NA	Prep	3511			8753	KR	EET ALB	07/19/24 09:04
Total/NA	Analysis	8015M/D		1	8775	PD	EET ALB	07/19/24 10:57
Total/NA	Analysis	300.0		1	8553	JT	EET ALB	07/16/24 11:39
Total/NA	Analysis	300.0		20	8553	JT	EET ALB	07/16/24 12:16
Total/NA	Analysis	300.0		5	8552	JT	EET ALB	07/16/24 17:00
Total/NA	Analysis	2540C		1	8547	ES	EET ALB	07/17/24 09:01

Client Sample ID: FY Treated Eff

Lab Sample ID: 885-8028-4

Date Collected: 07/12/24 08:32

Matrix: Water

Date Received: 07/15/24 13:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	9038	CM	EET ALB	07/24/24 21:05
Total/NA	Analysis	8015M/D		1	8545	AT	EET ALB	07/17/24 02:06
Total/NA	Prep	8011			8615	MB	EET ALB	07/18/24 07:10
Total/NA	Analysis	8011		1	8616	MB	EET ALB	07/18/24 13:49
Total/NA	Prep	3511			8753	KR	EET ALB	07/19/24 09:04
Total/NA	Analysis	8015M/D		1	8775	PD	EET ALB	07/19/24 11:10
Total/NA	Analysis	300.0		20	8553	JT	EET ALB	07/16/24 13:05
Total/NA	Analysis	300.0		5	8552	JT	EET ALB	07/16/24 17:12
Total/NA	Analysis	2540C		1	8547	ES	EET ALB	07/17/24 09:01

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-8028-1
Project/Site: Former Y Station

Client Sample ID: Trip Blank
Lab Sample ID: 885-8028-5

Date Collected: 07/12/24 00:00
Matrix: Water

Date Received: 07/15/24 13:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	9038	CM	EET ALB	07/24/24 21:30
Total/NA	Prep	8011			8615	MB	EET ALB	07/18/24 07:10
Total/NA	Analysis	8011		1	8616	MB	EET ALB	07/18/24 14:06

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-8028-1
Project/Site: Former Y Station

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-8028-1
Project/Site: Former Y Station

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Chain-of-Custody Record

Client: DBSA

Mailing Address: 6020 Academy Rd NE STE 100, Albuquerque NM 87109

Phone #: 505-822-9400

email or Fax#: gherrmann@geo-logic.com

QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: ☑ Standard ☐ Rush

Project Name: Former Y Station

Project #: DB18.1157

Project Manager: G. Herrmann

Sampler: B. Constand

On Ice: ☑ Yes ☐ No

# of Coolers: 1 (dry)

Cooler Temp (including CF): -0.3+0.1=-0.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABOR

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 871

Tel. 505-345-3975 Fax 505-345-4107

885-8028 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TPH GRO 8015B	Sulfate/Chloride 300.0	Nitrate (as N) 300.0	TDS SM2540C	VOC's 8021B
7/12/24	12:15	Air	FY OX Eff	1-1L Tedlar	N/A	1	X	X													
	12:23		FY COMB Inf			2	X	X													
	8:48	GW	FY Raw	Varies	Varies	3				X				X			X	X	X	X	
	8:32		FY Treated Eff			4				X				X			X	X	X	X	
			Trip Blank			5															

Date	Time	Relinquished by:	Received by	Via:	Date	Time
7/15/24	13:12			CDO	7-15-24	1312
Date	Time	Relinquished by:	Received by	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-8028-1

Login Number: 8028

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 8/14/2024 9:09:01 AM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-8883-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

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

Authorization



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8/14/2024 9:09:01 AM

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
885-8883-1

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 7/30/2024 2:41 PM. 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 1.2°C.

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

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

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

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

GC Semi VOA
Method 8011: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-9789 and analytical batch 885-9798 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8011: The method reporting limit check (MRL) for preparation batch 885-9789 and analytical batch 885-9798 recovered outside control limits for the following analyte: DBCP. These analytes were biased low in the MRL but is not a requested analyte, therefore, the data have been reported.

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

HPLC/IC
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: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-8883-1

Client Sample ID: FY Treated Eff
Date Collected: 07/29/24 12:24
Date Received: 07/30/24 14:41

Lab Sample ID: 885-8883-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/06/24 05:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/06/24 05:54	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			08/06/24 05:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/06/24 05:54	1
1,1-Dichloroethane	ND		1.0		ug/L			08/06/24 05:54	1
1,1-Dichloroethene	ND		1.0		ug/L			08/06/24 05:54	1
1,1-Dichloropropene	ND		1.0		ug/L			08/06/24 05:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/06/24 05:54	1
1,2,3-Trichloropropane	ND		2.0		ug/L			08/06/24 05:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/06/24 05:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/06/24 05:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/06/24 05:54	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/06/24 05:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/06/24 05:54	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			08/06/24 05:54	1
1,2-Dichloropropane	ND		1.0		ug/L			08/06/24 05:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/06/24 05:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/06/24 05:54	1
1,3-Dichloropropane	ND		1.0		ug/L			08/06/24 05:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/06/24 05:54	1
1-Methylnaphthalene	ND		4.0		ug/L			08/06/24 05:54	1
2,2-Dichloropropane	ND		2.0		ug/L			08/06/24 05:54	1
2-Butanone	ND		10		ug/L			08/06/24 05:54	1
2-Chlorotoluene	ND		1.0		ug/L			08/06/24 05:54	1
2-Hexanone	ND		10		ug/L			08/06/24 05:54	1
2-Methylnaphthalene	ND		4.0		ug/L			08/06/24 05:54	1
4-Chlorotoluene	ND		1.0		ug/L			08/06/24 05:54	1
4-Isopropyltoluene	ND		1.0		ug/L			08/06/24 05:54	1
4-Methyl-2-pentanone	ND		10		ug/L			08/06/24 05:54	1
Acetone	ND		10		ug/L			08/06/24 05:54	1
Benzene	ND		1.0		ug/L			08/06/24 05:54	1
Bromobenzene	ND		1.0		ug/L			08/06/24 05:54	1
Bromodichloromethane	ND		1.0		ug/L			08/06/24 05:54	1
Dibromochloromethane	ND		1.0		ug/L			08/06/24 05:54	1
Bromoform	ND		1.0		ug/L			08/06/24 05:54	1
Bromomethane	ND		3.0		ug/L			08/06/24 05:54	1
Carbon disulfide	ND		10		ug/L			08/06/24 05:54	1
Carbon tetrachloride	ND		1.0		ug/L			08/06/24 05:54	1
Chlorobenzene	ND		1.0		ug/L			08/06/24 05:54	1
Chloroethane	ND		2.0		ug/L			08/06/24 05:54	1
Chloroform	ND		1.0		ug/L			08/06/24 05:54	1
Chloromethane	ND		3.0		ug/L			08/06/24 05:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/06/24 05:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/06/24 05:54	1
Dibromomethane	ND		1.0		ug/L			08/06/24 05:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/06/24 05:54	1
Ethylbenzene	ND		1.0		ug/L			08/06/24 05:54	1
Hexachlorobutadiene	ND		1.0		ug/L			08/06/24 05:54	1
Isopropylbenzene	ND		1.0		ug/L			08/06/24 05:54	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-8883-1

Client Sample ID: FY Treated Eff

Date Collected: 07/29/24 12:24
Date Received: 07/30/24 14:41

Lab Sample ID: 885-8883-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			08/06/24 05:54	1
Methylene Chloride	ND		3.0		ug/L			08/06/24 05:54	1
n-Butylbenzene	ND		3.0		ug/L			08/06/24 05:54	1
N-Propylbenzene	ND		1.0		ug/L			08/06/24 05:54	1
Naphthalene	ND		2.0		ug/L			08/06/24 05:54	1
sec-Butylbenzene	ND		1.0		ug/L			08/06/24 05:54	1
Styrene	ND		1.0		ug/L			08/06/24 05:54	1
tert-Butylbenzene	ND		1.0		ug/L			08/06/24 05:54	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			08/06/24 05:54	1
Toluene	ND		1.0		ug/L			08/06/24 05:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/06/24 05:54	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/06/24 05:54	1
Trichloroethene (TCE)	ND		1.0		ug/L			08/06/24 05:54	1
Trichlorofluoromethane	ND		1.0		ug/L			08/06/24 05:54	1
Vinyl chloride	ND		1.0		ug/L			08/06/24 05:54	1
Xylenes, Total	ND		1.5		ug/L			08/06/24 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*08/06/24 05:54*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/06/24 05:54*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/06/24 05:54*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/06/24 05:54*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L			08/01/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 270*		*08/01/24 13:57*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0095		ug/L		08/06/24 10:14	08/06/24 17:18	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		08/05/24 10:27	08/13/24 16:17	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		08/05/24 10:27	08/13/24 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*46 - 159*	*08/05/24 10:27*	*08/13/24 16:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88**		10		mg/L			07/31/24 09:53	20
Nitrate as N	**1.6**		0.10		mg/L			07/31/24 09:40	1
Sulfate	**48**		10		mg/L			07/31/24 09:53	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**480**		50		mg/L			08/01/24 10:50	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-8883-1

Client Sample ID: FY Raw
Date Collected: 07/29/24 14:05
Date Received: 07/30/24 14:41

Lab Sample ID: 885-8883-2
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			08/06/24 06:23	5
1,1,1-Trichloroethane	ND		5.0		ug/L			08/06/24 06:23	5
1,1,2,2-Tetrachloroethane	ND		10		ug/L			08/06/24 06:23	5
1,1,2-Trichloroethane	ND		5.0		ug/L			08/06/24 06:23	5
1,1-Dichloroethane	ND		5.0		ug/L			08/06/24 06:23	5
1,1-Dichloroethene	ND		5.0		ug/L			08/06/24 06:23	5
1,1-Dichloropropene	ND		5.0		ug/L			08/06/24 06:23	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			08/06/24 06:23	5
1,2,3-Trichloropropane	ND		10		ug/L			08/06/24 06:23	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			08/06/24 06:23	5
1,2,4-Trimethylbenzene	**9.1**		5.0		ug/L			08/06/24 06:23	5
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			08/06/24 06:23	5
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			08/06/24 06:23	5
1,2-Dichlorobenzene	ND		5.0		ug/L			08/06/24 06:23	5
1,2-Dichloroethane (EDC)	**82**		5.0		ug/L			08/06/24 06:23	5
1,2-Dichloropropane	ND		5.0		ug/L			08/06/24 06:23	5
1,3,5-Trimethylbenzene	**7.8**		5.0		ug/L			08/06/24 06:23	5
1,3-Dichlorobenzene	ND		5.0		ug/L			08/06/24 06:23	5
1,3-Dichloropropane	ND		5.0		ug/L			08/06/24 06:23	5
1,4-Dichlorobenzene	ND		5.0		ug/L			08/06/24 06:23	5
1-Methylnaphthalene	ND		20		ug/L			08/06/24 06:23	5
2,2-Dichloropropane	ND		10		ug/L			08/06/24 06:23	5
2-Butanone	ND		50		ug/L			08/06/24 06:23	5
2-Chlorotoluene	ND		5.0		ug/L			08/06/24 06:23	5
2-Hexanone	ND		50		ug/L			08/06/24 06:23	5
2-Methylnaphthalene	ND		20		ug/L			08/06/24 06:23	5
4-Chlorotoluene	ND		5.0		ug/L			08/06/24 06:23	5
4-Isopropyltoluene	ND		5.0		ug/L			08/06/24 06:23	5
4-Methyl-2-pentanone	ND		50		ug/L			08/06/24 06:23	5
Acetone	ND		50		ug/L			08/06/24 06:23	5
Benzene	**13**		5.0		ug/L			08/06/24 06:23	5
Bromobenzene	ND		5.0		ug/L			08/06/24 06:23	5
Bromodichloromethane	ND		5.0		ug/L			08/06/24 06:23	5
Dibromochloromethane	ND		5.0		ug/L			08/06/24 06:23	5
Bromoform	ND		5.0		ug/L			08/06/24 06:23	5
Bromomethane	ND		15		ug/L			08/06/24 06:23	5
Carbon disulfide	ND		50		ug/L			08/06/24 06:23	5
Carbon tetrachloride	ND		5.0		ug/L			08/06/24 06:23	5
Chlorobenzene	ND		5.0		ug/L			08/06/24 06:23	5
Chloroethane	ND		10		ug/L			08/06/24 06:23	5
Chloroform	ND		5.0		ug/L			08/06/24 06:23	5
Chloromethane	ND		15		ug/L			08/06/24 06:23	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			08/06/24 06:23	5
cis-1,3-Dichloropropene	ND		5.0		ug/L			08/06/24 06:23	5
Dibromomethane	ND		5.0		ug/L			08/06/24 06:23	5
Dichlorodifluoromethane	ND		5.0		ug/L			08/06/24 06:23	5
Ethylbenzene	ND		5.0		ug/L			08/06/24 06:23	5
Hexachlorobutadiene	ND		5.0		ug/L			08/06/24 06:23	5
Isopropylbenzene	ND		5.0		ug/L			08/06/24 06:23	5

Client Sample ID: FY Raw
Lab Sample ID: 885-8883-2
Date Collected: 07/29/24 14:05
Matrix: Water
Date Received: 07/30/24 14:41

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			08/06/24 06:23	5
Methylene Chloride	ND		15		ug/L			08/06/24 06:23	5
n-Butylbenzene	ND		15		ug/L			08/06/24 06:23	5
N-Propylbenzene	ND		5.0		ug/L			08/06/24 06:23	5
Naphthalene	ND		10		ug/L			08/06/24 06:23	5
sec-Butylbenzene	ND		5.0		ug/L			08/06/24 06:23	5
Styrene	ND		5.0		ug/L			08/06/24 06:23	5
tert-Butylbenzene	ND		5.0		ug/L			08/06/24 06:23	5
Tetrachloroethene (PCE)	ND		5.0		ug/L			08/06/24 06:23	5
Toluene	ND		5.0		ug/L			08/06/24 06:23	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			08/06/24 06:23	5
trans-1,3-Dichloropropene	ND		5.0		ug/L			08/06/24 06:23	5
Trichloroethene (TCE)	ND		5.0		ug/L			08/06/24 06:23	5
Trichlorofluoromethane	ND		5.0		ug/L			08/06/24 06:23	5
Vinyl chloride	ND		5.0		ug/L			08/06/24 06:23	5
Xylenes, Total	**23**		7.5		ug/L			08/06/24 06:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*08/06/24 06:23*	*5*
Toluene-d8 (Surr)	*96*		*70 - 130*		*08/06/24 06:23*	*5*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/06/24 06:23*	*5*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/06/24 06:23*	*5*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.67**		0.050		mg/L			08/01/24 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*15 - 270*		*08/01/24 15:08*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.025**		0.0095		ug/L		08/06/24 10:14	08/06/24 17:35	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		08/05/24 10:27	08/13/24 16:41	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		08/05/24 10:27	08/13/24 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*46 - 159*	*08/05/24 10:27*	*08/13/24 16:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86**		10		mg/L			07/31/24 10:17	20
Nitrate as N	**1.7**		0.10		mg/L			07/31/24 10:05	1
Sulfate	**48**		10		mg/L			07/31/24 10:17	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**550**		50		mg/L			08/01/24 10:50	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-8883-1

Client Sample ID: FY OX Eff
Date Collected: 07/29/24 15:05
Date Received: 07/30/24 14:41
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-8883-3
Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	21		5.0		ug/L			08/01/24 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*15 - 412*		*08/01/24 11:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.4		0.10		ug/L			08/01/24 11:29	1
Ethylbenzene	0.15		0.10		ug/L			08/01/24 11:29	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			08/01/24 11:29	1
Toluene	2.0		0.10		ug/L			08/01/24 11:29	1
Xylenes, Total	0.56		0.20		ug/L			08/01/24 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*08/01/24 11:29*	*1*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-8883-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Comb Inf
Lab Sample ID: 885-8883-4
Date Collected: 07/29/24 15:13
Matrix: Air
Date Received: 07/30/24 14:41
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	5600		250		ug/L			08/01/24 12:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 412*		*08/01/24 12:17*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	56		5.0		ug/L			08/01/24 12:17	50
Ethylbenzene	23		5.0		ug/L			08/01/24 12:17	50
Methyl-tert-butyl Ether (MTBE)	ND		13		ug/L			08/01/24 12:17	50
Toluene	240		5.0		ug/L			08/01/24 12:17	50
Xylenes, Total	110		10		ug/L			08/01/24 12:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*08/01/24 12:17*	*50*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-8883-1

Client Sample ID: FY DTA

Lab Sample ID: 885-8883-5

Date Collected: 07/29/24 14:53
Matrix: Air
Date Received: 07/30/24 14:41
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L			08/01/24 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*15 - 412*		*08/01/24 12:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10		ug/L			08/01/24 12:40	1
Ethylbenzene	ND		0.10		ug/L			08/01/24 12:40	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			08/01/24 12:40	1
Toluene	ND		0.10		ug/L			08/01/24 12:40	1
Xylenes, Total	ND		0.20		ug/L			08/01/24 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*08/01/24 12:40*	*1*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-8883-1

Client Sample ID: Trip Blank
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:41

Lab Sample ID: 885-8883-6
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/06/24 06:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/06/24 06:51	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			08/06/24 06:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/06/24 06:51	1
1,1-Dichloroethane	ND		1.0		ug/L			08/06/24 06:51	1
1,1-Dichloroethene	ND		1.0		ug/L			08/06/24 06:51	1
1,1-Dichloropropene	ND		1.0		ug/L			08/06/24 06:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/06/24 06:51	1
1,2,3-Trichloropropane	ND		2.0		ug/L			08/06/24 06:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/06/24 06:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/06/24 06:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/06/24 06:51	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/06/24 06:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/06/24 06:51	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			08/06/24 06:51	1
1,2-Dichloropropane	ND		1.0		ug/L			08/06/24 06:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/06/24 06:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/06/24 06:51	1
1,3-Dichloropropane	ND		1.0		ug/L			08/06/24 06:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/06/24 06:51	1
1-Methylnaphthalene	ND		4.0		ug/L			08/06/24 06:51	1
2,2-Dichloropropane	ND		2.0		ug/L			08/06/24 06:51	1
2-Butanone	ND		10		ug/L			08/06/24 06:51	1
2-Chlorotoluene	ND		1.0		ug/L			08/06/24 06:51	1
2-Hexanone	ND		10		ug/L			08/06/24 06:51	1
2-Methylnaphthalene	ND		4.0		ug/L			08/06/24 06:51	1
4-Chlorotoluene	ND		1.0		ug/L			08/06/24 06:51	1
4-Isopropyltoluene	ND		1.0		ug/L			08/06/24 06:51	1
4-Methyl-2-pentanone	ND		10		ug/L			08/06/24 06:51	1
Acetone	ND		10		ug/L			08/06/24 06:51	1
Benzene	ND		1.0		ug/L			08/06/24 06:51	1
Bromobenzene	ND		1.0		ug/L			08/06/24 06:51	1
Bromodichloromethane	ND		1.0		ug/L			08/06/24 06:51	1
Dibromochloromethane	ND		1.0		ug/L			08/06/24 06:51	1
Bromoform	ND		1.0		ug/L			08/06/24 06:51	1
Bromomethane	ND		3.0		ug/L			08/06/24 06:51	1
Carbon disulfide	ND		10		ug/L			08/06/24 06:51	1
Carbon tetrachloride	ND		1.0		ug/L			08/06/24 06:51	1
Chlorobenzene	ND		1.0		ug/L			08/06/24 06:51	1
Chloroethane	ND		2.0		ug/L			08/06/24 06:51	1
Chloroform	ND		1.0		ug/L			08/06/24 06:51	1
Chloromethane	ND		3.0		ug/L			08/06/24 06:51	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/06/24 06:51	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/06/24 06:51	1
Dibromomethane	ND		1.0		ug/L			08/06/24 06:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/06/24 06:51	1
Ethylbenzene	ND		1.0		ug/L			08/06/24 06:51	1
Hexachlorobutadiene	ND		1.0		ug/L			08/06/24 06:51	1
Isopropylbenzene	ND		1.0		ug/L			08/06/24 06:51	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-8883-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-8883-6
Date Collected: 07/29/24 00:00
Matrix: Water
Date Received: 07/30/24 14:41

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			08/06/24 06:51	1
Methylene Chloride	ND		3.0		ug/L			08/06/24 06:51	1
n-Butylbenzene	ND		3.0		ug/L			08/06/24 06:51	1
N-Propylbenzene	ND		1.0		ug/L			08/06/24 06:51	1
Naphthalene	ND		2.0		ug/L			08/06/24 06:51	1
sec-Butylbenzene	ND		1.0		ug/L			08/06/24 06:51	1
Styrene	ND		1.0		ug/L			08/06/24 06:51	1
tert-Butylbenzene	ND		1.0		ug/L			08/06/24 06:51	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			08/06/24 06:51	1
Toluene	ND		1.0		ug/L			08/06/24 06:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/06/24 06:51	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/06/24 06:51	1
Trichloroethene (TCE)	ND		1.0		ug/L			08/06/24 06:51	1
Trichlorofluoromethane	ND		1.0		ug/L			08/06/24 06:51	1
Vinyl chloride	ND		1.0		ug/L			08/06/24 06:51	1
Xylenes, Total	ND		1.5		ug/L			08/06/24 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*08/06/24 06:51*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*08/06/24 06:51*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/06/24 06:51*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/06/24 06:51*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0095		ug/L		08/06/24 10:14	08/06/24 17:52	1

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

Lab Sample ID: MB 885-9715/30
Matrix: Water
Analysis Batch: 9715

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/06/24 02:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/06/24 02:34	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			08/06/24 02:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/06/24 02:34	1
1,1-Dichloroethane	ND		1.0		ug/L			08/06/24 02:34	1
1,1-Dichloroethene	ND		1.0		ug/L			08/06/24 02:34	1
1,1-Dichloropropene	ND		1.0		ug/L			08/06/24 02:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/06/24 02:34	1
1,2,3-Trichloropropane	ND		2.0		ug/L			08/06/24 02:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/06/24 02:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/06/24 02:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/06/24 02:34	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/06/24 02:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/06/24 02:34	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			08/06/24 02:34	1
1,2-Dichloropropane	ND		1.0		ug/L			08/06/24 02:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/06/24 02:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/06/24 02:34	1
1,3-Dichloropropane	ND		1.0		ug/L			08/06/24 02:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/06/24 02:34	1
1-Methylnaphthalene	ND		4.0		ug/L			08/06/24 02:34	1
2,2-Dichloropropane	ND		2.0		ug/L			08/06/24 02:34	1
2-Butanone	ND		10		ug/L			08/06/24 02:34	1
2-Chlorotoluene	ND		1.0		ug/L			08/06/24 02:34	1
2-Hexanone	ND		10		ug/L			08/06/24 02:34	1
2-Methylnaphthalene	ND		4.0		ug/L			08/06/24 02:34	1
4-Chlorotoluene	ND		1.0		ug/L			08/06/24 02:34	1
4-Isopropyltoluene	ND		1.0		ug/L			08/06/24 02:34	1
4-Methyl-2-pentanone	ND		10		ug/L			08/06/24 02:34	1
Acetone	ND		10		ug/L			08/06/24 02:34	1
Benzene	ND		1.0		ug/L			08/06/24 02:34	1
Bromobenzene	ND		1.0		ug/L			08/06/24 02:34	1
Bromodichloromethane	ND		1.0		ug/L			08/06/24 02:34	1
Dibromochloromethane	ND		1.0		ug/L			08/06/24 02:34	1
Bromoform	ND		1.0		ug/L			08/06/24 02:34	1
Bromomethane	ND		3.0		ug/L			08/06/24 02:34	1
Carbon disulfide	ND		10		ug/L			08/06/24 02:34	1
Carbon tetrachloride	ND		1.0		ug/L			08/06/24 02:34	1
Chlorobenzene	ND		1.0		ug/L			08/06/24 02:34	1
Chloroethane	ND		2.0		ug/L			08/06/24 02:34	1
Chloroform	ND		1.0		ug/L			08/06/24 02:34	1
Chloromethane	ND		3.0		ug/L			08/06/24 02:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/06/24 02:34	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/06/24 02:34	1
Dibromomethane	ND		1.0		ug/L			08/06/24 02:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/06/24 02:34	1
Ethylbenzene	ND		1.0		ug/L			08/06/24 02:34	1
Hexachlorobutadiene	ND		1.0		ug/L			08/06/24 02:34	1

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

Lab Sample ID: MB 885-9715/30
Matrix: Water
Analysis Batch: 9715

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			08/06/24 02:34	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			08/06/24 02:34	1
Methylene Chloride	ND		3.0		ug/L			08/06/24 02:34	1
n-Butylbenzene	ND		3.0		ug/L			08/06/24 02:34	1
N-Propylbenzene	ND		1.0		ug/L			08/06/24 02:34	1
Naphthalene	ND		2.0		ug/L			08/06/24 02:34	1
sec-Butylbenzene	ND		1.0		ug/L			08/06/24 02:34	1
Styrene	ND		1.0		ug/L			08/06/24 02:34	1
tert-Butylbenzene	ND		1.0		ug/L			08/06/24 02:34	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			08/06/24 02:34	1
Toluene	ND		1.0		ug/L			08/06/24 02:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/06/24 02:34	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/06/24 02:34	1
Trichloroethene (TCE)	ND		1.0		ug/L			08/06/24 02:34	1
Trichlorofluoromethane	ND		1.0		ug/L			08/06/24 02:34	1
Vinyl chloride	ND		1.0		ug/L			08/06/24 02:34	1
Xylenes, Total	ND		1.5		ug/L			08/06/24 02:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*08/06/24 02:34*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/06/24 02:34*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/06/24 02:34*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*08/06/24 02:34*	*1*

Lab Sample ID: MB 885-9715/4
Matrix: Water
Analysis Batch: 9715

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/05/24 13:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/05/24 13:40	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			08/05/24 13:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/05/24 13:40	1
1,1-Dichloroethane	ND		1.0		ug/L			08/05/24 13:40	1
1,1-Dichloroethene	ND		1.0		ug/L			08/05/24 13:40	1
1,1-Dichloropropene	ND		1.0		ug/L			08/05/24 13:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/05/24 13:40	1
1,2,3-Trichloropropane	ND		2.0		ug/L			08/05/24 13:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/05/24 13:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/05/24 13:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/05/24 13:40	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/05/24 13:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/05/24 13:40	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			08/05/24 13:40	1
1,2-Dichloropropane	ND		1.0		ug/L			08/05/24 13:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/05/24 13:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/05/24 13:40	1
1,3-Dichloropropane	ND		1.0		ug/L			08/05/24 13:40	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-8883-1

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

Lab Sample ID: MB 885-9715/4
Matrix: Water
Analysis Batch: 9715

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			08/05/24 13:40	1
1-Methylnaphthalene	ND		4.0		ug/L			08/05/24 13:40	1
2,2-Dichloropropane	ND		2.0		ug/L			08/05/24 13:40	1
2-Butanone	ND		10		ug/L			08/05/24 13:40	1
2-Chlorotoluene	ND		1.0		ug/L			08/05/24 13:40	1
2-Hexanone	ND		10		ug/L			08/05/24 13:40	1
2-Methylnaphthalene	ND		4.0		ug/L			08/05/24 13:40	1
4-Chlorotoluene	ND		1.0		ug/L			08/05/24 13:40	1
4-Isopropyltoluene	ND		1.0		ug/L			08/05/24 13:40	1
4-Methyl-2-pentanone	ND		10		ug/L			08/05/24 13:40	1
Acetone	ND		10		ug/L			08/05/24 13:40	1
Benzene	ND		1.0		ug/L			08/05/24 13:40	1
Bromobenzene	ND		1.0		ug/L			08/05/24 13:40	1
Bromodichloromethane	ND		1.0		ug/L			08/05/24 13:40	1
Dibromochloromethane	ND		1.0		ug/L			08/05/24 13:40	1
Bromoform	ND		1.0		ug/L			08/05/24 13:40	1
Bromomethane	ND		3.0		ug/L			08/05/24 13:40	1
Carbon disulfide	ND		10		ug/L			08/05/24 13:40	1
Carbon tetrachloride	ND		1.0		ug/L			08/05/24 13:40	1
Chlorobenzene	ND		1.0		ug/L			08/05/24 13:40	1
Chloroethane	ND		2.0		ug/L			08/05/24 13:40	1
Chloroform	ND		1.0		ug/L			08/05/24 13:40	1
Chloromethane	ND		3.0		ug/L			08/05/24 13:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/05/24 13:40	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/05/24 13:40	1
Dibromomethane	ND		1.0		ug/L			08/05/24 13:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/05/24 13:40	1
Ethylbenzene	ND		1.0		ug/L			08/05/24 13:40	1
Hexachlorobutadiene	ND		1.0		ug/L			08/05/24 13:40	1
Isopropylbenzene	ND		1.0		ug/L			08/05/24 13:40	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			08/05/24 13:40	1
Methylene Chloride	ND		3.0		ug/L			08/05/24 13:40	1
n-Butylbenzene	ND		3.0		ug/L			08/05/24 13:40	1
N-Propylbenzene	ND		1.0		ug/L			08/05/24 13:40	1
Naphthalene	ND		2.0		ug/L			08/05/24 13:40	1
sec-Butylbenzene	ND		1.0		ug/L			08/05/24 13:40	1
Styrene	ND		1.0		ug/L			08/05/24 13:40	1
tert-Butylbenzene	ND		1.0		ug/L			08/05/24 13:40	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			08/05/24 13:40	1
Toluene	ND		1.0		ug/L			08/05/24 13:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/05/24 13:40	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/05/24 13:40	1
Trichloroethene (TCE)	ND		1.0		ug/L			08/05/24 13:40	1
Trichlorofluoromethane	ND		1.0		ug/L			08/05/24 13:40	1
Vinyl chloride	ND		1.0		ug/L			08/05/24 13:40	1
Xylenes, Total	ND		1.5		ug/L			08/05/24 13:40	1

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

Lab Sample ID: MB 885-9715/4
Matrix: Water
Analysis Batch: 9715

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*08/05/24 13:40*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*08/05/24 13:40*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/05/24 13:40*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*08/05/24 13:40*	*1*

Lab Sample ID: LCS 885-9715/29
Matrix: Water
Analysis Batch: 9715

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.1	19.1		ug/L		95	70 - 130
Benzene	20.1	20.3		ug/L		101	70 - 130
Chlorobenzene	20.1	20.2		ug/L		100	70 - 130
Toluene	20.2	20.4		ug/L		101	70 - 130
Trichloroethene (TCE)	20.2	16.6		ug/L		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-9617/10
Matrix: Air
Analysis Batch: 9617

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			08/01/24 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*98*		*15 - 412*		*08/01/24 11:06*	*1*

Lab Sample ID: LCS 885-9617/9
Matrix: Air
Analysis Batch: 9617

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	50.0	48.0		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*200*		*15 - 412*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-8883-3 DU
Matrix: Air
Analysis Batch: 9617

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	21			21.5		ug/L				2	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*15 - 412*

Lab Sample ID: MB 885-9619/8
Matrix: Water
Analysis Batch: 9619

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L			08/01/24 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 270*		*08/01/24 11:06*	*1*

Lab Sample ID: LCS 885-9619/7
Matrix: Water
Analysis Batch: 9619

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			0.500	0.480		mg/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*200*		*15 - 270*

Lab Sample ID: 885-8883-1 MS
Matrix: Water
Analysis Batch: 9619

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		0.500	0.531		mg/L		102	41 - 148		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*209*		*15 - 270*

Lab Sample ID: 885-8883-1 MSD
Matrix: Water
Analysis Batch: 9619

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		0.500	0.528		mg/L		102	41 - 148	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*214*		*15 - 270*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-9618/10
Matrix: Air
Analysis Batch: 9618

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10		ug/L			08/01/24 11:06	1
Ethylbenzene	ND		0.10		ug/L			08/01/24 11:06	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			08/01/24 11:06	1
Toluene	ND		0.10		ug/L			08/01/24 11:06	1
Xylenes, Total	ND		0.20		ug/L			08/01/24 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*08/01/24 11:06*	*1*

Lab Sample ID: LCS 885-9618/9
Matrix: Air
Analysis Batch: 9618

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.00	1.79		ug/L		90	70 - 130		
Ethylbenzene			2.00	1.67		ug/L		83	70 - 130		
m&p-Xylene			4.00	3.39		ug/L		85	70 - 130		
Methyl-tert-butyl Ether (MTBE)			2.00	1.61		ug/L		80	70 - 130		
o-Xylene			2.00	1.67		ug/L		84	70 - 130		
Toluene			2.00	1.67		ug/L		84	70 - 130		
Xylenes, Total			6.00	5.07		ug/L		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 885-8883-3 DU
Matrix: Air
Analysis Batch: 9618

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	3.4			3.40		ug/L				1	20
Ethylbenzene	0.15			0.156		ug/L				2	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Toluene	2.0			2.09		ug/L				2	20
Xylenes, Total	0.56			0.570		ug/L				2	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-9789/3-A
Matrix: Water
Analysis Batch: 9798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9789

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010		ug/L		08/06/24 10:14	08/06/24 16:26	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 885-9789/4-A
Matrix: Water
Analysis Batch: 9798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.0931		ug/L		93	70 - 130

Lab Sample ID: LCSD 885-9789/5-A
Matrix: Water
Analysis Batch: 9798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9789

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.104		ug/L		104	70 - 130	11	20

Lab Sample ID: MRL 885-9789/1-A
Matrix: Water
Analysis Batch: 9798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9789

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.00895	J	ug/L		90	60 - 140

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-9727/1-A
Matrix: Water
Analysis Batch: 10163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9727

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		08/05/24 10:27	08/13/24 15:29	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		08/05/24 10:27	08/13/24 15:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*46 - 159*	*08/05/24 10:27*	*08/13/24 15:29*	*1*

Lab Sample ID: LCS 885-9727/2-A
Matrix: Water
Analysis Batch: 10163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2.50	2.78		mg/L		111	57 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*100*		*46 - 159*

Lab Sample ID: 885-8883-2 MS
Matrix: Water
Analysis Batch: 10163

Client Sample ID: FY Raw
Prep Type: Total/NA
Prep Batch: 9727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		2.50	2.81		mg/L		113	33 - 161

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-8883-2 MS
Matrix: Water
Analysis Batch: 10163

Client Sample ID: FY Raw
Prep Type: Total/NA
Prep Batch: 9727

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*91*		*46 - 159*

Lab Sample ID: 885-8883-2 MSD
Matrix: Water
Analysis Batch: 10163

Client Sample ID: FY Raw
Prep Type: Total/NA
Prep Batch: 9727

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		2.50	2.76		mg/L		110	33 - 161	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	*90*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-9538/4
Matrix: Water
Analysis Batch: 9538

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			07/31/24 09:16	1
Sulfate	ND		0.50		mg/L			07/31/24 09:16	1

Lab Sample ID: LCS 885-9538/5
Matrix: Water
Analysis Batch: 9538

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.81		mg/L		96	90 - 110		
Sulfate			10.0	9.61		mg/L		96	90 - 110		

Lab Sample ID: MRL 885-9538/3
Matrix: Water
Analysis Batch: 9538

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.520		mg/L		104	50 - 150		
Sulfate			0.500	0.511		mg/L		102	50 - 150		

Lab Sample ID: MB 885-9539/4
Matrix: Water
Analysis Batch: 9539

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10		mg/L			07/31/24 09:16	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-9539/5
Matrix: Water
Analysis Batch: 9539

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.50		mg/L		100	90 - 110

Lab Sample ID: MRL 885-9539/3
Matrix: Water
Analysis Batch: 9539

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.0913	J	mg/L		91	50 - 150

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-9573/1
Matrix: Water
Analysis Batch: 9573

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50		mg/L			08/01/24 10:50	1

Lab Sample ID: LCS 885-9573/2
Matrix: Water
Analysis Batch: 9573

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1010		mg/L		101	80 - 120

GC/MS VOA

Analysis Batch: 9715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8883-1	FY Treated Eff	Total/NA	Water	8260B	
885-8883-2	FY Raw	Total/NA	Water	8260B	
885-8883-6	Trip Blank	Total/NA	Water	8260B	
MB 885-9715/30	Method Blank	Total/NA	Water	8260B	
MB 885-9715/4	Method Blank	Total/NA	Water	8260B	
LCS 885-9715/29	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 9617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8883-3	FY OX Eff	Total/NA	Air	8015M/D	
885-8883-4	FY Comb Inf	Total/NA	Air	8015M/D	
885-8883-5	FY DTA	Total/NA	Air	8015M/D	
MB 885-9617/10	Method Blank	Total/NA	Air	8015M/D	
LCS 885-9617/9	Lab Control Sample	Total/NA	Air	8015M/D	
885-8883-3 DU	FY OX Eff	Total/NA	Air	8015M/D	

Analysis Batch: 9618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8883-3	FY OX Eff	Total/NA	Air	8021B	
885-8883-4	FY Comb Inf	Total/NA	Air	8021B	
885-8883-5	FY DTA	Total/NA	Air	8021B	
MB 885-9618/10	Method Blank	Total/NA	Air	8021B	
LCS 885-9618/9	Lab Control Sample	Total/NA	Air	8021B	
885-8883-3 DU	FY OX Eff	Total/NA	Air	8021B	

Analysis Batch: 9619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8883-1	FY Treated Eff	Total/NA	Water	8015M/D	
885-8883-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-9619/8	Method Blank	Total/NA	Water	8015M/D	
LCS 885-9619/7	Lab Control Sample	Total/NA	Water	8015M/D	
885-8883-1 MS	FY Treated Eff	Total/NA	Water	8015M/D	
885-8883-1 MSD	FY Treated Eff	Total/NA	Water	8015M/D	

GC Semi VOA

Prep Batch: 9727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8883-1	FY Treated Eff	Total/NA	Water	3511	
885-8883-2	FY Raw	Total/NA	Water	3511	
MB 885-9727/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-9727/2-A	Lab Control Sample	Total/NA	Water	3511	
885-8883-2 MS	FY Raw	Total/NA	Water	3511	
885-8883-2 MSD	FY Raw	Total/NA	Water	3511	

Prep Batch: 9789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8883-1	FY Treated Eff	Total/NA	Water	8011	
885-8883-2	FY Raw	Total/NA	Water	8011	
885-8883-6	Trip Blank	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 9789 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-9789/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-9789/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-9789/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-9789/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 9798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8883-1	FY Treated Eff	Total/NA	Water	8011	9789
885-8883-2	FY Raw	Total/NA	Water	8011	9789
885-8883-6	Trip Blank	Total/NA	Water	8011	9789
MB 885-9789/3-A	Method Blank	Total/NA	Water	8011	9789
LCS 885-9789/4-A	Lab Control Sample	Total/NA	Water	8011	9789
LCSD 885-9789/5-A	Lab Control Sample Dup	Total/NA	Water	8011	9789
MRL 885-9789/1-A	Lab Control Sample	Total/NA	Water	8011	9789

Analysis Batch: 10163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8883-1	FY Treated Eff	Total/NA	Water	8015M/D	9727
885-8883-2	FY Raw	Total/NA	Water	8015M/D	9727
MB 885-9727/1-A	Method Blank	Total/NA	Water	8015M/D	9727
LCS 885-9727/2-A	Lab Control Sample	Total/NA	Water	8015M/D	9727
885-8883-2 MS	FY Raw	Total/NA	Water	8015M/D	9727
885-8883-2 MSD	FY Raw	Total/NA	Water	8015M/D	9727

HPLC/IC

Analysis Batch: 9538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8883-1	FY Treated Eff	Total/NA	Water	300.0	
885-8883-2	FY Raw	Total/NA	Water	300.0	
MB 885-9538/4	Method Blank	Total/NA	Water	300.0	
LCS 885-9538/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-9538/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 9539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8883-1	FY Treated Eff	Total/NA	Water	300.0	
885-8883-2	FY Raw	Total/NA	Water	300.0	
MB 885-9539/4	Method Blank	Total/NA	Water	300.0	
LCS 885-9539/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-9539/3	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 9573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8883-1	FY Treated Eff	Total/NA	Water	2540C	
885-8883-2	FY Raw	Total/NA	Water	2540C	
MB 885-9573/1	Method Blank	Total/NA	Water	2540C	
LCS 885-9573/2	Lab Control Sample	Total/NA	Water	2540C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-8883-1

Client Sample ID: FY Treated Eff

Lab Sample ID: 885-8883-1

Date Collected: 07/29/24 12:24

Matrix: Water

Date Received: 07/30/24 14:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	9715	JR	EET ALB	08/06/24 05:54
Total/NA	Analysis	8015M/D		1	9619	JP	EET ALB	08/01/24 13:57
Total/NA	Prep	8011			9789	DH	EET ALB	08/06/24 10:14
Total/NA	Analysis	8011		1	9798	DH	EET ALB	08/06/24 17:18
Total/NA	Prep	3511			9727	DH	EET ALB	08/05/24 10:27
Total/NA	Analysis	8015M/D		1	10163	KR	EET ALB	08/13/24 16:17
Total/NA	Analysis	300.0		1	9539	RC	EET ALB	07/31/24 09:40
Total/NA	Analysis	300.0		20	9538	RC	EET ALB	07/31/24 09:53
Total/NA	Analysis	2540C		1	9573	ES	EET ALB	08/01/24 10:50

Client Sample ID: FY Raw

Lab Sample ID: 885-8883-2

Date Collected: 07/29/24 14:05

Matrix: Water

Date Received: 07/30/24 14:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	9715	JR	EET ALB	08/06/24 06:23
Total/NA	Analysis	8015M/D		1	9619	JP	EET ALB	08/01/24 15:08
Total/NA	Prep	8011			9789	DH	EET ALB	08/06/24 10:14
Total/NA	Analysis	8011		1	9798	DH	EET ALB	08/06/24 17:35
Total/NA	Prep	3511			9727	DH	EET ALB	08/05/24 10:27
Total/NA	Analysis	8015M/D		1	10163	KR	EET ALB	08/13/24 16:41
Total/NA	Analysis	300.0		1	9539	RC	EET ALB	07/31/24 10:05
Total/NA	Analysis	300.0		20	9538	RC	EET ALB	07/31/24 10:17
Total/NA	Analysis	2540C		1	9573	ES	EET ALB	08/01/24 10:50

Client Sample ID: FY OX Eff

Lab Sample ID: 885-8883-3

Date Collected: 07/29/24 15:05

Matrix: Air

Date Received: 07/30/24 14:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	9617	JP	EET ALB	08/01/24 11:29
Total/NA	Analysis	8021B		1	9618	JP	EET ALB	08/01/24 11:29

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-8883-4

Date Collected: 07/29/24 15:13

Matrix: Air

Date Received: 07/30/24 14:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	9617	JP	EET ALB	08/01/24 12:17
Total/NA	Analysis	8021B		50	9618	JP	EET ALB	08/01/24 12:17

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-8883-1

Client Sample ID: FY DTA

Lab Sample ID: 885-8883-5

Date Collected: 07/29/24 14:53

Matrix: Air

Date Received: 07/30/24 14:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	9617	JP	EET ALB	08/01/24 12:40
Total/NA	Analysis	8021B		1	9618	JP	EET ALB	08/01/24 12:40

Client Sample ID: Trip Blank

Lab Sample ID: 885-8883-6

Date Collected: 07/29/24 00:00

Matrix: Water

Date Received: 07/30/24 14:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	9715	JR	EET ALB	08/06/24 06:51
Total/NA	Prep	8011			9789	DH	EET ALB	08/06/24 10:14
Total/NA	Analysis	8011		1	9798	DH	EET ALB	08/06/24 17:52

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-8883-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-8883-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Chain-of-Custody Record

Client:

Daniel B Stephens & Associates

Mailing Address: **6020 Academy Rd NE, STE 100**

Albuquerque, NM 87109

Phone #: **505-822-9400**

email or Fax#: **gherrmann@geo-logic.com**

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Former Y Station State Lead Site

Project #:

DB18.1157

Project Manager:

Grace Herrmann

Sampler: L Torres

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.4-0.2=1.2°C

HALL ENVIRONMENTAL ANALYSIS LABORA

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-8883 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO - EPA method 8015B / DRO	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
7/29/24	1424	H_2O	FY Treated Eff	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
	1405	H_2O	FY Raw	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
	1505	Air	FY OX Eff	1-Tedlar	None								X	X
	1513	Air	FY Comb Inf	1-Tedlar	None								X	X
	1453		FY DTA	1-Tedlar	None								X	X
			TRIP BLANK											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/30/24	1441		SCM	COC	7/30/24	(441
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-8883-1

Login Number: 8883

List Number: 1

Creator: Proctor, Nancy

List Source: Eurofins Albuquerque

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

8/14/24

1 2 3 4 5 6 7 8 9 10 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 9/24/2024 2:32:09 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-10044-1

Eurofins Albuquerque

Job Notes

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

Authorization



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Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10044-1
Project/Site: Former Y Station State Lead Site

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: 885-10044-1 Eurofins Albuquerque

Job Narrative
885-10044-1

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 8/15/2024 2:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 10.3°C and 15.1°C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

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

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

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

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

GC Semi VOA
Method 8011: The continuing calibration verification (CCV) associated with batch 885-11453 recovered above the upper control limit for 1,2-Dibromoethane (EDB). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: FY Treated Eff (885-10044-1), Trip Blank (885-10044-5) and (885-9806-D-1-A).

Method 8011: The continuing calibration verification (CCV) associated with batch 885-11453 recovered outside acceptance criteria, low biased, for 1,2-Dibromoethane (EDB). Samples are either out of hold or no sample is left for a re-extraction. Instrument is down for maintenance and could not analyze another sample injection. The following samples are associated FY Treated Eff (885-10044-1), Trip Blank (885-10044-5), (CCV 885-11101/2-A) and (885-9806-D-1-A).

Method 8011: The following sample was prepared outside of preparation holding time due to suspected compromised original batch contamination and prolonged instrument downtime due to needing complete maintenance and re-calibration: FY Raw (885-10044-2). Reporting with "H" flag and "E" estimated flag; all surrounding CCV and batch QC passed; dilution was ran with failing CCV criteria and dilution did not match similarly to original result or original 1X of the re-extract.

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

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

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

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10044-1

Client Sample ID: FY Treated Eff

Date Collected: 08/14/24 16:48
Date Received: 08/15/24 14:09

Lab Sample ID: 885-10044-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/23/24 15:52	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/23/24 15:52	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			08/23/24 15:52	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/23/24 15:52	1
1,1-Dichloroethane	ND		1.0		ug/L			08/23/24 15:52	1
1,1-Dichloroethene	ND		1.0		ug/L			08/23/24 15:52	1
1,1-Dichloropropene	ND		1.0		ug/L			08/23/24 15:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/23/24 15:52	1
1,2,3-Trichloropropane	ND		2.0		ug/L			08/23/24 15:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/23/24 15:52	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/23/24 15:52	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/23/24 15:52	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/23/24 15:52	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/23/24 15:52	1
1,2-Dichloroethane (EDC)	**2.2**		1.0		ug/L			08/23/24 15:52	1
1,2-Dichloropropane	ND		1.0		ug/L			08/23/24 15:52	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/23/24 15:52	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/23/24 15:52	1
1,3-Dichloropropane	ND		1.0		ug/L			08/23/24 15:52	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/23/24 15:52	1
1-Methylnaphthalene	ND		4.0		ug/L			08/23/24 15:52	1
2,2-Dichloropropane	ND		2.0		ug/L			08/23/24 15:52	1
2-Butanone	ND		10		ug/L			08/23/24 15:52	1
2-Chlorotoluene	ND		1.0		ug/L			08/23/24 15:52	1
2-Hexanone	ND		10		ug/L			08/23/24 15:52	1
2-Methylnaphthalene	ND		4.0		ug/L			08/23/24 15:52	1
4-Chlorotoluene	ND		1.0		ug/L			08/23/24 15:52	1
4-Isopropyltoluene	ND		1.0		ug/L			08/23/24 15:52	1
4-Methyl-2-pentanone	ND		10		ug/L			08/23/24 15:52	1
Acetone	ND		10		ug/L			08/23/24 15:52	1
Benzene	ND		1.0		ug/L			08/23/24 15:52	1
Bromobenzene	ND		1.0		ug/L			08/23/24 15:52	1
Bromodichloromethane	ND		1.0		ug/L			08/23/24 15:52	1
Dibromochloromethane	ND		1.0		ug/L			08/23/24 15:52	1
Bromoform	ND		1.0		ug/L			08/23/24 15:52	1
Bromomethane	ND		3.0		ug/L			08/23/24 15:52	1
Carbon disulfide	ND		10		ug/L			08/23/24 15:52	1
Carbon tetrachloride	ND		1.0		ug/L			08/23/24 15:52	1
Chlorobenzene	ND		1.0		ug/L			08/23/24 15:52	1
Chloroethane	ND		2.0		ug/L			08/23/24 15:52	1
Chloroform	ND		1.0		ug/L			08/23/24 15:52	1
Chloromethane	ND		3.0		ug/L			08/23/24 15:52	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/23/24 15:52	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/23/24 15:52	1
Dibromomethane	ND		1.0		ug/L			08/23/24 15:52	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/24 15:52	1
Ethylbenzene	ND		1.0		ug/L			08/23/24 15:52	1
Hexachlorobutadiene	ND		1.0		ug/L			08/23/24 15:52	1
Isopropylbenzene	ND		1.0		ug/L			08/23/24 15:52	1

Client Sample ID: FY Treated Eff
Date Collected: 08/14/24 16:48
Date Received: 08/15/24 14:09

Lab Sample ID: 885-10044-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			08/23/24 15:52	1
Methylene Chloride	ND		3.0		ug/L			08/23/24 15:52	1
n-Butylbenzene	ND		3.0		ug/L			08/23/24 15:52	1
N-Propylbenzene	ND		1.0		ug/L			08/23/24 15:52	1
Naphthalene	ND		2.0		ug/L			08/23/24 15:52	1
sec-Butylbenzene	ND		1.0		ug/L			08/23/24 15:52	1
Styrene	ND		1.0		ug/L			08/23/24 15:52	1
tert-Butylbenzene	ND		1.0		ug/L			08/23/24 15:52	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			08/23/24 15:52	1
Toluene	ND		1.0		ug/L			08/23/24 15:52	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/23/24 15:52	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/23/24 15:52	1
Trichloroethene (TCE)	ND		1.0		ug/L			08/23/24 15:52	1
Trichlorofluoromethane	ND		1.0		ug/L			08/23/24 15:52	1
Vinyl chloride	ND		1.0		ug/L			08/23/24 15:52	1
Xylenes, Total	ND		1.5		ug/L			08/23/24 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*08/23/24 15:52*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/23/24 15:52*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*08/23/24 15:52*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*08/23/24 15:52*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L			08/22/24 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 270*		*08/22/24 12:20*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.10		ug/L		08/20/24 10:45	08/31/24 22:07	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		08/19/24 09:23	08/19/24 20:46	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		08/19/24 09:23	08/19/24 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*46 - 159*	*08/19/24 09:23*	*08/19/24 20:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70**		10		mg/L			08/17/24 01:14	20
Sulfate	**48**		0.50		mg/L			08/17/24 01:01	1
Nitrate Nitrite as N	**1.5**		1.0		mg/L			08/17/24 11:29	5

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**480**		50		mg/L			08/20/24 13:06	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10044-1

Client Sample ID: FY Raw

Date Collected: 08/14/24 16:32
Date Received: 08/15/24 14:09

Lab Sample ID: 885-10044-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			08/23/24 16:16	2
1,1,1-Trichloroethane	ND		2.0		ug/L			08/23/24 16:16	2
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			08/23/24 16:16	2
1,1,2-Trichloroethane	ND		2.0		ug/L			08/23/24 16:16	2
1,1-Dichloroethane	ND		2.0		ug/L			08/23/24 16:16	2
1,1-Dichloroethene	ND		2.0		ug/L			08/23/24 16:16	2
1,1-Dichloropropene	ND		2.0		ug/L			08/23/24 16:16	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			08/23/24 16:16	2
1,2,3-Trichloropropane	ND		4.0		ug/L			08/23/24 16:16	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			08/23/24 16:16	2
1,2,4-Trimethylbenzene	**2.0**		2.0		ug/L			08/23/24 16:16	2
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			08/23/24 16:16	2
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			08/23/24 16:16	2
1,2-Dichlorobenzene	ND		2.0		ug/L			08/23/24 16:16	2
1,2-Dichloroethane (EDC)	**130**		2.0		ug/L			08/23/24 16:16	2
1,2-Dichloropropane	ND		2.0		ug/L			08/23/24 16:16	2
1,3,5-Trimethylbenzene	**6.5**		2.0		ug/L			08/23/24 16:16	2
1,3-Dichlorobenzene	ND		2.0		ug/L			08/23/24 16:16	2
1,3-Dichloropropane	ND		2.0		ug/L			08/23/24 16:16	2
1,4-Dichlorobenzene	ND		2.0		ug/L			08/23/24 16:16	2
1-Methylnaphthalene	ND		8.0		ug/L			08/23/24 16:16	2
2,2-Dichloropropane	ND		4.0		ug/L			08/23/24 16:16	2
2-Butanone	ND		20		ug/L			08/23/24 16:16	2
2-Chlorotoluene	ND		2.0		ug/L			08/23/24 16:16	2
2-Hexanone	ND		20		ug/L			08/23/24 16:16	2
2-Methylnaphthalene	ND		8.0		ug/L			08/23/24 16:16	2
4-Chlorotoluene	ND		2.0		ug/L			08/23/24 16:16	2
4-Isopropyltoluene	ND		2.0		ug/L			08/23/24 16:16	2
4-Methyl-2-pentanone	ND		20		ug/L			08/23/24 16:16	2
Acetone	ND		20		ug/L			08/23/24 16:16	2
Benzene	**130**		2.0		ug/L			08/23/24 16:16	2
Bromobenzene	ND		2.0		ug/L			08/23/24 16:16	2
Bromodichloromethane	ND		2.0		ug/L			08/23/24 16:16	2
Dibromochloromethane	ND		2.0		ug/L			08/23/24 16:16	2
Bromoform	ND		2.0		ug/L			08/23/24 16:16	2
Bromomethane	ND		6.0		ug/L			08/23/24 16:16	2
Carbon disulfide	ND		20		ug/L			08/23/24 16:16	2
Carbon tetrachloride	ND		2.0		ug/L			08/23/24 16:16	2
Chlorobenzene	ND		2.0		ug/L			08/23/24 16:16	2
Chloroethane	ND		4.0		ug/L			08/23/24 16:16	2
Chloroform	ND		2.0		ug/L			08/23/24 16:16	2
Chloromethane	ND		6.0		ug/L			08/23/24 16:16	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			08/23/24 16:16	2
cis-1,3-Dichloropropene	ND		2.0		ug/L			08/23/24 16:16	2
Dibromomethane	ND		2.0		ug/L			08/23/24 16:16	2
Dichlorodifluoromethane	ND		2.0		ug/L			08/23/24 16:16	2
Ethylbenzene	ND		2.0		ug/L			08/23/24 16:16	2
Hexachlorobutadiene	ND		2.0		ug/L			08/23/24 16:16	2
Isopropylbenzene	ND		2.0		ug/L			08/23/24 16:16	2

Client Sample ID: FY Raw

Date Collected: 08/14/24 16:32
Date Received: 08/15/24 14:09

Lab Sample ID: 885-10044-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0		ug/L			08/23/24 16:16	2
Methylene Chloride	ND		6.0		ug/L			08/23/24 16:16	2
n-Butylbenzene	ND		6.0		ug/L			08/23/24 16:16	2
N-Propylbenzene	ND		2.0		ug/L			08/23/24 16:16	2
Naphthalene	ND		4.0		ug/L			08/23/24 16:16	2
sec-Butylbenzene	ND		2.0		ug/L			08/23/24 16:16	2
Styrene	ND		2.0		ug/L			08/23/24 16:16	2
tert-Butylbenzene	ND		2.0		ug/L			08/23/24 16:16	2
Tetrachloroethene (PCE)	ND		2.0		ug/L			08/23/24 16:16	2
Toluene	ND		2.0		ug/L			08/23/24 16:16	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			08/23/24 16:16	2
trans-1,3-Dichloropropene	ND		2.0		ug/L			08/23/24 16:16	2
Trichloroethene (TCE)	ND		2.0		ug/L			08/23/24 16:16	2
Trichlorofluoromethane	ND		2.0		ug/L			08/23/24 16:16	2
Vinyl chloride	ND		2.0		ug/L			08/23/24 16:16	2
Xylenes, Total	**19**		3.0		ug/L			08/23/24 16:16	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*08/23/24 16:16*	*2*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/23/24 16:16*	*2*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*08/23/24 16:16*	*2*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/23/24 16:16*	*2*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**1.1**		0.050		mg/L			08/21/24 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*15 - 270*		*08/21/24 20:41*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.71**	**E H**	0.0095		ug/L		09/03/24 12:49	09/07/24 05:40	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		08/19/24 09:23	08/19/24 21:10	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		08/19/24 09:23	08/19/24 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*46 - 159*	*08/19/24 09:23*	*08/19/24 21:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69**		10		mg/L			08/17/24 02:06	20
Sulfate	**47**		0.50		mg/L			08/17/24 01:27	1
Nitrate Nitrite as N	**1.3**		1.0		mg/L			08/17/24 11:42	5

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**480**		50		mg/L			08/20/24 13:06	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10044-1

Client Sample ID: FY OX Eff

Date Collected: 08/14/24 17:15
Date Received: 08/15/24 14:09
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-10044-3

Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	38		5.0		ug/L			08/22/24 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*15 - 412*		*08/22/24 15:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.5		0.10		ug/L			08/22/24 15:53	1
Ethylbenzene	0.43		0.10		ug/L			08/22/24 15:53	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			08/22/24 15:53	1
Toluene	3.0		0.10		ug/L			08/22/24 15:53	1
Xylenes, Total	2.3		0.20		ug/L			08/22/24 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*08/22/24 15:53*	*1*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10044-1

Client Sample ID: FY Comb Inf

Date Collected: 08/14/24 17:10
Date Received: 08/15/24 14:09
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-10044-4

Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	4700		250		ug/L			08/22/24 16:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 412*		*08/22/24 16:17*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	38		5.0		ug/L			08/22/24 16:17	50
Ethylbenzene	16		5.0		ug/L			08/22/24 16:17	50
Methyl-tert-butyl Ether (MTBE)	ND		13		ug/L			08/22/24 16:17	50
Toluene	160		5.0		ug/L			08/22/24 16:17	50
Xylenes, Total	77		10		ug/L			08/22/24 16:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*08/22/24 16:17*	*50*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10044-1

Client Sample ID: Trip Blank

Date Collected: 08/14/24 00:00
Date Received: 08/15/24 14:09

Lab Sample ID: 885-10044-5

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/23/24 16:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/23/24 16:41	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			08/23/24 16:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/23/24 16:41	1
1,1-Dichloroethane	ND		1.0		ug/L			08/23/24 16:41	1
1,1-Dichloroethene	ND		1.0		ug/L			08/23/24 16:41	1
1,1-Dichloropropene	ND		1.0		ug/L			08/23/24 16:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/23/24 16:41	1
1,2,3-Trichloropropane	ND		2.0		ug/L			08/23/24 16:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/23/24 16:41	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/23/24 16:41	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/23/24 16:41	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/23/24 16:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/23/24 16:41	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			08/23/24 16:41	1
1,2-Dichloropropane	ND		1.0		ug/L			08/23/24 16:41	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/23/24 16:41	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/23/24 16:41	1
1,3-Dichloropropane	ND		1.0		ug/L			08/23/24 16:41	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/23/24 16:41	1
1-Methylnaphthalene	ND		4.0		ug/L			08/23/24 16:41	1
2,2-Dichloropropane	ND		2.0		ug/L			08/23/24 16:41	1
2-Butanone	ND		10		ug/L			08/23/24 16:41	1
2-Chlorotoluene	ND		1.0		ug/L			08/23/24 16:41	1
2-Hexanone	ND		10		ug/L			08/23/24 16:41	1
2-Methylnaphthalene	ND		4.0		ug/L			08/23/24 16:41	1
4-Chlorotoluene	ND		1.0		ug/L			08/23/24 16:41	1
4-Isopropyltoluene	ND		1.0		ug/L			08/23/24 16:41	1
4-Methyl-2-pentanone	ND		10		ug/L			08/23/24 16:41	1
Acetone	ND		10		ug/L			08/23/24 16:41	1
Benzene	ND		1.0		ug/L			08/23/24 16:41	1
Bromobenzene	ND		1.0		ug/L			08/23/24 16:41	1
Bromodichloromethane	ND		1.0		ug/L			08/23/24 16:41	1
Dibromochloromethane	ND		1.0		ug/L			08/23/24 16:41	1
Bromoform	ND		1.0		ug/L			08/23/24 16:41	1
Bromomethane	ND		3.0		ug/L			08/23/24 16:41	1
Carbon disulfide	ND		10		ug/L			08/23/24 16:41	1
Carbon tetrachloride	ND		1.0		ug/L			08/23/24 16:41	1
Chlorobenzene	ND		1.0		ug/L			08/23/24 16:41	1
Chloroethane	ND		2.0		ug/L			08/23/24 16:41	1
Chloroform	ND		1.0		ug/L			08/23/24 16:41	1
Chloromethane	ND		3.0		ug/L			08/23/24 16:41	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/23/24 16:41	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/23/24 16:41	1
Dibromomethane	ND		1.0		ug/L			08/23/24 16:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/24 16:41	1
Ethylbenzene	ND		1.0		ug/L			08/23/24 16:41	1
Hexachlorobutadiene	ND		1.0		ug/L			08/23/24 16:41	1
Isopropylbenzene	ND		1.0		ug/L			08/23/24 16:41	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10044-1

Client Sample ID: Trip Blank

Date Collected: 08/14/24 00:00
Date Received: 08/15/24 14:09

Lab Sample ID: 885-10044-5

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			08/23/24 16:41	1
Methylene Chloride	ND		3.0		ug/L			08/23/24 16:41	1
n-Butylbenzene	ND		3.0		ug/L			08/23/24 16:41	1
N-Propylbenzene	ND		1.0		ug/L			08/23/24 16:41	1
Naphthalene	ND		2.0		ug/L			08/23/24 16:41	1
sec-Butylbenzene	ND		1.0		ug/L			08/23/24 16:41	1
Styrene	ND		1.0		ug/L			08/23/24 16:41	1
tert-Butylbenzene	ND		1.0		ug/L			08/23/24 16:41	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			08/23/24 16:41	1
Toluene	ND		1.0		ug/L			08/23/24 16:41	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/23/24 16:41	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/23/24 16:41	1
Trichloroethene (TCE)	ND		1.0		ug/L			08/23/24 16:41	1
Trichlorofluoromethane	ND		1.0		ug/L			08/23/24 16:41	1
Vinyl chloride	ND		1.0		ug/L			08/23/24 16:41	1
Xylenes, Total	ND		1.5		ug/L			08/23/24 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*08/23/24 16:41*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*08/23/24 16:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/23/24 16:41*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*08/23/24 16:41*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.10		ug/L		08/20/24 10:45	08/31/24 22:41	1

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

Lab Sample ID: MB 885-10872/5
Matrix: Water
Analysis Batch: 10872

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/23/24 15:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/23/24 15:03	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			08/23/24 15:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/23/24 15:03	1
1,1-Dichloroethane	ND		1.0		ug/L			08/23/24 15:03	1
1,1-Dichloroethene	ND		1.0		ug/L			08/23/24 15:03	1
1,1-Dichloropropene	ND		1.0		ug/L			08/23/24 15:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/23/24 15:03	1
1,2,3-Trichloropropane	ND		2.0		ug/L			08/23/24 15:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/23/24 15:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/23/24 15:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/23/24 15:03	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/23/24 15:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/23/24 15:03	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			08/23/24 15:03	1
1,2-Dichloropropane	ND		1.0		ug/L			08/23/24 15:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/23/24 15:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/23/24 15:03	1
1,3-Dichloropropane	ND		1.0		ug/L			08/23/24 15:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/23/24 15:03	1
1-Methylnaphthalene	ND		4.0		ug/L			08/23/24 15:03	1
2,2-Dichloropropane	ND		2.0		ug/L			08/23/24 15:03	1
2-Butanone	ND		10		ug/L			08/23/24 15:03	1
2-Chlorotoluene	ND		1.0		ug/L			08/23/24 15:03	1
2-Hexanone	ND		10		ug/L			08/23/24 15:03	1
2-Methylnaphthalene	ND		4.0		ug/L			08/23/24 15:03	1
4-Chlorotoluene	ND		1.0		ug/L			08/23/24 15:03	1
4-Isopropyltoluene	ND		1.0		ug/L			08/23/24 15:03	1
4-Methyl-2-pentanone	ND		10		ug/L			08/23/24 15:03	1
Acetone	ND		10		ug/L			08/23/24 15:03	1
Benzene	ND		1.0		ug/L			08/23/24 15:03	1
Bromobenzene	ND		1.0		ug/L			08/23/24 15:03	1
Bromodichloromethane	ND		1.0		ug/L			08/23/24 15:03	1
Dibromochloromethane	ND		1.0		ug/L			08/23/24 15:03	1
Bromoform	ND		1.0		ug/L			08/23/24 15:03	1
Bromomethane	ND		3.0		ug/L			08/23/24 15:03	1
Carbon disulfide	ND		10		ug/L			08/23/24 15:03	1
Carbon tetrachloride	ND		1.0		ug/L			08/23/24 15:03	1
Chlorobenzene	ND		1.0		ug/L			08/23/24 15:03	1
Chloroethane	ND		2.0		ug/L			08/23/24 15:03	1
Chloroform	ND		1.0		ug/L			08/23/24 15:03	1
Chloromethane	ND		3.0		ug/L			08/23/24 15:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/23/24 15:03	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/23/24 15:03	1
Dibromomethane	ND		1.0		ug/L			08/23/24 15:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/24 15:03	1
Ethylbenzene	ND		1.0		ug/L			08/23/24 15:03	1
Hexachlorobutadiene	ND		1.0		ug/L			08/23/24 15:03	1

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

Lab Sample ID: MB 885-10872/5
Matrix: Water
Analysis Batch: 10872

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			08/23/24 15:03	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			08/23/24 15:03	1
Methylene Chloride	ND		3.0		ug/L			08/23/24 15:03	1
n-Butylbenzene	ND		3.0		ug/L			08/23/24 15:03	1
N-Propylbenzene	ND		1.0		ug/L			08/23/24 15:03	1
Naphthalene	ND		2.0		ug/L			08/23/24 15:03	1
sec-Butylbenzene	ND		1.0		ug/L			08/23/24 15:03	1
Styrene	ND		1.0		ug/L			08/23/24 15:03	1
tert-Butylbenzene	ND		1.0		ug/L			08/23/24 15:03	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			08/23/24 15:03	1
Toluene	ND		1.0		ug/L			08/23/24 15:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/23/24 15:03	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/23/24 15:03	1
Trichloroethene (TCE)	ND		1.0		ug/L			08/23/24 15:03	1
Trichlorofluoromethane	ND		1.0		ug/L			08/23/24 15:03	1
Vinyl chloride	ND		1.0		ug/L			08/23/24 15:03	1
Xylenes, Total	ND		1.5		ug/L			08/23/24 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*08/23/24 15:03*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*08/23/24 15:03*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/23/24 15:03*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/23/24 15:03*	*1*

Lab Sample ID: LCS 885-10872/4
Matrix: Water
Analysis Batch: 10872

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	20.5		ug/L		102	70 - 130		
Benzene			20.1	21.9		ug/L		109	70 - 130		
Chlorobenzene			20.1	19.7		ug/L		98	70 - 130		
Toluene			20.2	19.5		ug/L		97	70 - 130		
Trichloroethene (TCE)			20.2	21.1		ug/L		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-10783/21
Matrix: Water
Analysis Batch: 10783

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L			08/21/24 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 270*		*08/21/24 13:25*	*1*

Lab Sample ID: LCS 885-10783/20
Matrix: Water
Analysis Batch: 10783

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			0.500	0.487		mg/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*197*		*15 - 270*

Lab Sample ID: MB 885-10862/11
Matrix: Air
Analysis Batch: 10862

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L			08/22/24 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 412*		*08/22/24 11:57*	*1*

Lab Sample ID: LCS 885-10862/10
Matrix: Air
Analysis Batch: 10862

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			50.0	48.9		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*196*		*15 - 412*

Lab Sample ID: MB 885-10865/5
Matrix: Water
Analysis Batch: 10865

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L			08/22/24 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 270*		*08/22/24 11:57*	*1*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 885-10865/4
Matrix: Water
Analysis Batch: 10865

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			0.500	0.489		mg/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*196*		*15 - 270*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-10863/9
Matrix: Air
Analysis Batch: 10863

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10		ug/L			08/22/24 11:57	1
Ethylbenzene	ND		0.10		ug/L			08/22/24 11:57	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			08/22/24 11:57	1
Toluene	ND		0.10		ug/L			08/22/24 11:57	1
Xylenes, Total	ND		0.20		ug/L			08/22/24 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*08/22/24 11:57*	*1*

Lab Sample ID: LCS 885-10863/8
Matrix: Air
Analysis Batch: 10863

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.00	1.81		ug/L		91	70 - 130		
Ethylbenzene			2.00	1.64		ug/L		82	70 - 130		
m&p-Xylene			4.00	3.31		ug/L		83	70 - 130		
Methyl-tert-butyl Ether (MTBE)			2.00	1.63		ug/L		82	70 - 130		
o-Xylene			2.00	1.61		ug/L		80	70 - 130		
Toluene			2.00	1.69		ug/L		85	70 - 130		
Xylenes, Total			6.00	4.91		ug/L		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MRL 885-10382/1-A
Matrix: Water
Analysis Batch: 11453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10382

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.0100	ND		ug/L		100	60 - 140		

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 885-10593/3-A
Matrix: Water
Analysis Batch: 11453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10593

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.10		ug/L		08/20/24 10:45	08/31/24 20:40	1

Lab Sample ID: MRL 885-11101/1-A
Matrix: Water
Analysis Batch: 11453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11101

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.0100	ND		ug/L		90	60 - 140		

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-10497/1-A
Matrix: Water
Analysis Batch: 10540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10497

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		08/19/24 09:23	08/19/24 17:05	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		08/19/24 09:23	08/19/24 17:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*117*		*46 - 159*	*08/19/24 09:23*	*08/19/24 17:05*	*1*

Lab Sample ID: LCS 885-10497/2-A
Matrix: Water
Analysis Batch: 10540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10497

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			2.50	2.91		mg/L		116	57 - 147		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*102*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-10451/20
Matrix: Water
Analysis Batch: 10451

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			08/16/24 18:10	1
Sulfate	ND		0.50		mg/L			08/16/24 18:10	1

Lab Sample ID: LCS 885-10451/21
Matrix: Water
Analysis Batch: 10451

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.68		mg/L		94	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-10451/21
Matrix: Water
Analysis Batch: 10451

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	9.16		mg/L		92	90 - 110

Lab Sample ID: MRL 885-10451/19
Matrix: Water
Analysis Batch: 10451

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.523		mg/L		105	50 - 150
Sulfate	0.500	0.506		mg/L		101	50 - 150

Lab Sample ID: MB 885-10478/20
Matrix: Water
Analysis Batch: 10478

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			08/16/24 18:10	1

Lab Sample ID: LCS 885-10478/21
Matrix: Water
Analysis Batch: 10478

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.48		mg/L		99	90 - 110

Lab Sample ID: MRL 885-10478/19
Matrix: Water
Analysis Batch: 10478

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.0963	J	mg/L		96	50 - 150
Nitrite as N	0.0999	0.0859	J	mg/L		86	50 - 150

Lab Sample ID: MB 885-10688/4
Matrix: Water
Analysis Batch: 10688

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			08/17/24 11:05	1

Lab Sample ID: LCS 885-10688/5
Matrix: Water
Analysis Batch: 10688

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.42		mg/L		97	90 - 110
Nitrite as N	1.00	0.919		mg/L		92	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-10688/3
Matrix: Water
Analysis Batch: 10688

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.100	0.0867	J	mg/L		87	50 - 150		
Nitrite as N			0.0999	0.105		mg/L		105	50 - 150		

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-10626/1
Matrix: Water
Analysis Batch: 10626

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50		mg/L			08/20/24 13:06	1

Lab Sample ID: LCS 885-10626/2
Matrix: Water
Analysis Batch: 10626

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1010		mg/L		101	80 - 120		

Lab Sample ID: 885-10044-1 DU
Matrix: Water
Analysis Batch: 10626

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	480			476		mg/L				1	10

GC/MS VOA

Analysis Batch: 10872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-1	FY Treated Eff	Total/NA	Water	8260B	
885-10044-2	FY Raw	Total/NA	Water	8260B	
885-10044-5	Trip Blank	Total/NA	Water	8260B	
MB 885-10872/5	Method Blank	Total/NA	Water	8260B	
LCS 885-10872/4	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 10783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-10783/21	Method Blank	Total/NA	Water	8015M/D	
LCS 885-10783/20	Lab Control Sample	Total/NA	Water	8015M/D	

Analysis Batch: 10862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-3	FY OX Eff	Total/NA	Air	8015M/D	
885-10044-4	FY Comb Inf	Total/NA	Air	8015M/D	
MB 885-10862/11	Method Blank	Total/NA	Air	8015M/D	
LCS 885-10862/10	Lab Control Sample	Total/NA	Air	8015M/D	

Analysis Batch: 10863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-3	FY OX Eff	Total/NA	Air	8021B	
885-10044-4	FY Comb Inf	Total/NA	Air	8021B	
MB 885-10863/9	Method Blank	Total/NA	Air	8021B	
LCS 885-10863/8	Lab Control Sample	Total/NA	Air	8021B	

Analysis Batch: 10865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-1	FY Treated Eff	Total/NA	Water	8015M/D	
MB 885-10865/5	Method Blank	Total/NA	Water	8015M/D	
LCS 885-10865/4	Lab Control Sample	Total/NA	Water	8015M/D	

GC Semi VOA

Prep Batch: 10382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 885-10382/1-A	Lab Control Sample	Total/NA	Water	8011	

Prep Batch: 10497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-1	FY Treated Eff	Total/NA	Water	3511	
885-10044-2	FY Raw	Total/NA	Water	3511	
MB 885-10497/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-10497/2-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 10540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-1	FY Treated Eff	Total/NA	Water	8015M/D	10497
885-10044-2	FY Raw	Total/NA	Water	8015M/D	10497
MB 885-10497/1-A	Method Blank	Total/NA	Water	8015M/D	10497

GC Semi VOA (Continued)

Analysis Batch: 10540 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-10497/2-A	Lab Control Sample	Total/NA	Water	8015M/D	10497

Prep Batch: 10593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-1	FY Treated Eff	Total/NA	Water	8011	
885-10044-5	Trip Blank	Total/NA	Water	8011	
MB 885-10593/3-A	Method Blank	Total/NA	Water	8011	

Prep Batch: 11101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 885-11101/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 11453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-1	FY Treated Eff	Total/NA	Water	8011	10593
885-10044-5	Trip Blank	Total/NA	Water	8011	10593
MB 885-10593/3-A	Method Blank	Total/NA	Water	8011	10593
MRL 885-10382/1-A	Lab Control Sample	Total/NA	Water	8011	10382
MRL 885-11101/1-A	Lab Control Sample	Total/NA	Water	8011	11101

Prep Batch: 11516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-2	FY Raw	Total/NA	Water	8011	

Analysis Batch: 11773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-2	FY Raw	Total/NA	Water	8011	11516

HPLC/IC

Analysis Batch: 10451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-1	FY Treated Eff	Total/NA	Water	300.0	
885-10044-1	FY Treated Eff	Total/NA	Water	300.0	
885-10044-2	FY Raw	Total/NA	Water	300.0	
885-10044-2	FY Raw	Total/NA	Water	300.0	
MB 885-10451/20	Method Blank	Total/NA	Water	300.0	
LCS 885-10451/21	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-10451/19	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 10478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-10478/20	Method Blank	Total/NA	Water	300.0	
LCS 885-10478/21	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-10478/19	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 10688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-1	FY Treated Eff	Total/NA	Water	300.0	
885-10044-2	FY Raw	Total/NA	Water	300.0	
MB 885-10688/4	Method Blank	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 10688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-10688/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-10688/3	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 10626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10044-1	FY Treated Eff	Total/NA	Water	2540C	
885-10044-2	FY Raw	Total/NA	Water	2540C	
MB 885-10626/1	Method Blank	Total/NA	Water	2540C	
LCS 885-10626/2	Lab Control Sample	Total/NA	Water	2540C	
885-10044-1 DU	FY Treated Eff	Total/NA	Water	2540C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10044-1

Client Sample ID: FY Treated Eff

Lab Sample ID: 885-10044-1
Matrix: Water
Date Collected: 08/14/24 16:48
Date Received: 08/15/24 14:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	10872	RA	EET ALB	08/23/24 15:52
Total/NA	Analysis	8015M/D		1	10865	JP	EET ALB	08/22/24 12:20
Total/NA	Prep	8011			10593	DH	EET ALB	08/20/24 10:45
Total/NA	Analysis	8011		1	11453	MB	EET ALB	08/31/24 22:07
Total/NA	Prep	3511			10497	KR	EET ALB	08/19/24 09:23
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/19/24 20:46
Total/NA	Analysis	300.0		1	10451	RC	EET ALB	08/17/24 01:01
Total/NA	Analysis	300.0		20	10451	RC	EET ALB	08/17/24 01:14
Total/NA	Analysis	300.0		5	10688	JT	EET ALB	08/17/24 11:29
Total/NA	Analysis	2540C		1	10626	ES	EET ALB	08/20/24 13:06

Client Sample ID: FY Raw

Lab Sample ID: 885-10044-2
Matrix: Water
Date Collected: 08/14/24 16:32
Date Received: 08/15/24 14:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	10872	RA	EET ALB	08/23/24 16:16
Total/NA	Analysis	8015M/D		1	10783	JP	EET ALB	08/21/24 20:41
Total/NA	Prep	8011			11516	DH	EET ALB	09/03/24 12:49
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 05:40
Total/NA	Prep	3511			10497	KR	EET ALB	08/19/24 09:23
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/19/24 21:10
Total/NA	Analysis	300.0		1	10451	RC	EET ALB	08/17/24 01:27
Total/NA	Analysis	300.0		20	10451	RC	EET ALB	08/17/24 02:06
Total/NA	Analysis	300.0		5	10688	JT	EET ALB	08/17/24 11:42
Total/NA	Analysis	2540C		1	10626	ES	EET ALB	08/20/24 13:06

Client Sample ID: FY OX Eff

Lab Sample ID: 885-10044-3
Matrix: Air
Date Collected: 08/14/24 17:15
Date Received: 08/15/24 14:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	10862	JP	EET ALB	08/22/24 15:53
Total/NA	Analysis	8021B		1	10863	JP	EET ALB	08/22/24 15:53

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-10044-4
Matrix: Air
Date Collected: 08/14/24 17:10
Date Received: 08/15/24 14:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	10862	JP	EET ALB	08/22/24 16:17
Total/NA	Analysis	8021B		50	10863	JP	EET ALB	08/22/24 16:17

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10044-1

Client Sample ID: Trip Blank

Date Collected: 08/14/24 00:00
Date Received: 08/15/24 14:09

Lab Sample ID: 885-10044-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	10872	RA	EET ALB	08/23/24 16:41
Total/NA	Prep	8011			10593	DH	EET ALB	08/20/24 10:45
Total/NA	Analysis	8011		1	11453	MB	EET ALB	08/31/24 22:41

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10044-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Chain-of-Custody Record

Client: **Daniel B Stephens & Associates**

Mailing Address: **6020 Academy Rd NE, STE 100**

Albuquerque, NM 87109

Phone #: **505-822-9400**

email or Fax#: **gherrmann@geo-logic.com**

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: ☒ Standard ☐ Rush

Project Name: **Former Y Station State Lead Site**

Project #: **DB18.1157**

Project Manager: **Grace Herrmann**

Sampler: Alex Nuñez-Thompson

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): See Remarks

HALL ENVIRONMENTAL ANALYSIS LABORAT

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-10044 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
8/14	1648	H_2O	FY Treated Eff	7-40ml, 2-plastic, 1-Amber	HCl, ThiO, H_2SO_4	1	X	X	X	X	X	X		
8/14	1632	H_2O	FY Raw	7-40ml, 2-plastic, 1-Amber	HCl, ThiO, H_2SO_4	2	X	X	X	X	X	X		
8/14	1715	Air	FY OX Eff	1-Tedlar	None	3							X	X
8/14	1710	Air	FY Comb Inf	1-Tedlar	None	4							X	X
			Trip Blank - TMB 8/16/24			5								

Date: 8/15/24 Time: 1409 Relinquished by:

Received by: Via: Date: 8-15-24 Time: 1409

Date: Time: Relinquished by:

Received by: Via: Date: Time:

Remarks:

14.8 + 0.3 = 15.1°C

10.0 + 0.3 = 10.3°C

SB 8-15-24 MOSO

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-10044-1

Login Number: 10044
List Number: 1
Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

Question	Answer	Comment
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)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 9/20/2024 2:45:16 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-10661-1

Eurofins Albuquerque

Job Notes

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

Authorization



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Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10661-1
Project/Site: Former Y Station State Lead Site

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
885-10661-1

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 8/27/2024 12:00 PM. 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 0.1°C.

Receipt Exceptions
Tedlar recieved with slow leak, undetected untill sample was pulled for analysis and no longer had enough volume . : FY Comb Inf (885-10661-4).

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

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

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

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

GC Semi VOA
Method 8011: The following sample will be reported with analytes out of range due to instrument downtime during the remainder of the hold time: FY Raw (885-10661-2)

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

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

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

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10661-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-10661-1
Date Collected: 08/26/24 10:03
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/03/24 12:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/03/24 12:08	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/03/24 12:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/03/24 12:08	1
1,1-Dichloroethane	ND		1.0		ug/L			09/03/24 12:08	1
1,1-Dichloroethene	ND		1.0		ug/L			09/03/24 12:08	1
1,1-Dichloropropene	ND		1.0		ug/L			09/03/24 12:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/03/24 12:08	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/03/24 12:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/03/24 12:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/03/24 12:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/03/24 12:08	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/03/24 12:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/03/24 12:08	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/03/24 12:08	1
1,2-Dichloropropane	ND		1.0		ug/L			09/03/24 12:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/03/24 12:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/03/24 12:08	1
1,3-Dichloropropane	ND		1.0		ug/L			09/03/24 12:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/03/24 12:08	1
1-Methylnaphthalene	ND		4.0		ug/L			09/03/24 12:08	1
2,2-Dichloropropane	ND		2.0		ug/L			09/03/24 12:08	1
2-Butanone	ND		10		ug/L			09/03/24 12:08	1
2-Chlorotoluene	ND		1.0		ug/L			09/03/24 12:08	1
2-Hexanone	ND		10		ug/L			09/03/24 12:08	1
2-Methylnaphthalene	ND		4.0		ug/L			09/03/24 12:08	1
4-Chlorotoluene	ND		1.0		ug/L			09/03/24 12:08	1
4-Isopropyltoluene	ND		1.0		ug/L			09/03/24 12:08	1
4-Methyl-2-pentanone	ND		10		ug/L			09/03/24 12:08	1
Acetone	ND		10		ug/L			09/03/24 12:08	1
Benzene	ND		1.0		ug/L			09/03/24 12:08	1
Bromobenzene	ND		1.0		ug/L			09/03/24 12:08	1
Bromodichloromethane	ND		1.0		ug/L			09/03/24 12:08	1
Dibromochloromethane	ND		1.0		ug/L			09/03/24 12:08	1
Bromoform	ND		1.0		ug/L			09/03/24 12:08	1
Bromomethane	ND		3.0		ug/L			09/03/24 12:08	1
Carbon disulfide	ND		10		ug/L			09/03/24 12:08	1
Carbon tetrachloride	ND		1.0		ug/L			09/03/24 12:08	1
Chlorobenzene	ND		1.0		ug/L			09/03/24 12:08	1
Chloroethane	ND		2.0		ug/L			09/03/24 12:08	1
Chloroform	ND		1.0		ug/L			09/03/24 12:08	1
Chloromethane	ND		3.0		ug/L			09/03/24 12:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/03/24 12:08	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/03/24 12:08	1
Dibromomethane	ND		1.0		ug/L			09/03/24 12:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/03/24 12:08	1
Ethylbenzene	ND		1.0		ug/L			09/03/24 12:08	1
Hexachlorobutadiene	ND		1.0		ug/L			09/03/24 12:08	1
Isopropylbenzene	ND		1.0		ug/L			09/03/24 12:08	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10661-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-10661-1
Date Collected: 08/26/24 10:03
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/03/24 12:08	1
Methylene Chloride	ND		3.0		ug/L			09/03/24 12:08	1
n-Butylbenzene	ND		3.0		ug/L			09/03/24 12:08	1
N-Propylbenzene	ND		1.0		ug/L			09/03/24 12:08	1
Naphthalene	ND		2.0		ug/L			09/03/24 12:08	1
sec-Butylbenzene	ND		1.0		ug/L			09/03/24 12:08	1
Styrene	ND		1.0		ug/L			09/03/24 12:08	1
tert-Butylbenzene	ND		1.0		ug/L			09/03/24 12:08	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/03/24 12:08	1
Toluene	ND		1.0		ug/L			09/03/24 12:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/03/24 12:08	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/03/24 12:08	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/03/24 12:08	1
Trichlorofluoromethane	ND		1.0		ug/L			09/03/24 12:08	1
Vinyl chloride	ND		1.0		ug/L			09/03/24 12:08	1
Xylenes, Total	ND		1.5		ug/L			09/03/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*09/03/24 12:08*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*09/03/24 12:08*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*09/03/24 12:08*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*09/03/24 12:08*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L			08/29/24 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 270*		*08/29/24 18:48*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0093		ug/L		09/04/24 11:39	09/07/24 12:48	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		08/30/24 13:05	08/30/24 15:02	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		08/30/24 13:05	08/30/24 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*120*		*46 - 159*	*08/30/24 13:05*	*08/30/24 15:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83**		10		mg/L			08/27/24 21:40	20
Nitrate as N	**1.5**		0.10		mg/L			08/27/24 21:28	1
Sulfate	**45**		10		mg/L			08/27/24 21:40	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**470**		50		mg/L			08/29/24 15:56	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10661-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Raw
Lab Sample ID: 885-10661-2
Date Collected: 08/26/24 10:40
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			09/03/24 12:33	5
1,1,1-Trichloroethane	ND		5.0		ug/L			09/03/24 12:33	5
1,1,2,2-Tetrachloroethane	ND		10		ug/L			09/03/24 12:33	5
1,1,2-Trichloroethane	ND		5.0		ug/L			09/03/24 12:33	5
1,1-Dichloroethane	ND		5.0		ug/L			09/03/24 12:33	5
1,1-Dichloroethene	ND		5.0		ug/L			09/03/24 12:33	5
1,1-Dichloropropene	ND		5.0		ug/L			09/03/24 12:33	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			09/03/24 12:33	5
1,2,3-Trichloropropane	ND		10		ug/L			09/03/24 12:33	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			09/03/24 12:33	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			09/03/24 12:33	5
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/03/24 12:33	5
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			09/03/24 12:33	5
1,2-Dichlorobenzene	ND		5.0		ug/L			09/03/24 12:33	5
1,2-Dichloroethane (EDC)	**130**		5.0		ug/L			09/03/24 12:33	5
1,2-Dichloropropane	ND		5.0		ug/L			09/03/24 12:33	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			09/03/24 12:33	5
1,3-Dichlorobenzene	ND		5.0		ug/L			09/03/24 12:33	5
1,3-Dichloropropane	ND		5.0		ug/L			09/03/24 12:33	5
1,4-Dichlorobenzene	ND		5.0		ug/L			09/03/24 12:33	5
1-Methylnaphthalene	ND		20		ug/L			09/03/24 12:33	5
2,2-Dichloropropane	ND		10		ug/L			09/03/24 12:33	5
2-Butanone	ND		50		ug/L			09/03/24 12:33	5
2-Chlorotoluene	ND		5.0		ug/L			09/03/24 12:33	5
2-Hexanone	ND		50		ug/L			09/03/24 12:33	5
2-Methylnaphthalene	ND		20		ug/L			09/03/24 12:33	5
4-Chlorotoluene	ND		5.0		ug/L			09/03/24 12:33	5
4-Isopropyltoluene	ND		5.0		ug/L			09/03/24 12:33	5
4-Methyl-2-pentanone	ND		50		ug/L			09/03/24 12:33	5
Acetone	ND		50		ug/L			09/03/24 12:33	5
Benzene	ND		5.0		ug/L			09/03/24 12:33	5
Bromobenzene	ND		5.0		ug/L			09/03/24 12:33	5
Bromodichloromethane	ND		5.0		ug/L			09/03/24 12:33	5
Dibromochloromethane	ND		5.0		ug/L			09/03/24 12:33	5
Bromoform	ND		5.0		ug/L			09/03/24 12:33	5
Bromomethane	ND		15		ug/L			09/03/24 12:33	5
Carbon disulfide	ND		50		ug/L			09/03/24 12:33	5
Carbon tetrachloride	ND		5.0		ug/L			09/03/24 12:33	5
Chlorobenzene	ND		5.0		ug/L			09/03/24 12:33	5
Chloroethane	ND		10		ug/L			09/03/24 12:33	5
Chloroform	ND		5.0		ug/L			09/03/24 12:33	5
Chloromethane	ND		15		ug/L			09/03/24 12:33	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			09/03/24 12:33	5
cis-1,3-Dichloropropene	ND		5.0		ug/L			09/03/24 12:33	5
Dibromomethane	ND		5.0		ug/L			09/03/24 12:33	5
Dichlorodifluoromethane	ND		5.0		ug/L			09/03/24 12:33	5
Ethylbenzene	ND		5.0		ug/L			09/03/24 12:33	5
Hexachlorobutadiene	ND		5.0		ug/L			09/03/24 12:33	5
Isopropylbenzene	ND		5.0		ug/L			09/03/24 12:33	5

Client Sample ID: FY Raw
Lab Sample ID: 885-10661-2
Date Collected: 08/26/24 10:40
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			09/03/24 12:33	5
Methylene Chloride	ND		15		ug/L			09/03/24 12:33	5
n-Butylbenzene	ND		15		ug/L			09/03/24 12:33	5
N-Propylbenzene	ND		5.0		ug/L			09/03/24 12:33	5
Naphthalene	ND		10		ug/L			09/03/24 12:33	5
sec-Butylbenzene	ND		5.0		ug/L			09/03/24 12:33	5
Styrene	ND		5.0		ug/L			09/03/24 12:33	5
tert-Butylbenzene	ND		5.0		ug/L			09/03/24 12:33	5
Tetrachloroethene (PCE)	ND		5.0		ug/L			09/03/24 12:33	5
Toluene	ND		5.0		ug/L			09/03/24 12:33	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			09/03/24 12:33	5
trans-1,3-Dichloropropene	ND		5.0		ug/L			09/03/24 12:33	5
Trichloroethene (TCE)	ND		5.0		ug/L			09/03/24 12:33	5
Trichlorofluoromethane	ND		5.0		ug/L			09/03/24 12:33	5
Vinyl chloride	ND		5.0		ug/L			09/03/24 12:33	5
Xylenes, Total	ND		7.5		ug/L			09/03/24 12:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/03/24 12:33*	*5*
Toluene-d8 (Surr)	*92*		*70 - 130*		*09/03/24 12:33*	*5*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*09/03/24 12:33*	*5*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*09/03/24 12:33*	*5*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.22**		0.050		mg/L			08/29/24 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 270*		*08/29/24 19:58*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.75**	**E**	0.0094		ug/L		09/04/24 11:39	09/07/24 13:05	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		08/30/24 13:05	08/30/24 15:15	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		08/30/24 13:05	08/30/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*131*		*46 - 159*	*08/30/24 13:05*	*08/30/24 15:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79**		10		mg/L			08/27/24 22:05	20
Nitrate as N	**1.6**		0.10		mg/L			08/27/24 21:53	1
Sulfate	**43**		10		mg/L			08/27/24 22:05	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**520**		100		mg/L			08/29/24 15:56	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10661-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY OX Eff
Lab Sample ID: 885-10661-3
Date Collected: 08/26/24 08:55
Matrix: Air
Date Received: 08/27/24 12:00
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	19		5.0		ug/L			08/27/24 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*15 - 412*		*08/27/24 15:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.1		0.10		ug/L			08/27/24 15:40	1
Ethylbenzene	0.23		0.10		ug/L			08/27/24 15:40	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			08/27/24 15:40	1
Toluene	1.4		0.10		ug/L			08/27/24 15:40	1
Xylenes, Total	1.4		0.20		ug/L			08/27/24 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*		*08/27/24 15:40*	*1*

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10661-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY DTA Eff **Lab Sample ID: 885-10661-5**
Date Collected: 08/26/24 10:25 **Matrix: Air**
Date Received: 08/27/24 12:00
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	14		5.0		ug/L			08/27/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 412*		*08/27/24 16:03*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10		ug/L			08/27/24 16:03	1
Ethylbenzene	0.23		0.10		ug/L			08/27/24 16:03	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			08/27/24 16:03	1
Toluene	0.76		0.10		ug/L			08/27/24 16:03	1
Xylenes, Total	1.6		0.20		ug/L			08/27/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*08/27/24 16:03*	*1*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10661-1

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

Lab Sample ID: MB 885-11469/4
Matrix: Water
Analysis Batch: 11469

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/03/24 11:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/03/24 11:20	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/03/24 11:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/03/24 11:20	1
1,1-Dichloroethane	ND		1.0		ug/L			09/03/24 11:20	1
1,1-Dichloroethene	ND		1.0		ug/L			09/03/24 11:20	1
1,1-Dichloropropene	ND		1.0		ug/L			09/03/24 11:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/03/24 11:20	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/03/24 11:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/03/24 11:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/03/24 11:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/03/24 11:20	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/03/24 11:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/03/24 11:20	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/03/24 11:20	1
1,2-Dichloropropane	ND		1.0		ug/L			09/03/24 11:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/03/24 11:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/03/24 11:20	1
1,3-Dichloropropane	ND		1.0		ug/L			09/03/24 11:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/03/24 11:20	1
1-Methylnaphthalene	ND		4.0		ug/L			09/03/24 11:20	1
2,2-Dichloropropane	ND		2.0		ug/L			09/03/24 11:20	1
2-Butanone	ND		10		ug/L			09/03/24 11:20	1
2-Chlorotoluene	ND		1.0		ug/L			09/03/24 11:20	1
2-Hexanone	ND		10		ug/L			09/03/24 11:20	1
2-Methylnaphthalene	ND		4.0		ug/L			09/03/24 11:20	1
4-Chlorotoluene	ND		1.0		ug/L			09/03/24 11:20	1
4-Isopropyltoluene	ND		1.0		ug/L			09/03/24 11:20	1
4-Methyl-2-pentanone	ND		10		ug/L			09/03/24 11:20	1
Acetone	ND		10		ug/L			09/03/24 11:20	1
Benzene	ND		1.0		ug/L			09/03/24 11:20	1
Bromobenzene	ND		1.0		ug/L			09/03/24 11:20	1
Bromodichloromethane	ND		1.0		ug/L			09/03/24 11:20	1
Dibromochloromethane	ND		1.0		ug/L			09/03/24 11:20	1
Bromoform	ND		1.0		ug/L			09/03/24 11:20	1
Bromomethane	ND		3.0		ug/L			09/03/24 11:20	1
Carbon disulfide	ND		10		ug/L			09/03/24 11:20	1
Carbon tetrachloride	ND		1.0		ug/L			09/03/24 11:20	1
Chlorobenzene	ND		1.0		ug/L			09/03/24 11:20	1
Chloroethane	ND		2.0		ug/L			09/03/24 11:20	1
Chloroform	ND		1.0		ug/L			09/03/24 11:20	1
Chloromethane	ND		3.0		ug/L			09/03/24 11:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/03/24 11:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/03/24 11:20	1
Dibromomethane	ND		1.0		ug/L			09/03/24 11:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/03/24 11:20	1
Ethylbenzene	ND		1.0		ug/L			09/03/24 11:20	1
Hexachlorobutadiene	ND		1.0		ug/L			09/03/24 11:20	1

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

Lab Sample ID: MB 885-11469/4
Matrix: Water
Analysis Batch: 11469

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			09/03/24 11:20	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/03/24 11:20	1
Methylene Chloride	ND		3.0		ug/L			09/03/24 11:20	1
n-Butylbenzene	ND		3.0		ug/L			09/03/24 11:20	1
N-Propylbenzene	ND		1.0		ug/L			09/03/24 11:20	1
Naphthalene	ND		2.0		ug/L			09/03/24 11:20	1
sec-Butylbenzene	ND		1.0		ug/L			09/03/24 11:20	1
Styrene	ND		1.0		ug/L			09/03/24 11:20	1
tert-Butylbenzene	ND		1.0		ug/L			09/03/24 11:20	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/03/24 11:20	1
Toluene	ND		1.0		ug/L			09/03/24 11:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/03/24 11:20	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/03/24 11:20	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/03/24 11:20	1
Trichlorofluoromethane	ND		1.0		ug/L			09/03/24 11:20	1
Vinyl chloride	ND		1.0		ug/L			09/03/24 11:20	1
Xylenes, Total	ND		1.5		ug/L			09/03/24 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/03/24 11:20*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*09/03/24 11:20*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*09/03/24 11:20*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*09/03/24 11:20*	*1*

Lab Sample ID: STOBLK 885-11469/19
Matrix: Water
Analysis Batch: 11469

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/03/24 17:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/03/24 17:27	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/03/24 17:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/03/24 17:27	1
1,1-Dichloroethane	ND		1.0		ug/L			09/03/24 17:27	1
1,1-Dichloroethene	ND		1.0		ug/L			09/03/24 17:27	1
1,1-Dichloropropene	ND		1.0		ug/L			09/03/24 17:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/03/24 17:27	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/03/24 17:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/03/24 17:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/03/24 17:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/03/24 17:27	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/03/24 17:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/03/24 17:27	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/03/24 17:27	1
1,2-Dichloropropane	ND		1.0		ug/L			09/03/24 17:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/03/24 17:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/03/24 17:27	1
1,3-Dichloropropane	ND		1.0		ug/L			09/03/24 17:27	1

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

Lab Sample ID: STOBLK 885-11469/19
Matrix: Water
Analysis Batch: 11469

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			09/03/24 17:27	1
1-Methylnaphthalene	ND		4.0		ug/L			09/03/24 17:27	1
2,2-Dichloropropane	ND		2.0		ug/L			09/03/24 17:27	1
2-Butanone	ND		10		ug/L			09/03/24 17:27	1
2-Chlorotoluene	ND		1.0		ug/L			09/03/24 17:27	1
2-Hexanone	ND		10		ug/L			09/03/24 17:27	1
2-Methylnaphthalene	ND		4.0		ug/L			09/03/24 17:27	1
4-Chlorotoluene	ND		1.0		ug/L			09/03/24 17:27	1
4-Isopropyltoluene	ND		1.0		ug/L			09/03/24 17:27	1
4-Methyl-2-pentanone	ND		10		ug/L			09/03/24 17:27	1
Acetone	ND		10		ug/L			09/03/24 17:27	1
Benzene	ND		1.0		ug/L			09/03/24 17:27	1
Bromobenzene	ND		1.0		ug/L			09/03/24 17:27	1
Bromodichloromethane	ND		1.0		ug/L			09/03/24 17:27	1
Dibromochloromethane	ND		1.0		ug/L			09/03/24 17:27	1
Bromoform	ND		1.0		ug/L			09/03/24 17:27	1
Bromomethane	ND		3.0		ug/L			09/03/24 17:27	1
Carbon disulfide	ND		10		ug/L			09/03/24 17:27	1
Carbon tetrachloride	ND		1.0		ug/L			09/03/24 17:27	1
Chlorobenzene	ND		1.0		ug/L			09/03/24 17:27	1
Chloroethane	ND		2.0		ug/L			09/03/24 17:27	1
Chloroform	ND		1.0		ug/L			09/03/24 17:27	1
Chloromethane	ND		3.0		ug/L			09/03/24 17:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/03/24 17:27	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/03/24 17:27	1
Dibromomethane	ND		1.0		ug/L			09/03/24 17:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/03/24 17:27	1
Ethylbenzene	ND		1.0		ug/L			09/03/24 17:27	1
Hexachlorobutadiene	ND		1.0		ug/L			09/03/24 17:27	1
Isopropylbenzene	ND		1.0		ug/L			09/03/24 17:27	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/03/24 17:27	1
Methylene Chloride	ND		3.0		ug/L			09/03/24 17:27	1
n-Butylbenzene	ND		3.0		ug/L			09/03/24 17:27	1
N-Propylbenzene	ND		1.0		ug/L			09/03/24 17:27	1
Naphthalene	ND		2.0		ug/L			09/03/24 17:27	1
sec-Butylbenzene	ND		1.0		ug/L			09/03/24 17:27	1
Styrene	ND		1.0		ug/L			09/03/24 17:27	1
tert-Butylbenzene	ND		1.0		ug/L			09/03/24 17:27	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/03/24 17:27	1
Toluene	ND		1.0		ug/L			09/03/24 17:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/03/24 17:27	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/03/24 17:27	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/03/24 17:27	1
Trichlorofluoromethane	ND		1.0		ug/L			09/03/24 17:27	1
Vinyl chloride	ND		1.0		ug/L			09/03/24 17:27	1
Xylenes, Total	ND		1.5		ug/L			09/03/24 17:27	1

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

Lab Sample ID: STOBLK 885-11469/19
Matrix: Water
Analysis Batch: 11469

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

Surrogate	STOBLK %Recovery	STOBLK Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		09/03/24 17:27	1
Toluene-d8 (Surr)	92		70 - 130		09/03/24 17:27	1
4-Bromofluorobenzene (Surr)	102		70 - 130		09/03/24 17:27	1
Dibromofluoromethane (Surr)	115		70 - 130		09/03/24 17:27	1

Lab Sample ID: LCS 885-11469/3
Matrix: Water
Analysis Batch: 11469

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	20.9		ug/L		104	70 - 130		
Benzene			20.1	23.0		ug/L		114	70 - 130		
Chlorobenzene			20.1	20.0		ug/L		100	70 - 130		
Toluene			20.2	19.8		ug/L		98	70 - 130		
Trichloroethene (TCE)			20.2	22.2		ug/L		110	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130

Lab Sample ID: 885-10661-1 MS
Matrix: Water
Analysis Batch: 11469

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene	ND		20.1	23.0		ug/L		114	70 - 130		
Benzene	ND		20.1	24.8		ug/L		123	70 - 130		
Chlorobenzene	ND		20.1	20.6		ug/L		103	70 - 130		
Toluene	ND		20.2	20.2		ug/L		100	70 - 130		
Trichloroethene (TCE)	ND		20.2	24.0		ug/L		118	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	111		70 - 130

Lab Sample ID: 885-10661-1 MSD
Matrix: Water
Analysis Batch: 11469

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		20.1	22.4		ug/L		111	70 - 130	3	20
Benzene	ND		20.1	24.4		ug/L		121	70 - 130	1	20
Chlorobenzene	ND		20.1	20.3		ug/L		101	70 - 130	1	20
Toluene	ND		20.2	19.9		ug/L		99	70 - 130	2	20

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

Lab Sample ID: 885-10661-1 MSD
Matrix: Water
Analysis Batch: 11469

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene (TCE)	ND		20.2	23.7		ug/L		116	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-11176/9
Matrix: Air
Analysis Batch: 11176

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L			08/27/24 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 412*		*08/27/24 13:31*	*1*

Lab Sample ID: LCS 885-11176/8
Matrix: Air
Analysis Batch: 11176

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			50.0	50.5		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*204*		*15 - 412*

Lab Sample ID: MB 885-11387/14
Matrix: Water
Analysis Batch: 11387

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L			08/29/24 12:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 270*		*08/29/24 12:33*	*1*

Lab Sample ID: LCS 885-11387/13
Matrix: Water
Analysis Batch: 11387

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			0.500	0.513		mg/L		103	70 - 130		

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 885-11387/13
Matrix: Water
Analysis Batch: 11387

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	208		15 - 270

Lab Sample ID: 885-10661-1 MS
Matrix: Water
Analysis Batch: 11387

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		0.500	0.512		mg/L		98	41 - 148		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	210		15 - 270

Lab Sample ID: 885-10661-1 MSD
Matrix: Water
Analysis Batch: 11387

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		0.500	0.506		mg/L		97	41 - 148	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	211		15 - 270

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-11177/9
Matrix: Air
Analysis Batch: 11177

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10		ug/L			08/27/24 13:31	1
Ethylbenzene	ND		0.10		ug/L			08/27/24 13:31	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			08/27/24 13:31	1
Toluene	ND		0.10		ug/L			08/27/24 13:31	1
Xylenes, Total	ND		0.20		ug/L			08/27/24 13:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130		08/27/24 13:31	1

Lab Sample ID: LCS 885-11177/8
Matrix: Air
Analysis Batch: 11177

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.00	1.76		ug/L		88	70 - 130		
Ethylbenzene			2.00	1.63		ug/L		82	70 - 130		
m&p-Xylene			4.00	3.27		ug/L		82	70 - 130		

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-11177/8
Matrix: Air
Analysis Batch: 11177

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl-tert-butyl Ether (MTBE)	2.00	1.61		ug/L		81	70 - 130
o-Xylene	2.00	1.58		ug/L		79	70 - 130
Toluene	2.00	1.67		ug/L		83	70 - 130
Xylenes, Total	6.00	4.85		ug/L		81	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-11586/3-A
Matrix: Water
Analysis Batch: 11773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11586

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	ug/L		09/04/24 11:36	09/07/24 11:39	1

Lab Sample ID: LCS 885-11586/4-A
Matrix: Water
Analysis Batch: 11773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.0885		ug/L		89	70 - 130

Lab Sample ID: LCSD 885-11586/5-A
Matrix: Water
Analysis Batch: 11773

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 11586

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.0933		ug/L		93	70 - 130	5	20

Lab Sample ID: MRL 885-11586/1-A
Matrix: Water
Analysis Batch: 11773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11586

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.00874	J	ug/L		87	60 - 140

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-11420/1-A
Matrix: Water
Analysis Batch: 11384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11420

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		08/30/24 13:05	08/30/24 14:37	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		08/30/24 13:05	08/30/24 14:37	1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-11420/1-A
Matrix: Water
Analysis Batch: 11384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11420

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	135		46 - 159	08/30/24 13:05	08/30/24 14:37	1

Lab Sample ID: LCS 885-11420/2-A
Matrix: Water
Analysis Batch: 11384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2.50	3.43		mg/L		137	57 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	129		46 - 159

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-11156/11
Matrix: Water
Analysis Batch: 11156

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			08/27/24 08:34	1
Sulfate	ND		0.50	mg/L			08/27/24 08:34	1

Lab Sample ID: LCS 885-11156/12
Matrix: Water
Analysis Batch: 11156

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.79		mg/L		96	90 - 110
Sulfate	10.0	9.35		mg/L		93	90 - 110

Lab Sample ID: MRL 885-11156/10
Matrix: Water
Analysis Batch: 11156

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.530		mg/L		106	50 - 150
Sulfate	0.500	0.526		mg/L		105	50 - 150

Lab Sample ID: MB 885-11157/11
Matrix: Water
Analysis Batch: 11157

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10	mg/L			08/27/24 08:34	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10661-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-11157/12
Matrix: Water
Analysis Batch: 11157

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.53		mg/L		101	90 - 110

Lab Sample ID: MRL 885-11157/10
Matrix: Water
Analysis Batch: 11157

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.0955	J	mg/L		95	50 - 150

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-11366/1
Matrix: Water
Analysis Batch: 11366

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50		mg/L			08/29/24 15:56	1

Lab Sample ID: LCS 885-11366/2
Matrix: Water
Analysis Batch: 11366

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1020		mg/L		102	80 - 120

GC/MS VOA

Analysis Batch: 11469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-1	FY Treated Eff	Total/NA	Water	8260B	
885-10661-2	FY Raw	Total/NA	Water	8260B	
MB 885-11469/4	Method Blank	Total/NA	Water	8260B	
STOBLK 885-11469/19	Method Blank	Total/NA	Water	8260B	
LCS 885-11469/3	Lab Control Sample	Total/NA	Water	8260B	
885-10661-1 MS	FY Treated Eff	Total/NA	Water	8260B	
885-10661-1 MSD	FY Treated Eff	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 11176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-3	FY OX Eff	Total/NA	Air	8015M/D	
885-10661-5	FY DTA Eff	Total/NA	Air	8015M/D	
MB 885-11176/9	Method Blank	Total/NA	Air	8015M/D	
LCS 885-11176/8	Lab Control Sample	Total/NA	Air	8015M/D	

Analysis Batch: 11177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-3	FY OX Eff	Total/NA	Air	8021B	
885-10661-5	FY DTA Eff	Total/NA	Air	8021B	
MB 885-11177/9	Method Blank	Total/NA	Air	8021B	
LCS 885-11177/8	Lab Control Sample	Total/NA	Air	8021B	

Analysis Batch: 11387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-1	FY Treated Eff	Total/NA	Water	8015M/D	
885-10661-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-11387/14	Method Blank	Total/NA	Water	8015M/D	
LCS 885-11387/13	Lab Control Sample	Total/NA	Water	8015M/D	
885-10661-1 MS	FY Treated Eff	Total/NA	Water	8015M/D	
885-10661-1 MSD	FY Treated Eff	Total/NA	Water	8015M/D	

GC Semi VOA

Analysis Batch: 11384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-1	FY Treated Eff	Total/NA	Water	8015M/D	11420
885-10661-2	FY Raw	Total/NA	Water	8015M/D	11420
MB 885-11420/1-A	Method Blank	Total/NA	Water	8015M/D	11420
LCS 885-11420/2-A	Lab Control Sample	Total/NA	Water	8015M/D	11420

Prep Batch: 11420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-1	FY Treated Eff	Total/NA	Water	3511	
885-10661-2	FY Raw	Total/NA	Water	3511	
MB 885-11420/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-11420/2-A	Lab Control Sample	Total/NA	Water	3511	

Prep Batch: 11586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-1	FY Treated Eff	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 11586 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-2	FY Raw	Total/NA	Water	8011	
MB 885-11586/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-11586/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-11586/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-11586/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 11773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-1	FY Treated Eff	Total/NA	Water	8011	11586
885-10661-2	FY Raw	Total/NA	Water	8011	11586
MB 885-11586/3-A	Method Blank	Total/NA	Water	8011	11586
LCS 885-11586/4-A	Lab Control Sample	Total/NA	Water	8011	11586
LCSD 885-11586/5-A	Lab Control Sample Dup	Total/NA	Water	8011	11586
MRL 885-11586/1-A	Lab Control Sample	Total/NA	Water	8011	11586

HPLC/IC

Analysis Batch: 11156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-1	FY Treated Eff	Total/NA	Water	300.0	
885-10661-2	FY Raw	Total/NA	Water	300.0	
MB 885-11156/11	Method Blank	Total/NA	Water	300.0	
LCS 885-11156/12	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-11156/10	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 11157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-1	FY Treated Eff	Total/NA	Water	300.0	
885-10661-2	FY Raw	Total/NA	Water	300.0	
MB 885-11157/11	Method Blank	Total/NA	Water	300.0	
LCS 885-11157/12	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-11157/10	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 11366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10661-1	FY Treated Eff	Total/NA	Water	2540C	
885-10661-2	FY Raw	Total/NA	Water	2540C	
MB 885-11366/1	Method Blank	Total/NA	Water	2540C	
LCS 885-11366/2	Lab Control Sample	Total/NA	Water	2540C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10661-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-10661-1
Date Collected: 08/26/24 10:03
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	11469	CM	EET ALB	09/03/24 12:08
Total/NA	Analysis	8015M/D		1	11387	JP	EET ALB	08/29/24 18:48
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 12:48
Total/NA	Prep	3511			11420	KR	EET ALB	08/30/24 13:05
Total/NA	Analysis	8015M/D		1	11384	KR	EET ALB	08/30/24 15:02
Total/NA	Analysis	300.0		1	11157	RC	EET ALB	08/27/24 21:28
Total/NA	Analysis	300.0		20	11156	RC	EET ALB	08/27/24 21:40
Total/NA	Analysis	2540C		1	11366	ES	EET ALB	08/29/24 15:56

Client Sample ID: FY Raw
Lab Sample ID: 885-10661-2
Date Collected: 08/26/24 10:40
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	11469	CM	EET ALB	09/03/24 12:33
Total/NA	Analysis	8015M/D		1	11387	JP	EET ALB	08/29/24 19:58
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 13:05
Total/NA	Prep	3511			11420	KR	EET ALB	08/30/24 13:05
Total/NA	Analysis	8015M/D		1	11384	KR	EET ALB	08/30/24 15:15
Total/NA	Analysis	300.0		1	11157	RC	EET ALB	08/27/24 21:53
Total/NA	Analysis	300.0		20	11156	RC	EET ALB	08/27/24 22:05
Total/NA	Analysis	2540C		1	11366	ES	EET ALB	08/29/24 15:56

Client Sample ID: FY OX Eff
Lab Sample ID: 885-10661-3
Date Collected: 08/26/24 08:55
Matrix: Air
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	11176	JP	EET ALB	08/27/24 15:40
Total/NA	Analysis	8021B		1	11177	JP	EET ALB	08/27/24 15:40

Client Sample ID: FY DTA Eff
Lab Sample ID: 885-10661-5
Date Collected: 08/26/24 10:25
Matrix: Air
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	11176	JP	EET ALB	08/27/24 16:03
Total/NA	Analysis	8021B		1	11177	JP	EET ALB	08/27/24 16:03

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10661-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10661-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Chain-of-Custody Record

Client: **Daniel B Stephens & Associates**

Mailing Address: **6020 Academy Rd NE, STE 100**
Albuquerque, NM 87109

Phone #: **505-822-9400**

email or Fax#: **gherrmann@geo-logic.com**

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ **Rush**_____

Project Name:
Former Y Station State Lead Site

Project #:
DB18.1157

Project Manager:
Grace Herrmann

Sampler: M. Salazar, I Torres
On Ice: ☒ Yes ☐ No
# of Coolers: 1 YOG1
Cooler Temp(including CF): 0.1+0=0.1°C

HALL ENVIRONMENTAL ANALYSIS LABORA
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-10661 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
08/26	1003	H_2O	FY Treated Eff	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4	1	X	X	X	X	X	X		
08/26	1040	H_2O	FY Raw	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4	2	X	X	X	X	X	X		
08/26	0855	Air	FY OX Eff	1-Tedlar	None	3							X	X
08/26	0903	Air	FY Comb Inf	1-Tedlar	None	4							X	X
08/26	1023	Air	FY DTA Eff	1-Tedlar	None	5							X	X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
08/27	1200		SCM	COC	8/27/24	1200
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc. Job Number: 885-10661-1

Login Number: 10661 **List Source: Eurofins Albuquerque**

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
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.	False	Limited volume received.
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 9/12/2024 3:12:37 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-10986-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

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

Authorization



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9/12/2024 3:12:37 PM

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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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: 885-10986-1 Eurofins Albuquerque

Job Narrative
885-10986-1

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 sample was received on 8/30/2024 4:47 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 24.2°C.

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

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

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10986-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Comb INF **Lab Sample ID: 885-10986-1**
Date Collected: 08/30/24 13:06 **Matrix: Air**
Date Received: 08/30/24 16:47
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1800		250		ug/L			09/06/24 11:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*15 - 412*		*09/06/24 11:30*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20		5.0		ug/L			09/06/24 11:30	50
Ethylbenzene	9.3		5.0		ug/L			09/06/24 11:30	50
Methyl-tert-butyl Ether (MTBE)	ND		13		ug/L			09/06/24 11:30	50
Toluene	68		5.0		ug/L			09/06/24 11:30	50
Xylenes, Total	36		10		ug/L			09/06/24 11:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/06/24 11:30*	*50*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-11841/3
Matrix: Air
Analysis Batch: 11841

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L			09/06/24 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 412*		*09/06/24 11:07*	*1*

Lab Sample ID: LCS 885-11841/2
Matrix: Air
Analysis Batch: 11841

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			50.0	50.8		ug/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*219*		*15 - 412*

Lab Sample ID: 885-10986-1 DU
Matrix: Air
Analysis Batch: 11841

Client Sample ID: FY Comb INF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	1800			1860		ug/L				4	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*15 - 412*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-11842/3
Matrix: Air
Analysis Batch: 11842

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10		ug/L			09/06/24 11:07	1
Ethylbenzene	ND		0.10		ug/L			09/06/24 11:07	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			09/06/24 11:07	1
Toluene	ND		0.10		ug/L			09/06/24 11:07	1
Xylenes, Total	ND		0.20		ug/L			09/06/24 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*09/06/24 11:07*	*1*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10986-1
Project/Site: Former Y Station State Lead Site

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-11842/2
Matrix: Air
Analysis Batch: 11842

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.00	2.09		ug/L		104	70 - 130		
Ethylbenzene			2.00	2.15		ug/L		107	70 - 130		
m&p-Xylene			4.00	4.27		ug/L		107	70 - 130		
Methyl-tert-butyl Ether (MTBE)			2.00	2.06		ug/L		103	70 - 130		
o-Xylene			2.00	2.10		ug/L		105	70 - 130		
Toluene			2.00	2.12		ug/L		106	70 - 130		
Xylenes, Total			6.00	6.37		ug/L		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 885-10986-1 DU
Matrix: Air
Analysis Batch: 11842

Client Sample ID: FY Comb INF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	20			21.7		ug/L				7	20
Ethylbenzene	9.3			10.5		ug/L				12	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Toluene	68			76.0		ug/L				11	20
Xylenes, Total	36			40.6		ug/L				11	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10986-1

GC VOA

Analysis Batch: 11841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10986-1	FY Comb INF	Total/NA	Air	8015M/D	
MB 885-11841/3	Method Blank	Total/NA	Air	8015M/D	
LCS 885-11841/2	Lab Control Sample	Total/NA	Air	8015M/D	
885-10986-1 DU	FY Comb INF	Total/NA	Air	8015M/D	

Analysis Batch: 11842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10986-1	FY Comb INF	Total/NA	Air	8021B	
MB 885-11842/3	Method Blank	Total/NA	Air	8021B	
LCS 885-11842/2	Lab Control Sample	Total/NA	Air	8021B	
885-10986-1 DU	FY Comb INF	Total/NA	Air	8021B	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10986-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Comb INF
Lab Sample ID: 885-10986-1
Date Collected: 08/30/24 13:06
Matrix: Air
Date Received: 08/30/24 16:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	11841	AT	EET ALB	09/06/24 11:30
Total/NA	Analysis	8021B		50	11842	AT	EET ALB	09/06/24 11:30

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10986-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Chain-of-Custody Record

Client: DBSA

Mailing Address: 6020 Academy Rd NE STE 100, Albuquerque NM 87109

Phone #: 505-822-9400

email or Fax#: Gherrmann@geo-logic.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Former Y Station State lead Site

Project #: DB18.1157

Project Manager: Grace Herrmann

Sampler: B. Constand

On Ice: ☐ Yes ☑ No

# of Coolers: 0

Cooler Temp(including CF): 23.9 + 0.3 = 24.2 (C)

HALL ENVIRONME
ANALYSIS LABOR
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 8710
Tel. 505-345-3975 Fax 505-345-4107

885-10986 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/30/24	13:06	Air	FY COMB INF	1-1L Tedlar	N/A		X	X								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/30/24	16:47			QC	8.30.24	1647
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-10986-1

Login Number: 10986

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
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	Thermal preservation not required.
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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 10/7/2024 3:13:55 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-11761-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

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

Authorization



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Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Qualifiers

GC/MS VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
885-11761-1

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 9/12/2024 3:05 PM. 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 0.4°C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) and Matrix Spike (MS) for analytical batch 885-12450 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

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

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

Diesel Range Organics
Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-12384 and analytical batch 885-12379 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-12384 and analytical batch 885-12379 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA
Method 8011: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-12771 and analytical batch 885-12774 recovered outside control limits for the following analytes: 1,2-Dibromoethane (EDB). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Samples with hits are not reported and will be re-extracted.

Method 8011: The continuing calibration verification (CCV) associated with batch 885-12774 recovered above the upper control limit for 1,2-Dibromoethane (EDB). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: Trip Blank (885-11761-5). Samples with hits are not reported and will be re-extracted.

Method 8011: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 885-12833 and analytical batch 885-13533 recovered outside control limits for the following analytes: 1,2-Dibromoethane (EDB).

Job ID: 885-11761-1 (Continued) Eurofins Albuquerque

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

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

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

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-11761-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-11761-1
Date Collected: 09/12/24 07:28
Matrix: Water
Date Received: 09/12/24 15:05

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 00:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 00:50	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 00:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 00:50	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 00:50	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 00:50	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 00:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 00:50	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 00:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 00:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 00:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 00:50	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 00:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 00:50	1
1,2-Dichloroethane (EDC)	**3.0**		1.0		ug/L			09/20/24 00:50	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 00:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 00:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 00:50	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 00:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 00:50	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 00:50	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 00:50	1
2-Butanone	ND		10		ug/L			09/20/24 00:50	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 00:50	1
2-Hexanone	ND		10		ug/L			09/20/24 00:50	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 00:50	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 00:50	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 00:50	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 00:50	1
Acetone	ND		10		ug/L			09/20/24 00:50	1
Benzene	ND	*+	1.0		ug/L			09/20/24 00:50	1
Bromobenzene	ND		1.0		ug/L			09/20/24 00:50	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 00:50	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 00:50	1
Bromoform	ND		1.0		ug/L			09/20/24 00:50	1
Bromomethane	ND		3.0		ug/L			09/20/24 00:50	1
Carbon disulfide	ND		10		ug/L			09/20/24 00:50	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 00:50	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 00:50	1
Chloroethane	ND		2.0		ug/L			09/20/24 00:50	1
Chloroform	ND		1.0		ug/L			09/20/24 00:50	1
Chloromethane	ND		3.0		ug/L			09/20/24 00:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 00:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 00:50	1
Dibromomethane	ND		1.0		ug/L			09/20/24 00:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 00:50	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 00:50	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 00:50	1
Isopropylbenzene	ND		1.0		ug/L			09/20/24 00:50	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-11761-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-11761-1
Date Collected: 09/12/24 07:28
Matrix: Water
Date Received: 09/12/24 15:05

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 00:50	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 00:50	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 00:50	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 00:50	1
Naphthalene	ND		2.0		ug/L			09/20/24 00:50	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 00:50	1
Styrene	ND		1.0		ug/L			09/20/24 00:50	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 00:50	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 00:50	1
Toluene	ND		1.0		ug/L			09/20/24 00:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 00:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 00:50	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 00:50	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 00:50	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 00:50	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*09/20/24 00:50*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/20/24 00:50*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/20/24 00:50*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*09/20/24 00:50*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L			09/20/24 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*15 - 270*		*09/20/24 05:22*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.13**	**D *1**	0.094		ug/L		09/24/24 08:24	10/03/24 03:24	10

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		09/17/24 10:20	09/17/24 12:52	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		09/17/24 10:20	09/17/24 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*111*		*46 - 159*	*09/17/24 10:20*	*09/17/24 12:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69**		10		mg/L			09/13/24 16:41	20
Nitrate as N	**1.5**		0.10		mg/L			09/13/24 16:04	1
Sulfate	**40**		0.50		mg/L			09/13/24 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**440**		50		mg/L			09/18/24 13:45	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-11761-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Raw
Lab Sample ID: 885-11761-2
Date Collected: 09/12/24 07:21
Matrix: Water
Date Received: 09/12/24 15:05

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			09/20/24 01:15	5
1,1,1-Trichloroethane	ND		5.0		ug/L			09/20/24 01:15	5
1,1,2,2-Tetrachloroethane	ND		10		ug/L			09/20/24 01:15	5
1,1,2-Trichloroethane	ND		5.0		ug/L			09/20/24 01:15	5
1,1-Dichloroethane	ND		5.0		ug/L			09/20/24 01:15	5
1,1-Dichloroethene	ND		5.0		ug/L			09/20/24 01:15	5
1,1-Dichloropropene	ND		5.0		ug/L			09/20/24 01:15	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			09/20/24 01:15	5
1,2,3-Trichloropropane	ND		10		ug/L			09/20/24 01:15	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			09/20/24 01:15	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			09/20/24 01:15	5
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/20/24 01:15	5
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			09/20/24 01:15	5
1,2-Dichlorobenzene	ND		5.0		ug/L			09/20/24 01:15	5
1,2-Dichloroethane (EDC)	**110**		5.0		ug/L			09/20/24 01:15	5
1,2-Dichloropropane	ND		5.0		ug/L			09/20/24 01:15	5
1,3,5-Trimethylbenzene	**16**		5.0		ug/L			09/20/24 01:15	5
1,3-Dichlorobenzene	ND		5.0		ug/L			09/20/24 01:15	5
1,3-Dichloropropane	ND		5.0		ug/L			09/20/24 01:15	5
1,4-Dichlorobenzene	ND		5.0		ug/L			09/20/24 01:15	5
1-Methylnaphthalene	ND		20		ug/L			09/20/24 01:15	5
2,2-Dichloropropane	ND		10		ug/L			09/20/24 01:15	5
2-Butanone	ND		50		ug/L			09/20/24 01:15	5
2-Chlorotoluene	ND		5.0		ug/L			09/20/24 01:15	5
2-Hexanone	ND		50		ug/L			09/20/24 01:15	5
2-Methylnaphthalene	ND		20		ug/L			09/20/24 01:15	5
4-Chlorotoluene	ND		5.0		ug/L			09/20/24 01:15	5
4-Isopropyltoluene	ND		5.0		ug/L			09/20/24 01:15	5
4-Methyl-2-pentanone	ND		50		ug/L			09/20/24 01:15	5
Acetone	ND		50		ug/L			09/20/24 01:15	5
Benzene	**120**		5.0		ug/L			09/25/24 14:49	5
Bromobenzene	ND		5.0		ug/L			09/20/24 01:15	5
Bromodichloromethane	ND		5.0		ug/L			09/20/24 01:15	5
Dibromochloromethane	ND		5.0		ug/L			09/20/24 01:15	5
Bromoform	ND		5.0		ug/L			09/20/24 01:15	5
Bromomethane	ND		15		ug/L			09/20/24 01:15	5
Carbon disulfide	ND		50		ug/L			09/20/24 01:15	5
Carbon tetrachloride	ND		5.0		ug/L			09/20/24 01:15	5
Chlorobenzene	ND		5.0		ug/L			09/20/24 01:15	5
Chloroethane	ND		10		ug/L			09/20/24 01:15	5
Chloroform	ND		5.0		ug/L			09/20/24 01:15	5
Chloromethane	ND		15		ug/L			09/20/24 01:15	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			09/20/24 01:15	5
cis-1,3-Dichloropropene	ND		5.0		ug/L			09/20/24 01:15	5
Dibromomethane	ND		5.0		ug/L			09/20/24 01:15	5
Dichlorodifluoromethane	ND		5.0		ug/L			09/20/24 01:15	5
Ethylbenzene	ND		5.0		ug/L			09/20/24 01:15	5
Hexachlorobutadiene	ND		5.0		ug/L			09/20/24 01:15	5
Isopropylbenzene	ND		5.0		ug/L			09/20/24 01:15	5

Client Sample ID: FY Raw
Lab Sample ID: 885-11761-2
Date Collected: 09/12/24 07:21
Matrix: Water
Date Received: 09/12/24 15:05

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			09/20/24 01:15	5
Methylene Chloride	ND		15		ug/L			09/20/24 01:15	5
n-Butylbenzene	ND		15		ug/L			09/20/24 01:15	5
N-Propylbenzene	ND		5.0		ug/L			09/20/24 01:15	5
Naphthalene	ND		10		ug/L			09/20/24 01:15	5
sec-Butylbenzene	ND		5.0		ug/L			09/20/24 01:15	5
Styrene	ND		5.0		ug/L			09/20/24 01:15	5
tert-Butylbenzene	ND		5.0		ug/L			09/20/24 01:15	5
Tetrachloroethene (PCE)	ND		5.0		ug/L			09/20/24 01:15	5
Toluene	ND		5.0		ug/L			09/20/24 01:15	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			09/20/24 01:15	5
trans-1,3-Dichloropropene	ND		5.0		ug/L			09/20/24 01:15	5
Trichloroethene (TCE)	ND		5.0		ug/L			09/20/24 01:15	5
Trichlorofluoromethane	ND		5.0		ug/L			09/20/24 01:15	5
Vinyl chloride	ND		5.0		ug/L			09/20/24 01:15	5
Xylenes, Total	**28**		7.5		ug/L			09/20/24 01:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*09/20/24 01:15*	*5*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*09/25/24 14:49*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/20/24 01:15*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/25/24 14:49*	*5*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*09/20/24 01:15*	*5*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/25/24 14:49*	*5*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*09/20/24 01:15*	*5*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/25/24 14:49*	*5*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.85**		0.050		mg/L			09/20/24 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*15 - 270*		*09/20/24 05:44*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**1.8**	**D *1**	0.95		ug/L		09/24/24 11:04	10/03/24 03:39	100

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		09/17/24 10:20	09/17/24 13:04	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		09/17/24 10:20	09/17/24 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*111*		*46 - 159*	*09/17/24 10:20*	*09/17/24 13:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68**		10		mg/L			09/13/24 17:05	20
Nitrate as N	**1.4**		0.10		mg/L			09/13/24 16:53	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-11761-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Raw **Lab Sample ID: 885-11761-2**
Date Collected: 09/12/24 07:21 **Matrix: Water**
Date Received: 09/12/24 15:05

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	39		0.50		mg/L			09/13/24 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	470		50		mg/L			09/18/24 13:45	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-11761-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY OX Eff
Lab Sample ID: 885-11761-3
Date Collected: 09/12/24 10:14
Matrix: Air
Date Received: 09/12/24 15:05
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	11		5.0		ug/L			09/13/24 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 412*		*09/13/24 15:50*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.30		0.10		ug/L			09/13/24 15:50	1
Ethylbenzene	0.17		0.10		ug/L			09/13/24 15:50	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			09/13/24 15:50	1
Toluene	0.63		0.10		ug/L			09/13/24 15:50	1
Xylenes, Total	1.0		0.20		ug/L			09/13/24 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*09/13/24 15:50*	*1*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-11761-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Comb Inf
Lab Sample ID: 885-11761-4
Date Collected: 09/12/24 10:09
Matrix: Air
Date Received: 09/12/24 15:05
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	3100		250		ug/L			09/13/24 16:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*15 - 412*		*09/13/24 16:14*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	21		5.0		ug/L			09/13/24 16:14	50
Ethylbenzene	18		5.0		ug/L			09/13/24 16:14	50
Methyl-tert-butyl Ether (MTBE)	ND		13		ug/L			09/13/24 16:14	50
Toluene	130		5.0		ug/L			09/13/24 16:14	50
Xylenes, Total	87		10		ug/L			09/13/24 16:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*09/13/24 16:14*	*50*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-11761-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-11761-5
Date Collected: 09/12/24 00:00
Matrix: Water
Date Received: 09/12/24 15:05

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 01:39	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 01:39	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 01:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 01:39	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 01:39	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 01:39	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 01:39	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 01:39	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 01:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 01:39	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 01:39	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 01:39	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 01:39	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 01:39	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/20/24 01:39	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 01:39	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 01:39	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 01:39	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 01:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 01:39	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 01:39	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 01:39	1
2-Butanone	ND		10		ug/L			09/20/24 01:39	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 01:39	1
2-Hexanone	ND		10		ug/L			09/20/24 01:39	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 01:39	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 01:39	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 01:39	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 01:39	1
Acetone	ND		10		ug/L			09/20/24 01:39	1
Benzene	ND	*+	1.0		ug/L			09/20/24 01:39	1
Bromobenzene	ND		1.0		ug/L			09/20/24 01:39	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 01:39	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 01:39	1
Bromoform	ND		1.0		ug/L			09/20/24 01:39	1
Bromomethane	ND		3.0		ug/L			09/20/24 01:39	1
Carbon disulfide	ND		10		ug/L			09/20/24 01:39	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 01:39	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 01:39	1
Chloroethane	ND		2.0		ug/L			09/20/24 01:39	1
Chloroform	ND		1.0		ug/L			09/20/24 01:39	1
Chloromethane	ND		3.0		ug/L			09/20/24 01:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 01:39	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 01:39	1
Dibromomethane	ND		1.0		ug/L			09/20/24 01:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 01:39	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 01:39	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 01:39	1
Isopropylbenzene	ND		1.0		ug/L			09/20/24 01:39	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-11761-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank **Lab Sample ID: 885-11761-5**
Date Collected: 09/12/24 00:00 **Matrix: Water**
Date Received: 09/12/24 15:05

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 01:39	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 01:39	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 01:39	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 01:39	1
Naphthalene	ND		2.0		ug/L			09/20/24 01:39	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 01:39	1
Styrene	ND		1.0		ug/L			09/20/24 01:39	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 01:39	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 01:39	1
Toluene	ND		1.0		ug/L			09/20/24 01:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 01:39	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 01:39	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 01:39	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 01:39	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 01:39	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/20/24 01:39*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/20/24 01:39*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/20/24 01:39*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/20/24 01:39*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*+	0.0095		ug/L		09/23/24 12:50	09/24/24 10:13	1

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

Lab Sample ID: MB 885-12450/5
Matrix: Water
Analysis Batch: 12450

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/19/24 13:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/19/24 13:27	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/19/24 13:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/19/24 13:27	1
1,1-Dichloroethane	ND		1.0		ug/L			09/19/24 13:27	1
1,1-Dichloroethene	ND		1.0		ug/L			09/19/24 13:27	1
1,1-Dichloropropene	ND		1.0		ug/L			09/19/24 13:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/19/24 13:27	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/19/24 13:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/19/24 13:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/19/24 13:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/19/24 13:27	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/19/24 13:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/19/24 13:27	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/19/24 13:27	1
1,2-Dichloropropane	ND		1.0		ug/L			09/19/24 13:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/19/24 13:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/19/24 13:27	1
1,3-Dichloropropane	ND		1.0		ug/L			09/19/24 13:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/19/24 13:27	1
1-Methylnaphthalene	ND		4.0		ug/L			09/19/24 13:27	1
2,2-Dichloropropane	ND		2.0		ug/L			09/19/24 13:27	1
2-Butanone	ND		10		ug/L			09/19/24 13:27	1
2-Chlorotoluene	ND		1.0		ug/L			09/19/24 13:27	1
2-Hexanone	ND		10		ug/L			09/19/24 13:27	1
2-Methylnaphthalene	ND		4.0		ug/L			09/19/24 13:27	1
4-Chlorotoluene	ND		1.0		ug/L			09/19/24 13:27	1
4-Isopropyltoluene	ND		1.0		ug/L			09/19/24 13:27	1
4-Methyl-2-pentanone	ND		10		ug/L			09/19/24 13:27	1
Acetone	ND		10		ug/L			09/19/24 13:27	1
Benzene	ND		1.0		ug/L			09/19/24 13:27	1
Bromobenzene	ND		1.0		ug/L			09/19/24 13:27	1
Bromodichloromethane	ND		1.0		ug/L			09/19/24 13:27	1
Dibromochloromethane	ND		1.0		ug/L			09/19/24 13:27	1
Bromoform	ND		1.0		ug/L			09/19/24 13:27	1
Bromomethane	ND		3.0		ug/L			09/19/24 13:27	1
Carbon disulfide	ND		10		ug/L			09/19/24 13:27	1
Carbon tetrachloride	ND		1.0		ug/L			09/19/24 13:27	1
Chlorobenzene	ND		1.0		ug/L			09/19/24 13:27	1
Chloroethane	ND		2.0		ug/L			09/19/24 13:27	1
Chloroform	ND		1.0		ug/L			09/19/24 13:27	1
Chloromethane	ND		3.0		ug/L			09/19/24 13:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/19/24 13:27	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/19/24 13:27	1
Dibromomethane	ND		1.0		ug/L			09/19/24 13:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/19/24 13:27	1
Ethylbenzene	ND		1.0		ug/L			09/19/24 13:27	1
Hexachlorobutadiene	ND		1.0		ug/L			09/19/24 13:27	1

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

Lab Sample ID: MB 885-12450/5
Matrix: Water
Analysis Batch: 12450

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			09/19/24 13:27	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/19/24 13:27	1
Methylene Chloride	ND		3.0		ug/L			09/19/24 13:27	1
n-Butylbenzene	ND		3.0		ug/L			09/19/24 13:27	1
N-Propylbenzene	ND		1.0		ug/L			09/19/24 13:27	1
Naphthalene	ND		2.0		ug/L			09/19/24 13:27	1
sec-Butylbenzene	ND		1.0		ug/L			09/19/24 13:27	1
Styrene	ND		1.0		ug/L			09/19/24 13:27	1
tert-Butylbenzene	ND		1.0		ug/L			09/19/24 13:27	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/19/24 13:27	1
Toluene	ND		1.0		ug/L			09/19/24 13:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/19/24 13:27	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/19/24 13:27	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/19/24 13:27	1
Trichlorofluoromethane	ND		1.0		ug/L			09/19/24 13:27	1
Vinyl chloride	ND		1.0		ug/L			09/19/24 13:27	1
Xylenes, Total	ND		1.5		ug/L			09/19/24 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*09/19/24 13:27*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/19/24 13:27*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/19/24 13:27*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*09/19/24 13:27*	*1*

Lab Sample ID: STOBLK 885-12450/81
Matrix: Water
Analysis Batch: 12450

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 05:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 05:43	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 05:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 05:43	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 05:43	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 05:43	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 05:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 05:43	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 05:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 05:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 05:43	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 05:43	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 05:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 05:43	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/20/24 05:43	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 05:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 05:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 05:43	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 05:43	1

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

Lab Sample ID: STOBLK 885-12450/81
Matrix: Water
Analysis Batch: 12450

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 05:43	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 05:43	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 05:43	1
2-Butanone	ND		10		ug/L			09/20/24 05:43	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 05:43	1
2-Hexanone	ND		10		ug/L			09/20/24 05:43	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 05:43	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 05:43	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 05:43	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 05:43	1
Acetone	ND		10		ug/L			09/20/24 05:43	1
Benzene	ND		1.0		ug/L			09/20/24 05:43	1
Bromobenzene	ND		1.0		ug/L			09/20/24 05:43	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 05:43	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 05:43	1
Bromoform	ND		1.0		ug/L			09/20/24 05:43	1
Bromomethane	ND		3.0		ug/L			09/20/24 05:43	1
Carbon disulfide	ND		10		ug/L			09/20/24 05:43	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 05:43	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 05:43	1
Chloroethane	ND		2.0		ug/L			09/20/24 05:43	1
Chloroform	ND		1.0		ug/L			09/20/24 05:43	1
Chloromethane	ND		3.0		ug/L			09/20/24 05:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 05:43	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 05:43	1
Dibromomethane	ND		1.0		ug/L			09/20/24 05:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 05:43	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 05:43	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 05:43	1
Isopropylbenzene	ND		1.0		ug/L			09/20/24 05:43	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 05:43	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 05:43	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 05:43	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 05:43	1
Naphthalene	ND		2.0		ug/L			09/20/24 05:43	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 05:43	1
Styrene	ND		1.0		ug/L			09/20/24 05:43	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 05:43	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 05:43	1
Toluene	ND		1.0		ug/L			09/20/24 05:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 05:43	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 05:43	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 05:43	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 05:43	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 05:43	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 05:43	1

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

Lab Sample ID: STOBLK 885-12450/81
Matrix: Water
Analysis Batch: 12450

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

Surrogate	STOBLK %Recovery	STOBLK Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/20/24 05:43*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/20/24 05:43*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/20/24 05:43*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/20/24 05:43*	*1*

Lab Sample ID: LCS 885-12450/4
Matrix: Water
Analysis Batch: 12450

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.1	24.3		ug/L		121	70 - 130
Benzene	20.1	26.4	*+	ug/L		131	70 - 130
Chlorobenzene	20.1	23.5		ug/L		117	70 - 130
Toluene	20.2	23.5		ug/L		117	70 - 130
Trichloroethene (TCE)	20.2	24.9		ug/L		123	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 885-12987/1005
Matrix: Water
Analysis Batch: 12987

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			09/25/24 12:46	1
1,1,1-Trichloroethane	ND		1.0	ug/L			09/25/24 12:46	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			09/25/24 12:46	1
1,1,2-Trichloroethane	ND		1.0	ug/L			09/25/24 12:46	1
1,1-Dichloroethane	ND		1.0	ug/L			09/25/24 12:46	1
1,1-Dichloroethene	ND		1.0	ug/L			09/25/24 12:46	1
1,1-Dichloropropene	ND		1.0	ug/L			09/25/24 12:46	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			09/25/24 12:46	1
1,2,3-Trichloropropane	ND		2.0	ug/L			09/25/24 12:46	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			09/25/24 12:46	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			09/25/24 12:46	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			09/25/24 12:46	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			09/25/24 12:46	1
1,2-Dichlorobenzene	ND		1.0	ug/L			09/25/24 12:46	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			09/25/24 12:46	1
1,2-Dichloropropane	ND		1.0	ug/L			09/25/24 12:46	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			09/25/24 12:46	1
1,3-Dichlorobenzene	ND		1.0	ug/L			09/25/24 12:46	1
1,3-Dichloropropane	ND		1.0	ug/L			09/25/24 12:46	1
1,4-Dichlorobenzene	ND		1.0	ug/L			09/25/24 12:46	1
1-Methylnaphthalene	ND		4.0	ug/L			09/25/24 12:46	1

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

Lab Sample ID: MB 885-12987/1005
Matrix: Water
Analysis Batch: 12987

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		2.0		ug/L			09/25/24 12:46	1
2-Butanone	ND		10		ug/L			09/25/24 12:46	1
2-Chlorotoluene	ND		1.0		ug/L			09/25/24 12:46	1
2-Hexanone	ND		10		ug/L			09/25/24 12:46	1
2-Methylnaphthalene	ND		4.0		ug/L			09/25/24 12:46	1
4-Chlorotoluene	ND		1.0		ug/L			09/25/24 12:46	1
4-Isopropyltoluene	ND		1.0		ug/L			09/25/24 12:46	1
4-Methyl-2-pentanone	ND		10		ug/L			09/25/24 12:46	1
Acetone	ND		10		ug/L			09/25/24 12:46	1
Benzene	ND		1.0		ug/L			09/25/24 12:46	1
Bromobenzene	ND		1.0		ug/L			09/25/24 12:46	1
Bromodichloromethane	ND		1.0		ug/L			09/25/24 12:46	1
Dibromochloromethane	ND		1.0		ug/L			09/25/24 12:46	1
Bromoform	ND		1.0		ug/L			09/25/24 12:46	1
Bromomethane	ND		3.0		ug/L			09/25/24 12:46	1
Carbon disulfide	ND		10		ug/L			09/25/24 12:46	1
Carbon tetrachloride	ND		1.0		ug/L			09/25/24 12:46	1
Chlorobenzene	ND		1.0		ug/L			09/25/24 12:46	1
Chloroethane	ND		2.0		ug/L			09/25/24 12:46	1
Chloroform	ND		1.0		ug/L			09/25/24 12:46	1
Chloromethane	ND		3.0		ug/L			09/25/24 12:46	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/25/24 12:46	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/25/24 12:46	1
Dibromomethane	ND		1.0		ug/L			09/25/24 12:46	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/25/24 12:46	1
Ethylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
Hexachlorobutadiene	ND		1.0		ug/L			09/25/24 12:46	1
Isopropylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/25/24 12:46	1
Methylene Chloride	ND		2.5		ug/L			09/25/24 12:46	1
n-Butylbenzene	ND		3.0		ug/L			09/25/24 12:46	1
N-Propylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
Naphthalene	ND		2.0		ug/L			09/25/24 12:46	1
sec-Butylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
Styrene	ND		1.0		ug/L			09/25/24 12:46	1
tert-Butylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/25/24 12:46	1
Toluene	ND		1.0		ug/L			09/25/24 12:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/25/24 12:46	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/25/24 12:46	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/25/24 12:46	1
Trichlorofluoromethane	ND		1.0		ug/L			09/25/24 12:46	1
Vinyl chloride	ND		1.0		ug/L			09/25/24 12:46	1
Xylenes, Total	ND		1.5		ug/L			09/25/24 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*09/25/24 12:46*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/25/24 12:46*	*1*

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

Lab Sample ID: MB 885-12987/1005
Matrix: Water
Analysis Batch: 12987

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*09/25/24 12:46*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/25/24 12:46*	*1*

Lab Sample ID: MB 885-12987/5
Matrix: Water
Analysis Batch: 12987

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/25/24 12:46	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/25/24 12:46	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/25/24 12:46	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/25/24 12:46	1
1,1-Dichloroethane	ND		1.0		ug/L			09/25/24 12:46	1
1,1-Dichloroethene	ND		1.0		ug/L			09/25/24 12:46	1
1,1-Dichloropropene	ND		1.0		ug/L			09/25/24 12:46	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/25/24 12:46	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/25/24 12:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/25/24 12:46	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/25/24 12:46	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/25/24 12:46	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/25/24 12:46	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/25/24 12:46	1
1,2-Dichloropropane	ND		1.0		ug/L			09/25/24 12:46	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/25/24 12:46	1
1,3-Dichloropropane	ND		1.0		ug/L			09/25/24 12:46	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/25/24 12:46	1
1-Methylnaphthalene	ND		4.0		ug/L			09/25/24 12:46	1
2,2-Dichloropropane	ND		2.0		ug/L			09/25/24 12:46	1
2-Butanone	ND		10		ug/L			09/25/24 12:46	1
2-Chlorotoluene	ND		1.0		ug/L			09/25/24 12:46	1
2-Hexanone	ND		10		ug/L			09/25/24 12:46	1
2-Methylnaphthalene	ND		4.0		ug/L			09/25/24 12:46	1
4-Chlorotoluene	ND		1.0		ug/L			09/25/24 12:46	1
4-Isopropyltoluene	ND		1.0		ug/L			09/25/24 12:46	1
4-Methyl-2-pentanone	ND		10		ug/L			09/25/24 12:46	1
Acetone	ND		10		ug/L			09/25/24 12:46	1
Benzene	ND		1.0		ug/L			09/25/24 12:46	1
Bromobenzene	ND		1.0		ug/L			09/25/24 12:46	1
Bromodichloromethane	ND		1.0		ug/L			09/25/24 12:46	1
Dibromochloromethane	ND		1.0		ug/L			09/25/24 12:46	1
Bromoform	ND		1.0		ug/L			09/25/24 12:46	1
Bromomethane	ND		3.0		ug/L			09/25/24 12:46	1
Carbon disulfide	ND		10		ug/L			09/25/24 12:46	1
Carbon tetrachloride	ND		1.0		ug/L			09/25/24 12:46	1
Chlorobenzene	ND		1.0		ug/L			09/25/24 12:46	1
Chloroethane	ND		2.0		ug/L			09/25/24 12:46	1

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

Lab Sample ID: MB 885-12987/5
Matrix: Water
Analysis Batch: 12987

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0		ug/L			09/25/24 12:46	1
Chloromethane	ND		3.0		ug/L			09/25/24 12:46	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/25/24 12:46	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/25/24 12:46	1
Dibromomethane	ND		1.0		ug/L			09/25/24 12:46	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/25/24 12:46	1
Ethylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
Hexachlorobutadiene	ND		1.0		ug/L			09/25/24 12:46	1
Isopropylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/25/24 12:46	1
Methylene Chloride	ND		2.5		ug/L			09/25/24 12:46	1
n-Butylbenzene	ND		3.0		ug/L			09/25/24 12:46	1
N-Propylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
Naphthalene	ND		2.0		ug/L			09/25/24 12:46	1
sec-Butylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
Styrene	ND		1.0		ug/L			09/25/24 12:46	1
tert-Butylbenzene	ND		1.0		ug/L			09/25/24 12:46	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/25/24 12:46	1
Toluene	ND		1.0		ug/L			09/25/24 12:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/25/24 12:46	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/25/24 12:46	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/25/24 12:46	1
Trichlorofluoromethane	ND		1.0		ug/L			09/25/24 12:46	1
Vinyl chloride	ND		1.0		ug/L			09/25/24 12:46	1
Xylenes, Total	ND		1.5		ug/L			09/25/24 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*09/25/24 12:46*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/25/24 12:46*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*09/25/24 12:46*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/25/24 12:46*	*1*

Lab Sample ID: LCS 885-12987/4
Matrix: Water
Analysis Batch: 12987

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	21.0		ug/L		104	70 - 130		
Benzene			20.1	22.2		ug/L		110	70 - 130		
Chlorobenzene			20.1	20.2		ug/L		101	70 - 130		
Toluene			20.2	20.5		ug/L		102	70 - 130		
Trichloroethene (TCE)			20.2	21.2		ug/L		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-11761-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-12300/12
Matrix: Air
Analysis Batch: 12300

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L			09/13/24 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 412*		*09/13/24 13:06*	*1*

Lab Sample ID: LCS 885-12300/11
Matrix: Air
Analysis Batch: 12300

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			50.0	49.8		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*207*		*15 - 412*

Lab Sample ID: MB 885-12441/1-A
Matrix: Water
Analysis Batch: 12607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12441

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L		09/18/24 08:48	09/19/24 10:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*15 - 270*	*09/18/24 08:48*	*09/19/24 10:33*	*1*

Lab Sample ID: LCS 885-12534/3-A
Matrix: Water
Analysis Batch: 12607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12534

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			0.500	0.417		mg/L		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*207*		*15 - 270*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-12301/12
Matrix: Air
Analysis Batch: 12301

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10		ug/L			09/13/24 13:06	1
Ethylbenzene	ND		0.10		ug/L			09/13/24 13:06	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			09/13/24 13:06	1
Toluene	ND		0.10		ug/L			09/13/24 13:06	1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-12301/12
Matrix: Air
Analysis Batch: 12301

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.20		ug/L			09/13/24 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*09/13/24 13:06*	*1*

Lab Sample ID: LCS 885-12301/11
Matrix: Air
Analysis Batch: 12301

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.00	1.96		ug/L		98	70 - 130		
Ethylbenzene			2.00	1.81		ug/L		91	70 - 130		
m&p-Xylene			4.00	3.61		ug/L		90	70 - 130		
Methyl-tert-butyl Ether (MTBE)			2.00	1.82		ug/L		91	70 - 130		
o-Xylene			2.00	1.73		ug/L		87	70 - 130		
Toluene			2.00	1.87		ug/L		94	70 - 130		
Xylenes, Total			6.00	5.34		ug/L		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-12767/3-A
Matrix: Water
Analysis Batch: 12774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12767

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010		ug/L		09/23/24 12:04	09/23/24 23:12	1

Lab Sample ID: MRL 885-12767/1-A
Matrix: Water
Analysis Batch: 12774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12767

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.0100	0.0140		ug/L		140	60 - 140		

Lab Sample ID: LCS 885-12771/4-A
Matrix: Water
Analysis Batch: 12774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12771

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.100	0.166	*+	ug/L		166	70 - 130		

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 885-12771/5-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 12774
Prep Batch: 12771

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			0.100	0.159	*+	ug/L		159	70 - 130	4	20

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-12384/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 12379
Prep Batch: 12384

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		09/17/24 10:20	09/17/24 12:16	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		09/17/24 10:20	09/17/24 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*111*		*46 - 159*	*09/17/24 10:20*	*09/17/24 12:16*	*1*

Lab Sample ID: LCS 885-12384/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 12379
Prep Batch: 12384

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			2.50	2.91		mg/L		116	57 - 147		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*114*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12259/4
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 12259

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			09/13/24 07:57	1
Sulfate	ND		0.50		mg/L			09/13/24 07:57	1

Lab Sample ID: LCS 885-12259/10
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 12259

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.77		mg/L		95	90 - 110		
Sulfate			10.0	9.26		mg/L		93	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-12259/3
Matrix: Water
Analysis Batch: 12259

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.508		mg/L		102	50 - 150		
Sulfate			0.500	0.489	J	mg/L		98	50 - 150		

Lab Sample ID: MB 885-12260/20
Matrix: Water
Analysis Batch: 12260

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10		mg/L			09/13/24 07:57	1

Lab Sample ID: LCS 885-12260/26
Matrix: Water
Analysis Batch: 12260

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			2.50	2.51		mg/L		100	90 - 110		

Lab Sample ID: MRL 885-12260/19
Matrix: Water
Analysis Batch: 12260

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.100	0.0982	J	mg/L		98	50 - 150		

Lab Sample ID: 885-11761-1 MS
Matrix: Water
Analysis Batch: 12260

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	1.5		2.50	4.09		mg/L		102	80 - 120		

Lab Sample ID: 885-11761-1 MSD
Matrix: Water
Analysis Batch: 12260

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	1.5		2.50	4.11		mg/L		103	80 - 120	0	20

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-12489/1
Matrix: Water
Analysis Batch: 12489

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50		mg/L			09/18/24 13:45	1

Method: 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 885-12489/2
Matrix: Water
Analysis Batch: 12489

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1020		mg/L		102	80 - 120		

Lab Sample ID: 885-11761-1 DU
Matrix: Water
Analysis Batch: 12489

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	440			453		mg/L				2	10

GC/MS VOA

Analysis Batch: 12450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-1	FY Treated Eff	Total/NA	Water	8260B	
885-11761-2	FY Raw	Total/NA	Water	8260B	
885-11761-5	Trip Blank	Total/NA	Water	8260B	
MB 885-12450/5	Method Blank	Total/NA	Water	8260B	
STOBLK 885-12450/81	Method Blank	Total/NA	Water	8260B	
LCS 885-12450/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 12987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-2	FY Raw	Total/NA	Water	8260B	
MB 885-12987/1005	Method Blank	Total/NA	Water	8260B	
MB 885-12987/5	Method Blank	Total/NA	Water	8260B	
LCS 885-12987/4	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 12300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-3	FY OX Eff	Total/NA	Air	8015M/D	
885-11761-4	FY Comb Inf	Total/NA	Air	8015M/D	
MB 885-12300/12	Method Blank	Total/NA	Air	8015M/D	
LCS 885-12300/11	Lab Control Sample	Total/NA	Air	8015M/D	

Analysis Batch: 12301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-3	FY OX Eff	Total/NA	Air	8021B	
885-11761-4	FY Comb Inf	Total/NA	Air	8021B	
MB 885-12301/12	Method Blank	Total/NA	Air	8021B	
LCS 885-12301/11	Lab Control Sample	Total/NA	Air	8021B	

Prep Batch: 12441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-12441/1-A	Method Blank	Total/NA	Water	5035	

Prep Batch: 12534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-12534/3-A	Lab Control Sample	Total/NA	Water	5035	

Analysis Batch: 12607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-1	FY Treated Eff	Total/NA	Water	8015M/D	
885-11761-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-12441/1-A	Method Blank	Total/NA	Water	8015M/D	12441
LCS 885-12534/3-A	Lab Control Sample	Total/NA	Water	8015M/D	12534

GC Semi VOA

Analysis Batch: 12379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-1	FY Treated Eff	Total/NA	Water	8015M/D	12384
885-11761-2	FY Raw	Total/NA	Water	8015M/D	12384
MB 885-12384/1-A	Method Blank	Total/NA	Water	8015M/D	12384

GC Semi VOA (Continued)

Analysis Batch: 12379 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-12384/2-A	Lab Control Sample	Total/NA	Water	8015M/D	12384

Prep Batch: 12384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-1	FY Treated Eff	Total/NA	Water	3511	
885-11761-2	FY Raw	Total/NA	Water	3511	
MB 885-12384/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-12384/2-A	Lab Control Sample	Total/NA	Water	3511	

Prep Batch: 12767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-12767/3-A	Method Blank	Total/NA	Water	8011	
MRL 885-12767/1-A	Lab Control Sample	Total/NA	Water	8011	

Prep Batch: 12771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-5	Trip Blank	Total/NA	Water	8011	
LCS 885-12771/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-12771/5-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 12774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-5	Trip Blank	Total/NA	Water	8011	12771
MB 885-12767/3-A	Method Blank	Total/NA	Water	8011	12767
LCS 885-12771/4-A	Lab Control Sample	Total/NA	Water	8011	12771
LCSD 885-12771/5-A	Lab Control Sample Dup	Total/NA	Water	8011	12771
MRL 885-12767/1-A	Lab Control Sample	Total/NA	Water	8011	12767

Prep Batch: 12833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-1	FY Treated Eff	Total/NA	Water	8011	
885-11761-2	FY Raw	Total/NA	Water	8011	

Analysis Batch: 13533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-1	FY Treated Eff	Total/NA	Water	8011	12833
885-11761-2	FY Raw	Total/NA	Water	8011	12833

HPLC/IC

Analysis Batch: 12259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-1	FY Treated Eff	Total/NA	Water	300.0	
885-11761-1	FY Treated Eff	Total/NA	Water	300.0	
885-11761-2	FY Raw	Total/NA	Water	300.0	
885-11761-2	FY Raw	Total/NA	Water	300.0	
MB 885-12259/4	Method Blank	Total/NA	Water	300.0	
LCS 885-12259/10	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-12259/3	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-11761-1

HPLC/IC

Analysis Batch: 12260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-1	FY Treated Eff	Total/NA	Water	300.0	
885-11761-2	FY Raw	Total/NA	Water	300.0	
MB 885-12260/20	Method Blank	Total/NA	Water	300.0	
LCS 885-12260/26	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-12260/19	Lab Control Sample	Total/NA	Water	300.0	
885-11761-1 MS	FY Treated Eff	Total/NA	Water	300.0	
885-11761-1 MSD	FY Treated Eff	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 12489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11761-1	FY Treated Eff	Total/NA	Water	2540C	
885-11761-2	FY Raw	Total/NA	Water	2540C	
MB 885-12489/1	Method Blank	Total/NA	Water	2540C	
LCS 885-12489/2	Lab Control Sample	Total/NA	Water	2540C	
885-11761-1 DU	FY Treated Eff	Total/NA	Water	2540C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-11761-1

Client Sample ID: FY Treated Eff

Lab Sample ID: 885-11761-1

Date Collected: 09/12/24 07:28
Matrix: Water
Date Received: 09/12/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	12450	CM	EET ALB	09/20/24 00:50
Total/NA	Analysis	8015M/D		1	12607	AT	EET ALB	09/20/24 05:22
Total/NA	Prep	8011			12833	MB	EET ALB	09/24/24 08:24
Total/NA	Analysis	8011		10	13533	DH	EET ALB	10/03/24 03:24
Total/NA	Prep	3511			12384	KR	EET ALB	09/17/24 10:20
Total/NA	Analysis	8015M/D		1	12379	KR	EET ALB	09/17/24 12:52
Total/NA	Analysis	300.0		1	12259	RC	EET ALB	09/13/24 16:04
Total/NA	Analysis	300.0		1	12260	RC	EET ALB	09/13/24 16:04
Total/NA	Analysis	300.0		20	12259	RC	EET ALB	09/13/24 16:41
Total/NA	Analysis	2540C		1	12489	ES	EET ALB	09/18/24 13:45

Client Sample ID: FY Raw

Lab Sample ID: 885-11761-2

Date Collected: 09/12/24 07:21
Matrix: Water
Date Received: 09/12/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	12450	CM	EET ALB	09/20/24 01:15
Total/NA	Analysis	8260B		5	12987	CM	EET ALB	09/25/24 14:49
Total/NA	Analysis	8015M/D		1	12607	AT	EET ALB	09/20/24 05:44
Total/NA	Prep	8011			12833	MB	EET ALB	09/24/24 11:04
Total/NA	Analysis	8011		100	13533	DH	EET ALB	10/03/24 03:39
Total/NA	Prep	3511			12384	KR	EET ALB	09/17/24 10:20
Total/NA	Analysis	8015M/D		1	12379	KR	EET ALB	09/17/24 13:04
Total/NA	Analysis	300.0		1	12259	RC	EET ALB	09/13/24 16:53
Total/NA	Analysis	300.0		1	12260	RC	EET ALB	09/13/24 16:53
Total/NA	Analysis	300.0		20	12259	RC	EET ALB	09/13/24 17:05
Total/NA	Analysis	2540C		1	12489	ES	EET ALB	09/18/24 13:45

Client Sample ID: FY OX Eff

Lab Sample ID: 885-11761-3

Date Collected: 09/12/24 10:14
Matrix: Air
Date Received: 09/12/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	12300	JP	EET ALB	09/13/24 15:50
Total/NA	Analysis	8021B		1	12301	JP	EET ALB	09/13/24 15:50

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-11761-4

Date Collected: 09/12/24 10:09
Matrix: Air
Date Received: 09/12/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	12300	JP	EET ALB	09/13/24 16:14
Total/NA	Analysis	8021B		50	12301	JP	EET ALB	09/13/24 16:14

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-11761-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-11761-5
Date Collected: 09/12/24 00:00
Matrix: Water
Date Received: 09/12/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	12450	CM	EET ALB	09/20/24 01:39
Total/NA	Prep	8011			12771	DH	EET ALB	09/23/24 12:50
Total/NA	Analysis	8011		1	12774	MB	EET ALB	09/24/24 10:13

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-11761-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-11761-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Chain-of-Custody Record

Client: DBSA

Mailing Address: 6020 Academy Rd NE STE 100, Albuquerque NM 87109

Phone #: 505-822-9400

email or Fax#: Gherrmann@geo-logic.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Former Y Station State lead site

Project #: DB18.1157

Project Manager: Grace Herrmann

Sampler: B. Constand

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Mojo

Cooler Temp (including CF): 0.4 +0.0 = 0.4 (°C)

HALL ENVIRONMI
ANALYSIS LABOR
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-11761 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TPH-GRO 8015B	Sulfate/Chloride 300.0	Nitrate (as N) 300.0	TDS SM 2540C
9/12/24	7:28	GW	FY Treated Eff	Varies	Varies	1		X		X				X			X	X	X	X
	7:21		FY Raw			2		X		X				X			X	X	X	X
	10:14	Air	FY OX Eff			3	X										X			
	10:09		FY Comb Inf			4	X										X			
			Trip Blank			5														

Page 35 of 36

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/12/24	16:05			CDO	9/12/24	16:05
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

10/7/2024

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-11761-1

Login Number: 11761

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 10/23/2024 4:06:00 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-12833-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

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

Authorization



Generated
10/23/2024 4:06:00 PM

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: 885-12833-1 Eurofins Albuquerque

Job Narrative
885-12833-1

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 9/26/2024 3:31 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

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

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

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

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

GC Semi VOA
Method 8011: The following sample was diluted due to abundance of target analytes: FY Raw (885-12833-2). As such, surrogate recoveries are below the calibration range or are not reported, and 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.

HPLC/IC
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: Daniel B. Stephens & Associates Inc.
Job ID: 885-12833-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-12833-1
Date Collected: 09/26/24 11:20
Matrix: Water
Date Received: 09/26/24 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			10/05/24 06:47	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			10/05/24 06:47	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			10/05/24 06:47	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/05/24 06:47	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/05/24 06:47	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/05/24 06:47	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			10/05/24 06:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			10/05/24 06:47	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			10/05/24 06:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/05/24 06:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			10/05/24 06:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			10/05/24 06:47	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			10/05/24 06:47	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			10/05/24 06:47	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			10/05/24 06:47	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/05/24 06:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			10/05/24 06:47	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			10/05/24 06:47	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			10/05/24 06:47	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			10/05/24 06:47	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			10/05/24 06:47	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			10/05/24 06:47	1
2-Butanone	ND		10	2.0	ug/L			10/05/24 06:47	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			10/05/24 06:47	1
2-Hexanone	ND		10	1.8	ug/L			10/05/24 06:47	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			10/05/24 06:47	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			10/05/24 06:47	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			10/05/24 06:47	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			10/05/24 06:47	1
Acetone	ND		10	2.5	ug/L			10/05/24 06:47	1
Benzene	ND		1.0	0.23	ug/L			10/05/24 06:47	1
Bromobenzene	ND		1.0	0.28	ug/L			10/05/24 06:47	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/05/24 06:47	1
Dibromochloromethane	ND		1.0	0.28	ug/L			10/05/24 06:47	1
Bromoform	ND		1.0	0.31	ug/L			10/05/24 06:47	1
Bromomethane	ND		3.0	1.0	ug/L			10/05/24 06:47	1
Carbon disulfide	ND		10	1.0	ug/L			10/05/24 06:47	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			10/05/24 06:47	1
Chlorobenzene	ND		1.0	0.46	ug/L			10/05/24 06:47	1
Chloroethane	ND		2.0	0.38	ug/L			10/05/24 06:47	1
Chloroform	ND		1.0	0.25	ug/L			10/05/24 06:47	1
Chloromethane	ND		3.0	0.41	ug/L			10/05/24 06:47	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/05/24 06:47	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			10/05/24 06:47	1
Dibromomethane	ND		1.0	0.31	ug/L			10/05/24 06:47	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			10/05/24 06:47	1
Ethylbenzene	ND		1.0	0.21	ug/L			10/05/24 06:47	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			10/05/24 06:47	1
Isopropylbenzene	ND		1.0	0.18	ug/L			10/05/24 06:47	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-12833-1

Client Sample ID: FY Treated Eff

Date Collected: 09/26/24 11:20
Date Received: 09/26/24 15:31

Lab Sample ID: 885-12833-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			10/05/24 06:47	1
Methylene Chloride	ND		2.5	1.2	ug/L			10/05/24 06:47	1
n-Butylbenzene	ND		3.0	0.13	ug/L			10/05/24 06:47	1
N-Propylbenzene	ND		1.0	0.11	ug/L			10/05/24 06:47	1
Naphthalene	ND		2.0	0.24	ug/L			10/05/24 06:47	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			10/05/24 06:47	1
Styrene	ND		1.0	0.14	ug/L			10/05/24 06:47	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			10/05/24 06:47	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			10/05/24 06:47	1
Toluene	ND		1.0	0.25	ug/L			10/05/24 06:47	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/05/24 06:47	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			10/05/24 06:47	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			10/05/24 06:47	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			10/05/24 06:47	1
Vinyl chloride	ND		1.0	0.32	ug/L			10/05/24 06:47	1
Xylenes, Total	ND		1.5	0.37	ug/L			10/05/24 06:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*10/05/24 06:47*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/05/24 06:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/05/24 06:47*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/05/24 06:47*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L			10/01/24 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 270*		*10/01/24 16:37*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0095		ug/L		10/04/24 12:28	10/05/24 01:52	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		10/01/24 12:32	10/01/24 15:05	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		10/01/24 12:32	10/01/24 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*46 - 159*	*10/01/24 12:32*	*10/01/24 15:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84**		10	5.0	mg/L			10/17/24 01:11	20
Sulfate	**47**		0.50	0.25	mg/L			10/17/24 01:00	1
Nitrate Nitrite as N	**0.38**	**J**	1.0	0.11	mg/L			10/19/24 02:23	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**440**		50		mg/L			10/03/24 09:27	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-12833-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Raw
Lab Sample ID: 885-12833-2
Date Collected: 09/26/24 11:31
Matrix: Water
Date Received: 09/26/24 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L			10/05/24 07:59	5
1,1,1-Trichloroethane	ND		5.0	0.41	ug/L			10/05/24 07:59	5
1,1,2,2-Tetrachloroethane	ND		10	1.4	ug/L			10/05/24 07:59	5
1,1,2-Trichloroethane	ND		5.0	0.99	ug/L			10/05/24 07:59	5
1,1-Dichloroethane	ND		5.0	1.5	ug/L			10/05/24 07:59	5
1,1-Dichloroethene	ND		5.0	1.0	ug/L			10/05/24 07:59	5
1,1-Dichloropropene	ND		5.0	0.90	ug/L			10/05/24 07:59	5
1,2,3-Trichlorobenzene	ND		5.0	1.2	ug/L			10/05/24 07:59	5
1,2,3-Trichloropropane	ND		10	0.80	ug/L			10/05/24 07:59	5
1,2,4-Trichlorobenzene	ND		5.0	2.0	ug/L			10/05/24 07:59	5
1,2,4-Trimethylbenzene	ND		5.0	0.61	ug/L			10/05/24 07:59	5
1,2-Dibromo-3-Chloropropane	ND		10	2.9	ug/L			10/05/24 07:59	5
1,2-Dibromoethane (EDB)	ND		5.0	1.5	ug/L			10/05/24 07:59	5
1,2-Dichlorobenzene	ND		5.0	0.77	ug/L			10/05/24 07:59	5
1,2-Dichloroethane (EDC)	**96**		5.0	1.5	ug/L			10/05/24 07:59	5
1,2-Dichloropropane	ND		5.0	1.0	ug/L			10/05/24 07:59	5
1,3,5-Trimethylbenzene	**2.4**	**J**	5.0	0.91	ug/L			10/05/24 07:59	5
1,3-Dichlorobenzene	ND		5.0	0.81	ug/L			10/05/24 07:59	5
1,3-Dichloropropane	ND		5.0	0.90	ug/L			10/05/24 07:59	5
1,4-Dichlorobenzene	ND		5.0	0.52	ug/L			10/05/24 07:59	5
1-Methylnaphthalene	ND		20	10	ug/L			10/05/24 07:59	5
2,2-Dichloropropane	ND		10	1.3	ug/L			10/05/24 07:59	5
2-Butanone	ND		50	10	ug/L			10/05/24 07:59	5
2-Chlorotoluene	ND		5.0	0.66	ug/L			10/05/24 07:59	5
2-Hexanone	ND		50	9.0	ug/L			10/05/24 07:59	5
2-Methylnaphthalene	ND		20	10	ug/L			10/05/24 07:59	5
4-Chlorotoluene	ND		5.0	0.67	ug/L			10/05/24 07:59	5
4-Isopropyltoluene	ND		5.0	1.0	ug/L			10/05/24 07:59	5
4-Methyl-2-pentanone	ND		50	7.5	ug/L			10/05/24 07:59	5
Acetone	ND		50	13	ug/L			10/05/24 07:59	5
Benzene	**8.9**		5.0	1.1	ug/L			10/05/24 07:59	5
Bromobenzene	ND		5.0	1.4	ug/L			10/05/24 07:59	5
Bromodichloromethane	ND		5.0	1.0	ug/L			10/05/24 07:59	5
Dibromochloromethane	ND		5.0	1.4	ug/L			10/05/24 07:59	5
Bromoform	ND		5.0	1.6	ug/L			10/05/24 07:59	5
Bromomethane	ND		15	5.0	ug/L			10/05/24 07:59	5
Carbon disulfide	ND		50	5.0	ug/L			10/05/24 07:59	5
Carbon tetrachloride	ND		5.0	0.88	ug/L			10/05/24 07:59	5
Chlorobenzene	ND		5.0	2.3	ug/L			10/05/24 07:59	5
Chloroethane	ND		10	1.9	ug/L			10/05/24 07:59	5
Chloroform	ND		5.0	1.3	ug/L			10/05/24 07:59	5
Chloromethane	ND		15	2.1	ug/L			10/05/24 07:59	5
cis-1,2-Dichloroethene	ND		5.0	1.9	ug/L			10/05/24 07:59	5
cis-1,3-Dichloropropene	ND		5.0	0.58	ug/L			10/05/24 07:59	5
Dibromomethane	ND		5.0	1.5	ug/L			10/05/24 07:59	5
Dichlorodifluoromethane	ND		5.0	1.3	ug/L			10/05/24 07:59	5
Ethylbenzene	ND		5.0	1.1	ug/L			10/05/24 07:59	5
Hexachlorobutadiene	ND		5.0	2.1	ug/L			10/05/24 07:59	5
Isopropylbenzene	ND		5.0	0.91	ug/L			10/05/24 07:59	5

Client Sample ID: FY Raw
Lab Sample ID: 885-12833-2
Date Collected: 09/26/24 11:31
Matrix: Water
Date Received: 09/26/24 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0	2.0	ug/L			10/05/24 07:59	5
Methylene Chloride	ND		13	6.2	ug/L			10/05/24 07:59	5
n-Butylbenzene	ND		15	0.63	ug/L			10/05/24 07:59	5
N-Propylbenzene	ND		5.0	0.55	ug/L			10/05/24 07:59	5
Naphthalene	**1.3**	**J**	10	1.2	ug/L			10/05/24 07:59	5
sec-Butylbenzene	ND		5.0	0.72	ug/L			10/05/24 07:59	5
Styrene	ND		5.0	0.68	ug/L			10/05/24 07:59	5
tert-Butylbenzene	ND		5.0	1.2	ug/L			10/05/24 07:59	5
Tetrachloroethene (PCE)	ND		5.0	0.89	ug/L			10/05/24 07:59	5
Toluene	ND		5.0	1.3	ug/L			10/05/24 07:59	5
trans-1,2-Dichloroethene	ND		5.0	0.97	ug/L			10/05/24 07:59	5
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			10/05/24 07:59	5
Trichloroethene (TCE)	ND		5.0	1.0	ug/L			10/05/24 07:59	5
Trichlorofluoromethane	ND		5.0	0.79	ug/L			10/05/24 07:59	5
Vinyl chloride	ND		5.0	1.6	ug/L			10/05/24 07:59	5
Xylenes, Total	ND		7.5	1.9	ug/L			10/05/24 07:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*10/05/24 07:59*	*5*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/05/24 07:59*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/05/24 07:59*	*5*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/05/24 07:59*	*5*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.17**		0.050		mg/L			10/01/24 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*15 - 270*		*10/01/24 16:58*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.52**	**D**	0.094		ug/L		10/04/24 12:28	10/08/24 01:08	10

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		10/01/24 12:32	10/01/24 15:15	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		10/01/24 12:32	10/01/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*46 - 159*	*10/01/24 12:32*	*10/01/24 15:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96**		10	5.0	mg/L			10/17/24 01:33	20
Sulfate	**47**		10	5.0	mg/L			10/17/24 01:33	20
Nitrate Nitrite as N	**1.2**		1.0	0.11	mg/L			10/19/24 02:33	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**520**		50		mg/L			10/03/24 09:27	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-12833-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY OX Eff
Lab Sample ID: 885-12833-3
Date Collected: 09/26/24 10:47
Matrix: Air
Date Received: 09/26/24 15:31
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	7.9		5.0		ug/L			10/01/24 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 412*		*10/01/24 16:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41		0.10		ug/L			10/01/24 16:12	1
Ethylbenzene	0.15		0.10		ug/L			10/01/24 16:12	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			10/01/24 16:12	1
Toluene	0.47		0.10		ug/L			10/01/24 16:12	1
Xylenes, Total	0.94		0.20		ug/L			10/01/24 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/01/24 16:12*	*1*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-12833-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FYComb Inf
Lab Sample ID: 885-12833-4
Date Collected: 09/26/24 10:55
Matrix: Air
Date Received: 09/26/24 15:31
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	5200		250		ug/L			10/01/24 16:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*15 - 412*		*10/01/24 16:36*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	33		5.0		ug/L			10/01/24 16:36	50
Ethylbenzene	34		5.0		ug/L			10/01/24 16:36	50
Methyl-tert-butyl Ether (MTBE)	ND		13		ug/L			10/01/24 16:36	50
Toluene	230		5.0		ug/L			10/01/24 16:36	50
Xylenes, Total	160		10		ug/L			10/01/24 16:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/01/24 16:36*	*50*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-12833-1

Client Sample ID: FY DTA Eff
Date Collected: 09/26/24 10:51
Date Received: 09/26/24 15:31
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-12833-5
Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L			10/01/24 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 412*		*10/01/24 16:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10		ug/L			10/01/24 16:59	1
Ethylbenzene	ND		0.10		ug/L			10/01/24 16:59	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			10/01/24 16:59	1
Toluene	**0.19**		0.10		ug/L			10/01/24 16:59	1
Xylenes, Total	**0.51**		0.20		ug/L			10/01/24 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/01/24 16:59*	*1*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-12833-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-12833-6
Date Collected: 09/26/24 00:00
Matrix: Water
Date Received: 09/26/24 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			10/05/24 08:24	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			10/05/24 08:24	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			10/05/24 08:24	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/05/24 08:24	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/05/24 08:24	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/05/24 08:24	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			10/05/24 08:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			10/05/24 08:24	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			10/05/24 08:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/05/24 08:24	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			10/05/24 08:24	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			10/05/24 08:24	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			10/05/24 08:24	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			10/05/24 08:24	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			10/05/24 08:24	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/05/24 08:24	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			10/05/24 08:24	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			10/05/24 08:24	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			10/05/24 08:24	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			10/05/24 08:24	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			10/05/24 08:24	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			10/05/24 08:24	1
2-Butanone	ND		10	2.0	ug/L			10/05/24 08:24	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			10/05/24 08:24	1
2-Hexanone	ND		10	1.8	ug/L			10/05/24 08:24	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			10/05/24 08:24	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			10/05/24 08:24	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			10/05/24 08:24	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			10/05/24 08:24	1
Acetone	ND		10	2.5	ug/L			10/05/24 08:24	1
Benzene	ND		1.0	0.23	ug/L			10/05/24 08:24	1
Bromobenzene	ND		1.0	0.28	ug/L			10/05/24 08:24	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/05/24 08:24	1
Dibromochloromethane	ND		1.0	0.28	ug/L			10/05/24 08:24	1
Bromoform	ND		1.0	0.31	ug/L			10/05/24 08:24	1
Bromomethane	ND		3.0	1.0	ug/L			10/05/24 08:24	1
Carbon disulfide	ND		10	1.0	ug/L			10/05/24 08:24	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			10/05/24 08:24	1
Chlorobenzene	ND		1.0	0.46	ug/L			10/05/24 08:24	1
Chloroethane	ND		2.0	0.38	ug/L			10/05/24 08:24	1
Chloroform	ND		1.0	0.25	ug/L			10/05/24 08:24	1
Chloromethane	ND		3.0	0.41	ug/L			10/05/24 08:24	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/05/24 08:24	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			10/05/24 08:24	1
Dibromomethane	ND		1.0	0.31	ug/L			10/05/24 08:24	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			10/05/24 08:24	1
Ethylbenzene	ND		1.0	0.21	ug/L			10/05/24 08:24	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			10/05/24 08:24	1
Isopropylbenzene	ND		1.0	0.18	ug/L			10/05/24 08:24	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-12833-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank **Lab Sample ID: 885-12833-6**
Date Collected: 09/26/24 00:00 **Matrix: Water**
Date Received: 09/26/24 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			10/05/24 08:24	1
Methylene Chloride	ND		2.5	1.2	ug/L			10/05/24 08:24	1
n-Butylbenzene	ND		3.0	0.13	ug/L			10/05/24 08:24	1
N-Propylbenzene	ND		1.0	0.11	ug/L			10/05/24 08:24	1
Naphthalene	ND		2.0	0.24	ug/L			10/05/24 08:24	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			10/05/24 08:24	1
Styrene	ND		1.0	0.14	ug/L			10/05/24 08:24	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			10/05/24 08:24	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			10/05/24 08:24	1
Toluene	ND		1.0	0.25	ug/L			10/05/24 08:24	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/05/24 08:24	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			10/05/24 08:24	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			10/05/24 08:24	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			10/05/24 08:24	1
Vinyl chloride	ND		1.0	0.32	ug/L			10/05/24 08:24	1
Xylenes, Total	ND		1.5	0.37	ug/L			10/05/24 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/05/24 08:24*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/05/24 08:24*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/05/24 08:24*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/05/24 08:24*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0096		ug/L		10/04/24 12:28	10/05/24 02:21	1

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

Lab Sample ID: MB 885-13709/6
Matrix: Water
Analysis Batch: 13709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			10/04/24 17:46	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			10/04/24 17:46	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			10/04/24 17:46	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/04/24 17:46	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/04/24 17:46	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/04/24 17:46	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			10/04/24 17:46	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			10/04/24 17:46	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			10/04/24 17:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/04/24 17:46	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			10/04/24 17:46	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			10/04/24 17:46	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			10/04/24 17:46	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			10/04/24 17:46	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			10/04/24 17:46	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/04/24 17:46	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			10/04/24 17:46	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			10/04/24 17:46	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			10/04/24 17:46	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			10/04/24 17:46	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			10/04/24 17:46	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			10/04/24 17:46	1
2-Butanone	ND		10	2.0	ug/L			10/04/24 17:46	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			10/04/24 17:46	1
2-Hexanone	ND		10	1.8	ug/L			10/04/24 17:46	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			10/04/24 17:46	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			10/04/24 17:46	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			10/04/24 17:46	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			10/04/24 17:46	1
Acetone	ND		10	2.5	ug/L			10/04/24 17:46	1
Benzene	ND		1.0	0.23	ug/L			10/04/24 17:46	1
Bromobenzene	ND		1.0	0.28	ug/L			10/04/24 17:46	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/04/24 17:46	1
Dibromochloromethane	ND		1.0	0.28	ug/L			10/04/24 17:46	1
Bromoform	ND		1.0	0.31	ug/L			10/04/24 17:46	1
Bromomethane	ND		3.0	1.0	ug/L			10/04/24 17:46	1
Carbon disulfide	ND		10	1.0	ug/L			10/04/24 17:46	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			10/04/24 17:46	1
Chlorobenzene	ND		1.0	0.46	ug/L			10/04/24 17:46	1
Chloroethane	ND		2.0	0.38	ug/L			10/04/24 17:46	1
Chloroform	ND		1.0	0.25	ug/L			10/04/24 17:46	1
Chloromethane	ND		3.0	0.41	ug/L			10/04/24 17:46	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/04/24 17:46	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			10/04/24 17:46	1
Dibromomethane	ND		1.0	0.31	ug/L			10/04/24 17:46	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			10/04/24 17:46	1
Ethylbenzene	ND		1.0	0.21	ug/L			10/04/24 17:46	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			10/04/24 17:46	1

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

Lab Sample ID: MB 885-13709/6
Matrix: Water
Analysis Batch: 13709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.18	ug/L			10/04/24 17:46	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			10/04/24 17:46	1
Methylene Chloride	ND		2.5	1.2	ug/L			10/04/24 17:46	1
n-Butylbenzene	ND		3.0	0.13	ug/L			10/04/24 17:46	1
N-Propylbenzene	ND		1.0	0.11	ug/L			10/04/24 17:46	1
Naphthalene	ND		2.0	0.24	ug/L			10/04/24 17:46	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			10/04/24 17:46	1
Styrene	ND		1.0	0.14	ug/L			10/04/24 17:46	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			10/04/24 17:46	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			10/04/24 17:46	1
Toluene	ND		1.0	0.25	ug/L			10/04/24 17:46	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/04/24 17:46	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			10/04/24 17:46	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			10/04/24 17:46	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			10/04/24 17:46	1
Vinyl chloride	ND		1.0	0.32	ug/L			10/04/24 17:46	1
Xylenes, Total	ND		1.5	0.37	ug/L			10/04/24 17:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*10/04/24 17:46*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/04/24 17:46*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/04/24 17:46*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/04/24 17:46*	*1*

Lab Sample ID: MB 885-13709/67
Matrix: Water
Analysis Batch: 13709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			10/05/24 05:34	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			10/05/24 05:34	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			10/05/24 05:34	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/05/24 05:34	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/05/24 05:34	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/05/24 05:34	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			10/05/24 05:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			10/05/24 05:34	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			10/05/24 05:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/05/24 05:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			10/05/24 05:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			10/05/24 05:34	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			10/05/24 05:34	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			10/05/24 05:34	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			10/05/24 05:34	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/05/24 05:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			10/05/24 05:34	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			10/05/24 05:34	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			10/05/24 05:34	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-12833-1

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

Lab Sample ID: MB 885-13709/67
Matrix: Water
Analysis Batch: 13709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			10/05/24 05:34	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			10/05/24 05:34	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			10/05/24 05:34	1
2-Butanone	ND		10	2.0	ug/L			10/05/24 05:34	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			10/05/24 05:34	1
2-Hexanone	ND		10	1.8	ug/L			10/05/24 05:34	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			10/05/24 05:34	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			10/05/24 05:34	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			10/05/24 05:34	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			10/05/24 05:34	1
Acetone	ND		10	2.5	ug/L			10/05/24 05:34	1
Benzene	ND		1.0	0.23	ug/L			10/05/24 05:34	1
Bromobenzene	ND		1.0	0.28	ug/L			10/05/24 05:34	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/05/24 05:34	1
Dibromochloromethane	ND		1.0	0.28	ug/L			10/05/24 05:34	1
Bromoform	ND		1.0	0.31	ug/L			10/05/24 05:34	1
Bromomethane	ND		3.0	1.0	ug/L			10/05/24 05:34	1
Carbon disulfide	ND		10	1.0	ug/L			10/05/24 05:34	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			10/05/24 05:34	1
Chlorobenzene	ND		1.0	0.46	ug/L			10/05/24 05:34	1
Chloroethane	ND		2.0	0.38	ug/L			10/05/24 05:34	1
Chloroform	ND		1.0	0.25	ug/L			10/05/24 05:34	1
Chloromethane	ND		3.0	0.41	ug/L			10/05/24 05:34	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/05/24 05:34	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			10/05/24 05:34	1
Dibromomethane	ND		1.0	0.31	ug/L			10/05/24 05:34	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			10/05/24 05:34	1
Ethylbenzene	ND		1.0	0.21	ug/L			10/05/24 05:34	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			10/05/24 05:34	1
Isopropylbenzene	ND		1.0	0.18	ug/L			10/05/24 05:34	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			10/05/24 05:34	1
Methylene Chloride	ND		2.5	1.2	ug/L			10/05/24 05:34	1
n-Butylbenzene	ND		3.0	0.13	ug/L			10/05/24 05:34	1
N-Propylbenzene	ND		1.0	0.11	ug/L			10/05/24 05:34	1
Naphthalene	ND		2.0	0.24	ug/L			10/05/24 05:34	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			10/05/24 05:34	1
Styrene	ND		1.0	0.14	ug/L			10/05/24 05:34	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			10/05/24 05:34	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			10/05/24 05:34	1
Toluene	ND		1.0	0.25	ug/L			10/05/24 05:34	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/05/24 05:34	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			10/05/24 05:34	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			10/05/24 05:34	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			10/05/24 05:34	1
Vinyl chloride	ND		1.0	0.32	ug/L			10/05/24 05:34	1
Xylenes, Total	ND		1.5	0.37	ug/L			10/05/24 05:34	1

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

Lab Sample ID: MB 885-13709/67
Matrix: Water
Analysis Batch: 13709

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		10/05/24 05:34	1
Toluene-d8 (Surr)	96		70 - 130		10/05/24 05:34	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/05/24 05:34	1
Dibromofluoromethane (Surr)	98		70 - 130		10/05/24 05:34	1

Lab Sample ID: LCS 885-13709/66
Matrix: Water
Analysis Batch: 13709

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	21.1		ug/L		105	70 - 130		
Benzene			20.1	23.2		ug/L		115	70 - 130		
Chlorobenzene			20.1	20.5		ug/L		102	70 - 130		
Toluene			20.2	20.6		ug/L		102	70 - 130		
Trichloroethene (TCE)			20.2	21.6		ug/L		107	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: 885-12833-1 MS
Matrix: Water
Analysis Batch: 13709

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene	ND		20.1	20.9		ug/L		104	70 - 130		
Benzene	ND		20.1	23.3		ug/L		116	70 - 130		
Chlorobenzene	ND		20.1	20.6		ug/L		103	70 - 130		
Toluene	ND		20.2	20.8		ug/L		103	70 - 130		
Trichloroethene (TCE)	ND		20.2	22.0		ug/L		109	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: 885-12833-1 MSD
Matrix: Water
Analysis Batch: 13709

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		20.1	20.2		ug/L		100	70 - 130	4	20
Benzene	ND		20.1	22.9		ug/L		114	70 - 130	2	20
Chlorobenzene	ND		20.1	20.2		ug/L		101	70 - 130	2	20
Toluene	ND		20.2	20.3		ug/L		101	70 - 130	2	20

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

Lab Sample ID: 885-12833-1 MSD
Matrix: Water
Analysis Batch: 13709

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene (TCE)	ND		20.2	21.3		ug/L		105	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-13470/13
Matrix: Air
Analysis Batch: 13470

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L			10/01/24 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 412*		*10/01/24 13:06*	*1*

Lab Sample ID: LCS 885-13470/12
Matrix: Air
Analysis Batch: 13470

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			50.0	46.6		ug/L		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*202*		*15 - 412*

Lab Sample ID: MB 885-13498/3
Matrix: Water
Analysis Batch: 13498

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050		mg/L			10/01/24 16:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*15 - 270*		*10/01/24 16:15*	*1*

Lab Sample ID: LCS 885-13498/2
Matrix: Water
Analysis Batch: 13498

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			0.500	0.479		mg/L		96	70 - 130		

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 885-13498/2
Matrix: Water
Analysis Batch: 13498

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	225		15 - 270

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-13471/13
Matrix: Air
Analysis Batch: 13471

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10		ug/L			10/01/24 13:06	1
Ethylbenzene	ND		0.10		ug/L			10/01/24 13:06	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25		ug/L			10/01/24 13:06	1
Toluene	ND		0.10		ug/L			10/01/24 13:06	1
Xylenes, Total	ND		0.20		ug/L			10/01/24 13:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130		10/01/24 13:06	1

Lab Sample ID: LCS 885-13471/12
Matrix: Air
Analysis Batch: 13471

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.00	2.01		ug/L		101	70 - 130
Ethylbenzene	2.00	1.99		ug/L		100	70 - 130
m&p-Xylene	4.00	4.01		ug/L		100	70 - 130
Methyl-tert-butyl Ether (MTBE)	2.00	1.98		ug/L		99	70 - 130
o-Xylene	2.00	1.96		ug/L		98	70 - 130
Toluene	2.00	1.99		ug/L		99	70 - 130
Xylenes, Total	6.00	5.97		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MRL 885-12834/1-A
Matrix: Water
Analysis Batch: 13127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12834

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.0141	^3+	ug/L		141	60 - 140

Lab Sample ID: MRL 885-12834/1-A
Matrix: Water
Analysis Batch: 13825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12834

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.00961	J	ug/L		96	60 - 140

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-13696/3-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 13724
Prep Batch: 13696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010		ug/L		10/04/24 12:27	10/04/24 20:33	1

Lab Sample ID: MB 885-13696/3-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 13825
Prep Batch: 13696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010		ug/L		10/04/24 12:27	10/07/24 23:56	1

Lab Sample ID: LCS 885-13696/4-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 13724
Prep Batch: 13696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.0921		ug/L		92	70 - 130

Lab Sample ID: LCS 885-13696/4-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 13825
Prep Batch: 13696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.0928		ug/L		93	70 - 130

Lab Sample ID: LCSD 885-13696/5-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 13724
Prep Batch: 13696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.0965		ug/L		96	70 - 130	5	20

Lab Sample ID: LCSD 885-13696/5-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 13825
Prep Batch: 13696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.0993		ug/L		99	70 - 130	7	20

Lab Sample ID: MRL 885-13696/1-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 13724
Prep Batch: 13696

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	ND		ug/L		67	60 - 140

Lab Sample ID: MRL 885-13696/1-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 13825
Prep Batch: 13696

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.0113		ug/L		113	60 - 140

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-13378/1-A
Matrix: Water
Analysis Batch: 13358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/L		10/01/24 12:32	10/01/24 14:33	1
Motor Oil Range Organics [C28-C40]	ND		5.0		mg/L		10/01/24 12:32	10/01/24 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*46 - 159*	*10/01/24 12:32*	*10/01/24 14:33*	*1*

Lab Sample ID: LCS 885-13378/2-A
Matrix: Water
Analysis Batch: 13358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2.50	2.19		mg/L		87	57 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*110*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-14406/4
Matrix: Water
Analysis Batch: 14406

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			10/16/24 23:11	1
Sulfate	ND		0.50	0.25	mg/L			10/16/24 23:11	1

Lab Sample ID: LCS 885-14406/5
Matrix: Water
Analysis Batch: 14406

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.92		mg/L		98	90 - 110
Sulfate	10.0	9.51		mg/L		95	90 - 110

Lab Sample ID: MRL 885-14406/3
Matrix: Water
Analysis Batch: 14406

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.529		mg/L		106	50 - 150
Sulfate	0.500	0.503		mg/L		101	50 - 150

Lab Sample ID: MB 885-14545/38
Matrix: Water
Analysis Batch: 14545

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	0.022	mg/L			10/18/24 15:35	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-14545/97
Matrix: Water
Analysis Batch: 14545

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	0.022	mg/L			10/19/24 01:34	1

Lab Sample ID: LCS 885-14545/39
Matrix: Water
Analysis Batch: 14545

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.54		mg/L		102	90 - 110
Nitrite as N	1.00	0.943		mg/L		94	90 - 110

Lab Sample ID: LCS 885-14545/98
Matrix: Water
Analysis Batch: 14545

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.54		mg/L		102	90 - 110
Nitrite as N	1.00	0.953		mg/L		95	90 - 110

Lab Sample ID: MRL 885-14545/37
Matrix: Water
Analysis Batch: 14545

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.101		mg/L		101	50 - 150
Nitrite as N	0.100	0.0972	J	mg/L		97	50 - 150

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-13569/1
Matrix: Water
Analysis Batch: 13569

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50		mg/L			10/03/24 09:27	1

Lab Sample ID: LCS 885-13569/2
Matrix: Water
Analysis Batch: 13569

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1010		mg/L		101	80 - 120

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-12833-1

GC/MS VOA

Analysis Batch: 13709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-1	FY Treated Eff	Total/NA	Water	8260B	
885-12833-2	FY Raw	Total/NA	Water	8260B	
885-12833-6	Trip Blank	Total/NA	Water	8260B	
MB 885-13709/6	Method Blank	Total/NA	Water	8260B	
MB 885-13709/67	Method Blank	Total/NA	Water	8260B	
LCS 885-13709/66	Lab Control Sample	Total/NA	Water	8260B	
885-12833-1 MS	FY Treated Eff	Total/NA	Water	8260B	
885-12833-1 MSD	FY Treated Eff	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 13470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-3	FY OX Eff	Total/NA	Air	8015M/D	
885-12833-4	FYComb Inf	Total/NA	Air	8015M/D	
885-12833-5	FY DTA Eff	Total/NA	Air	8015M/D	
MB 885-13470/13	Method Blank	Total/NA	Air	8015M/D	
LCS 885-13470/12	Lab Control Sample	Total/NA	Air	8015M/D	

Analysis Batch: 13471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-3	FY OX Eff	Total/NA	Air	8021B	
885-12833-4	FYComb Inf	Total/NA	Air	8021B	
885-12833-5	FY DTA Eff	Total/NA	Air	8021B	
MB 885-13471/13	Method Blank	Total/NA	Air	8021B	
LCS 885-13471/12	Lab Control Sample	Total/NA	Air	8021B	

Analysis Batch: 13498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-1	FY Treated Eff	Total/NA	Water	8015M/D	
885-12833-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-13498/3	Method Blank	Total/NA	Water	8015M/D	
LCS 885-13498/2	Lab Control Sample	Total/NA	Water	8015M/D	

GC Semi VOA

Prep Batch: 12834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 885-12834/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 13127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 885-12834/1-A	Lab Control Sample	Total/NA	Water	8011	12834

Analysis Batch: 13358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-1	FY Treated Eff	Total/NA	Water	8015M/D	13378
885-12833-2	FY Raw	Total/NA	Water	8015M/D	13378
MB 885-13378/1-A	Method Blank	Total/NA	Water	8015M/D	13378
LCS 885-13378/2-A	Lab Control Sample	Total/NA	Water	8015M/D	13378

GC Semi VOA

Prep Batch: 13378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-1	FY Treated Eff	Total/NA	Water	3511	
885-12833-2	FY Raw	Total/NA	Water	3511	
MB 885-13378/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-13378/2-A	Lab Control Sample	Total/NA	Water	3511	

Prep Batch: 13696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-1	FY Treated Eff	Total/NA	Water	8011	
885-12833-2	FY Raw	Total/NA	Water	8011	
885-12833-6	Trip Blank	Total/NA	Water	8011	
MB 885-13696/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-13696/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-13696/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-13696/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 13724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-1	FY Treated Eff	Total/NA	Water	8011	13696
885-12833-6	Trip Blank	Total/NA	Water	8011	13696
MB 885-13696/3-A	Method Blank	Total/NA	Water	8011	13696
LCS 885-13696/4-A	Lab Control Sample	Total/NA	Water	8011	13696
LCSD 885-13696/5-A	Lab Control Sample Dup	Total/NA	Water	8011	13696
MRL 885-13696/1-A	Lab Control Sample	Total/NA	Water	8011	13696

Analysis Batch: 13825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-2	FY Raw	Total/NA	Water	8011	13696
MB 885-13696/3-A	Method Blank	Total/NA	Water	8011	13696
LCS 885-13696/4-A	Lab Control Sample	Total/NA	Water	8011	13696
LCSD 885-13696/5-A	Lab Control Sample Dup	Total/NA	Water	8011	13696
MRL 885-12834/1-A	Lab Control Sample	Total/NA	Water	8011	12834
MRL 885-13696/1-A	Lab Control Sample	Total/NA	Water	8011	13696

HPLC/IC

Analysis Batch: 14406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-1	FY Treated Eff	Total/NA	Water	300.0	
885-12833-1	FY Treated Eff	Total/NA	Water	300.0	
885-12833-2	FY Raw	Total/NA	Water	300.0	
MB 885-14406/4	Method Blank	Total/NA	Water	300.0	
LCS 885-14406/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14406/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 14545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-1	FY Treated Eff	Total/NA	Water	300.0	
885-12833-2	FY Raw	Total/NA	Water	300.0	
MB 885-14545/38	Method Blank	Total/NA	Water	300.0	
MB 885-14545/97	Method Blank	Total/NA	Water	300.0	
LCS 885-14545/39	Lab Control Sample	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 14545 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-14545/98	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14545/37	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 13569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12833-1	FY Treated Eff	Total/NA	Water	2540C	
885-12833-2	FY Raw	Total/NA	Water	2540C	
MB 885-13569/1	Method Blank	Total/NA	Water	2540C	
LCS 885-13569/2	Lab Control Sample	Total/NA	Water	2540C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-12833-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-12833-1
Date Collected: 09/26/24 11:20
Matrix: Water
Date Received: 09/26/24 15:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	13709	CM	EET ALB	10/05/24 06:47
Total/NA	Analysis	8015M/D		1	13498	AT	EET ALB	10/01/24 16:37
Total/NA	Prep	8011			13696	DH	EET ALB	10/04/24 12:28
Total/NA	Analysis	8011		1	13724	MB	EET ALB	10/05/24 01:52
Total/NA	Prep	3511			13378	EM	EET ALB	10/01/24 12:32
Total/NA	Analysis	8015M/D		1	13358	EM	EET ALB	10/01/24 15:05
Total/NA	Analysis	300.0		1	14406	JT	EET ALB	10/17/24 01:00
Total/NA	Analysis	300.0		20	14406	JT	EET ALB	10/17/24 01:11
Total/NA	Analysis	300.0		5	14545	RC	EET ALB	10/19/24 02:23
Total/NA	Analysis	2540C		1	13569	ES	EET ALB	10/03/24 09:27

Client Sample ID: FY Raw
Lab Sample ID: 885-12833-2
Date Collected: 09/26/24 11:31
Matrix: Water
Date Received: 09/26/24 15:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	13709	CM	EET ALB	10/05/24 07:59
Total/NA	Analysis	8015M/D		1	13498	AT	EET ALB	10/01/24 16:58
Total/NA	Prep	8011			13696	DH	EET ALB	10/04/24 12:28
Total/NA	Analysis	8011		10	13825	MB	EET ALB	10/08/24 01:08
Total/NA	Prep	3511			13378	EM	EET ALB	10/01/24 12:32
Total/NA	Analysis	8015M/D		1	13358	EM	EET ALB	10/01/24 15:15
Total/NA	Analysis	300.0		20	14406	JT	EET ALB	10/17/24 01:33
Total/NA	Analysis	300.0		5	14545	RC	EET ALB	10/19/24 02:33
Total/NA	Analysis	2540C		1	13569	ES	EET ALB	10/03/24 09:27

Client Sample ID: FY OX Eff
Lab Sample ID: 885-12833-3
Date Collected: 09/26/24 10:47
Matrix: Air
Date Received: 09/26/24 15:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	13470	JP	EET ALB	10/01/24 16:12
Total/NA	Analysis	8021B		1	13471	JP	EET ALB	10/01/24 16:12

Client Sample ID: FYComb Inf
Lab Sample ID: 885-12833-4
Date Collected: 09/26/24 10:55
Matrix: Air
Date Received: 09/26/24 15:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	13470	JP	EET ALB	10/01/24 16:36
Total/NA	Analysis	8021B		50	13471	JP	EET ALB	10/01/24 16:36

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-12833-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY DTA Eff
Lab Sample ID: 885-12833-5
Date Collected: 09/26/24 10:51
Matrix: Air
Date Received: 09/26/24 15:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	13470	JP	EET ALB	10/01/24 16:59
Total/NA	Analysis	8021B		1	13471	JP	EET ALB	10/01/24 16:59

Client Sample ID: Trip Blank
Lab Sample ID: 885-12833-6
Date Collected: 09/26/24 00:00
Matrix: Water
Date Received: 09/26/24 15:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	13709	CM	EET ALB	10/05/24 08:24
Total/NA	Prep	8011			13696	DH	EET ALB	10/04/24 12:28
Total/NA	Analysis	8011		1	13724	MB	EET ALB	10/05/24 02:21

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-12833-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-12833-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Chain-of-Custody Record

Client: **Daniel B Stephens & Associates**

Mailing Address: **6020 Academy Rd NE, STE 100**
Albuquerque, NM 87109

Phone #: **505-822-9400**

email or Fax#: **gherrmann@geo-logic.com**

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ **Rush**_____

Project Name:
Former Y Station State Lead Site

Project #:
DB18.1157

Project Manager:
Grace Herrmann

Sampler: *B. Constand*

On Ice: ☑ Yes ☐ No

# of Coolers: 1 mojo

Cooler Temp(including CF): 4.5-0.4=4.1°C

HALL ENVIRONMENTAL ANALYSIS LABO

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87

Tel. 505-345-3975 Fax 505-345-4107

885-12833 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
09/26/24	11:20	H_2O	FY Treated Eff	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4	1	X	X	X	X	X	X		
	11:31	H_2O	FY Raw	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4	2	X	X	X	X	X	X		
	10:47	Air	FY OX Eff	1-Tedlar	None	3							X	X
	10:55	Air	FY Comb Inf	1-Tedlar	None	4							X	X
	10:51	Air	FY DTA Eff	1-Tedlar	None	5							X	X
			Trip Blank			6								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/26/24	15:31		Sarah CDO		9-26-24	1531
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:
Tedlar Temp: 28.0 - 0.4 = 27.6°C
mojo

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-12833-1

Login Number: 12833

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 10/24/2024 2:19:00 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-13464-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

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

Authorization



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10/24/2024 2:19:00 PM

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: 885-13464-1 Eurofins Albuquerque

Job Narrative
885-13464-1

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 10/9/2024 9:33 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 Field Sampler was not listed on the Chain of Custody.

The Field Sampler was not listed on the Chain of Custody.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 885-14242 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: Sample vial originally labeled as FY Treated Eff then crossed out and labeled FY Raw

FY Raw (885-13464-2)

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

Gasoline Range Organics
Method 8015D_GRO: Sample vial originally labeled as FY Treated Eff then crossed out and labeled FY Raw

FY Raw (885-13464-2)

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

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

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

HPLC/IC
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: Daniel B. Stephens & Associates Inc.
Job ID: 885-13464-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-13464-1
Date Collected: 10/07/24 15:45
Matrix: Water
Date Received: 10/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			10/14/24 16:26	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			10/14/24 16:26	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			10/14/24 16:26	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/14/24 16:26	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 16:26	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/14/24 16:26	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			10/14/24 16:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			10/14/24 16:26	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			10/14/24 16:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/14/24 16:26	1
1,2,4-Trimethylbenzene	**5.0**		1.0	0.12	ug/L			10/14/24 16:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			10/14/24 16:26	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			10/14/24 16:26	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			10/14/24 16:26	1
1,2-Dichloroethane (EDC)	**86**		1.0	0.30	ug/L			10/14/24 16:26	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/14/24 16:26	1
1,3,5-Trimethylbenzene	**10**		1.0	0.18	ug/L			10/14/24 16:26	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			10/14/24 16:26	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			10/14/24 16:26	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			10/14/24 16:26	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			10/14/24 16:26	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			10/14/24 16:26	1
2-Butanone	ND		10	2.0	ug/L			10/14/24 16:26	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			10/14/24 16:26	1
2-Hexanone	ND		10	1.8	ug/L			10/14/24 16:26	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			10/14/24 16:26	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			10/14/24 16:26	1
4-Isopropyltoluene	**0.29**	**J**	1.0	0.20	ug/L			10/14/24 16:26	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			10/14/24 16:26	1
Acetone	ND		10	2.5	ug/L			10/14/24 16:26	1
Benzene	**7.6**		1.0	0.23	ug/L			10/14/24 16:26	1
Bromobenzene	ND		1.0	0.28	ug/L			10/14/24 16:26	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/14/24 16:26	1
Dibromochloromethane	ND		1.0	0.28	ug/L			10/14/24 16:26	1
Bromoform	ND		1.0	0.31	ug/L			10/14/24 16:26	1
Bromomethane	ND		3.0	1.0	ug/L			10/14/24 16:26	1
Carbon disulfide	ND		10	1.0	ug/L			10/14/24 16:26	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			10/14/24 16:26	1
Chlorobenzene	ND		1.0	0.46	ug/L			10/14/24 16:26	1
Chloroethane	ND		2.0	0.38	ug/L			10/14/24 16:26	1
Chloroform	ND		1.0	0.25	ug/L			10/14/24 16:26	1
Chloromethane	ND		3.0	0.41	ug/L			10/14/24 16:26	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/14/24 16:26	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			10/14/24 16:26	1
Dibromomethane	ND		1.0	0.31	ug/L			10/14/24 16:26	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			10/14/24 16:26	1
Ethylbenzene	**0.60**	**J**	1.0	0.21	ug/L			10/14/24 16:26	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			10/14/24 16:26	1
Isopropylbenzene	**0.80**	**J**	1.0	0.18	ug/L			10/14/24 16:26	1

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-13464-1
Date Collected: 10/07/24 15:45
Matrix: Water
Date Received: 10/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			10/14/24 16:26	1
Methylene Chloride	ND		2.5	1.2	ug/L			10/14/24 16:26	1
n-Butylbenzene	ND		3.0	0.13	ug/L			10/14/24 16:26	1
N-Propylbenzene	**0.27**	**J**	1.0	0.11	ug/L			10/14/24 16:26	1
Naphthalene	**1.3**	**J**	2.0	0.24	ug/L			10/14/24 16:26	1
sec-Butylbenzene	**0.16**	**J**	1.0	0.14	ug/L			10/14/24 16:26	1
Styrene	ND		1.0	0.14	ug/L			10/14/24 16:26	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			10/14/24 16:26	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			10/14/24 16:26	1
Toluene	ND		1.0	0.25	ug/L			10/14/24 16:26	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/14/24 16:26	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			10/14/24 16:26	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			10/14/24 16:26	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			10/14/24 16:26	1
Vinyl chloride	ND		1.0	0.32	ug/L			10/14/24 16:26	1
Xylenes, Total	**15**		1.5	0.37	ug/L			10/14/24 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/14/24 16:26*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/14/24 16:26*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/14/24 16:26*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/14/24 16:26*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.41**		0.050	0.013	mg/L			10/12/24 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*15 - 270*		*10/12/24 00:12*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.051**		0.0096	0.0077	ug/L		10/11/24 10:39	10/15/24 00:33	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		10/11/24 11:11	10/11/24 14:39	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		10/11/24 11:11	10/11/24 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*46 - 159*	*10/11/24 11:11*	*10/11/24 14:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93**		10	5.0	mg/L			10/09/24 17:28	20
Sulfate	**50**		10	5.0	mg/L			10/09/24 17:28	20
Nitrate Nitrite as N	**0.34**	**J**	1.0	0.11	mg/L			10/09/24 21:45	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**530**		50	25	mg/L			10/10/24 14:00	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-13464-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Raw
Lab Sample ID: 885-13464-2
Date Collected: 10/07/24 15:35
Matrix: Water
Date Received: 10/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			10/14/24 16:54	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			10/14/24 16:54	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			10/14/24 16:54	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/14/24 16:54	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 16:54	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/14/24 16:54	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			10/14/24 16:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			10/14/24 16:54	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			10/14/24 16:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/14/24 16:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			10/14/24 16:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			10/14/24 16:54	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			10/14/24 16:54	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			10/14/24 16:54	1
1,2-Dichloroethane (EDC)	**0.30**	**J**	1.0	0.30	ug/L			10/14/24 16:54	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/14/24 16:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			10/14/24 16:54	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			10/14/24 16:54	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			10/14/24 16:54	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			10/14/24 16:54	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			10/14/24 16:54	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			10/14/24 16:54	1
2-Butanone	ND		10	2.0	ug/L			10/14/24 16:54	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			10/14/24 16:54	1
2-Hexanone	ND		10	1.8	ug/L			10/14/24 16:54	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			10/14/24 16:54	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			10/14/24 16:54	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			10/14/24 16:54	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			10/14/24 16:54	1
Acetone	ND		10	2.5	ug/L			10/14/24 16:54	1
Benzene	ND		1.0	0.23	ug/L			10/14/24 16:54	1
Bromobenzene	ND		1.0	0.28	ug/L			10/14/24 16:54	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/14/24 16:54	1
Dibromochloromethane	ND		1.0	0.28	ug/L			10/14/24 16:54	1
Bromoform	ND		1.0	0.31	ug/L			10/14/24 16:54	1
Bromomethane	ND		3.0	1.0	ug/L			10/14/24 16:54	1
Carbon disulfide	ND		10	1.0	ug/L			10/14/24 16:54	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			10/14/24 16:54	1
Chlorobenzene	ND		1.0	0.46	ug/L			10/14/24 16:54	1
Chloroethane	ND		2.0	0.38	ug/L			10/14/24 16:54	1
Chloroform	ND		1.0	0.25	ug/L			10/14/24 16:54	1
Chloromethane	ND		3.0	0.41	ug/L			10/14/24 16:54	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/14/24 16:54	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			10/14/24 16:54	1
Dibromomethane	ND		1.0	0.31	ug/L			10/14/24 16:54	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			10/14/24 16:54	1
Ethylbenzene	ND		1.0	0.21	ug/L			10/14/24 16:54	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			10/14/24 16:54	1
Isopropylbenzene	ND		1.0	0.18	ug/L			10/14/24 16:54	1

Client Sample ID: FY Raw
Lab Sample ID: 885-13464-2
Date Collected: 10/07/24 15:35
Matrix: Water
Date Received: 10/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			10/14/24 16:54	1
Methylene Chloride	ND		2.5	1.2	ug/L			10/14/24 16:54	1
n-Butylbenzene	ND		3.0	0.13	ug/L			10/14/24 16:54	1
N-Propylbenzene	ND		1.0	0.11	ug/L			10/14/24 16:54	1
Naphthalene	ND		2.0	0.24	ug/L			10/14/24 16:54	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			10/14/24 16:54	1
Styrene	ND		1.0	0.14	ug/L			10/14/24 16:54	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			10/14/24 16:54	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			10/14/24 16:54	1
Toluene	ND		1.0	0.25	ug/L			10/14/24 16:54	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/14/24 16:54	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			10/14/24 16:54	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			10/14/24 16:54	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			10/14/24 16:54	1
Vinyl chloride	ND		1.0	0.32	ug/L			10/14/24 16:54	1
Xylenes, Total	ND		1.5	0.37	ug/L			10/14/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/14/24 16:54*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/14/24 16:54*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/14/24 16:54*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/14/24 16:54*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050	0.013	mg/L			10/12/24 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 270*		*10/12/24 00:36*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0095	0.0076	ug/L		10/11/24 10:39	10/15/24 00:48	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		10/11/24 11:11	10/11/24 14:51	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		10/11/24 11:11	10/11/24 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*46 - 159*	*10/11/24 11:11*	*10/11/24 14:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86**		10	5.0	mg/L			10/09/24 17:53	20
Sulfate	**46**		10	5.0	mg/L			10/09/24 17:53	20
Nitrate Nitrite as N	**0.32**	**J**	1.0	0.11	mg/L			10/09/24 21:58	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**470**		50	25	mg/L			10/10/24 14:00	1

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

Lab Sample ID: MB 885-14242/7
Matrix: Water
Analysis Batch: 14242

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			10/14/24 15:02	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			10/14/24 15:02	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			10/14/24 15:02	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/14/24 15:02	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 15:02	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/14/24 15:02	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			10/14/24 15:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			10/14/24 15:02	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			10/14/24 15:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/14/24 15:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			10/14/24 15:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			10/14/24 15:02	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			10/14/24 15:02	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			10/14/24 15:02	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			10/14/24 15:02	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/14/24 15:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			10/14/24 15:02	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			10/14/24 15:02	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			10/14/24 15:02	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			10/14/24 15:02	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			10/14/24 15:02	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			10/14/24 15:02	1
2-Butanone	ND		10	2.0	ug/L			10/14/24 15:02	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			10/14/24 15:02	1
2-Hexanone	ND		10	1.8	ug/L			10/14/24 15:02	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			10/14/24 15:02	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			10/14/24 15:02	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			10/14/24 15:02	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			10/14/24 15:02	1
Acetone	ND		10	2.5	ug/L			10/14/24 15:02	1
Benzene	ND		1.0	0.23	ug/L			10/14/24 15:02	1
Bromobenzene	ND		1.0	0.28	ug/L			10/14/24 15:02	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/14/24 15:02	1
Dibromochloromethane	ND		1.0	0.28	ug/L			10/14/24 15:02	1
Bromoform	ND		1.0	0.31	ug/L			10/14/24 15:02	1
Bromomethane	ND		3.0	1.0	ug/L			10/14/24 15:02	1
Carbon disulfide	ND		10	1.0	ug/L			10/14/24 15:02	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			10/14/24 15:02	1
Chlorobenzene	ND		1.0	0.46	ug/L			10/14/24 15:02	1
Chloroethane	ND		2.0	0.38	ug/L			10/14/24 15:02	1
Chloroform	ND		1.0	0.25	ug/L			10/14/24 15:02	1
Chloromethane	ND		3.0	0.41	ug/L			10/14/24 15:02	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/14/24 15:02	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			10/14/24 15:02	1
Dibromomethane	ND		1.0	0.31	ug/L			10/14/24 15:02	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			10/14/24 15:02	1
Ethylbenzene	ND		1.0	0.21	ug/L			10/14/24 15:02	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			10/14/24 15:02	1

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

Lab Sample ID: MB 885-14242/7
Matrix: Water
Analysis Batch: 14242

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.18	ug/L			10/14/24 15:02	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			10/14/24 15:02	1
Methylene Chloride	ND		2.5	1.2	ug/L			10/14/24 15:02	1
n-Butylbenzene	ND		3.0	0.13	ug/L			10/14/24 15:02	1
N-Propylbenzene	ND		1.0	0.11	ug/L			10/14/24 15:02	1
Naphthalene	ND		2.0	0.24	ug/L			10/14/24 15:02	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			10/14/24 15:02	1
Styrene	ND		1.0	0.14	ug/L			10/14/24 15:02	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			10/14/24 15:02	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			10/14/24 15:02	1
Toluene	ND		1.0	0.25	ug/L			10/14/24 15:02	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/14/24 15:02	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			10/14/24 15:02	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			10/14/24 15:02	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			10/14/24 15:02	1
Vinyl chloride	ND		1.0	0.32	ug/L			10/14/24 15:02	1
Xylenes, Total	ND		1.5	0.37	ug/L			10/14/24 15:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/14/24 15:02*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/14/24 15:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/14/24 15:02*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/14/24 15:02*	*1*

Lab Sample ID: LCS 885-14242/6
Matrix: Water
Analysis Batch: 14242

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	20.5		ug/L		102	70 - 130		
Benzene			20.1	20.8		ug/L		104	70 - 130		
Chlorobenzene			20.1	21.8		ug/L		109	70 - 130		
Toluene			20.2	21.7		ug/L		108	70 - 130		
Trichloroethene (TCE)			20.2	19.9		ug/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-14209/13
Matrix: Water
Analysis Batch: 14209

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050	0.013	mg/L			10/11/24 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*15 - 270*		*10/11/24 13:16*	*1*

Lab Sample ID: LCS 885-14209/12
Matrix: Water
Analysis Batch: 14209

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			0.500	0.505		mg/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*214*		*15 - 270*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-14124/3-A
Matrix: Water
Analysis Batch: 14258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		10/11/24 10:39	10/15/24 00:05	1

Lab Sample ID: LCS 885-14124/4-A
Matrix: Water
Analysis Batch: 14258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14124

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.100	0.0880		ug/L		88	70 - 130		

Lab Sample ID: MRL 885-14124/1-A
Matrix: Water
Analysis Batch: 14258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14124

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.0100	0.00938	J	ug/L		94	60 - 140		

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-14129/1-A
Matrix: Water
Analysis Batch: 14128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14129

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		10/11/24 11:11	10/11/24 13:39	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		10/11/24 11:11	10/11/24 13:39	1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-14129/1-A
Matrix: Water
Analysis Batch: 14128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14129

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*106*		*46 - 159*	*10/11/24 11:11*	*10/11/24 13:39*	*1*

Lab Sample ID: LCS 885-14129/2-A
Matrix: Water
Analysis Batch: 14128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2.50	2.28		mg/L		91	57 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*105*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-14056/4
Matrix: Water
Analysis Batch: 14056

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			10/09/24 11:14	1
Sulfate	ND		0.50	0.25	mg/L			10/09/24 11:14	1

Lab Sample ID: LCS 885-14056/5
Matrix: Water
Analysis Batch: 14056

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.94		mg/L		99	90 - 110
Sulfate	10.0	9.55		mg/L		95	90 - 110

Lab Sample ID: MRL 885-14056/3
Matrix: Water
Analysis Batch: 14056

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.532		mg/L		106	50 - 150
Sulfate	0.500	0.497	J	mg/L		99	50 - 150

Lab Sample ID: MB 885-14057/4
Matrix: Water
Analysis Batch: 14057

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	0.022	mg/L			10/09/24 11:14	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-14057/5
Matrix: Water
Analysis Batch: 14057

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.56		mg/L		103	90 - 110
Nitrite as N	1.00	0.969		mg/L		97	90 - 110

Lab Sample ID: MRL 885-14057/3
Matrix: Water
Analysis Batch: 14057

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.104		mg/L		104	50 - 150
Nitrite as N	0.100	0.108		mg/L		108	50 - 150

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-14076/1
Matrix: Water
Analysis Batch: 14076

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	25	mg/L			10/10/24 14:00	1

Lab Sample ID: LCS 885-14076/2
Matrix: Water
Analysis Batch: 14076

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	983		mg/L		98	80 - 120

GC/MS VOA

Analysis Batch: 14242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13464-1	FY Treated Eff	Total/NA	Water	8260B	
885-13464-2	FY Raw	Total/NA	Water	8260B	
MB 885-14242/7	Method Blank	Total/NA	Water	8260B	
LCS 885-14242/6	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 14209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13464-1	FY Treated Eff	Total/NA	Water	8015M/D	
885-13464-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-14209/13	Method Blank	Total/NA	Water	8015M/D	
LCS 885-14209/12	Lab Control Sample	Total/NA	Water	8015M/D	

GC Semi VOA

Prep Batch: 14124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13464-1	FY Treated Eff	Total/NA	Water	8011	
885-13464-2	FY Raw	Total/NA	Water	8011	
MB 885-14124/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-14124/4-A	Lab Control Sample	Total/NA	Water	8011	
MRL 885-14124/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 14128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13464-1	FY Treated Eff	Total/NA	Water	8015M/D	14129
885-13464-2	FY Raw	Total/NA	Water	8015M/D	14129
MB 885-14129/1-A	Method Blank	Total/NA	Water	8015M/D	14129
LCS 885-14129/2-A	Lab Control Sample	Total/NA	Water	8015M/D	14129

Prep Batch: 14129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13464-1	FY Treated Eff	Total/NA	Water	3511	
885-13464-2	FY Raw	Total/NA	Water	3511	
MB 885-14129/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-14129/2-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 14258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13464-1	FY Treated Eff	Total/NA	Water	8011	14124
885-13464-2	FY Raw	Total/NA	Water	8011	14124
MB 885-14124/3-A	Method Blank	Total/NA	Water	8011	14124
LCS 885-14124/4-A	Lab Control Sample	Total/NA	Water	8011	14124
MRL 885-14124/1-A	Lab Control Sample	Total/NA	Water	8011	14124

HPLC/IC

Analysis Batch: 14056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13464-1	FY Treated Eff	Total/NA	Water	300.0	
885-13464-2	FY Raw	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 14056 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-14056/4	Method Blank	Total/NA	Water	300.0	
LCS 885-14056/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14056/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 14057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13464-1	FY Treated Eff	Total/NA	Water	300.0	
885-13464-2	FY Raw	Total/NA	Water	300.0	
MB 885-14057/4	Method Blank	Total/NA	Water	300.0	
LCS 885-14057/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14057/3	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 14076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13464-1	FY Treated Eff	Total/NA	Water	2540C	
885-13464-2	FY Raw	Total/NA	Water	2540C	
MB 885-14076/1	Method Blank	Total/NA	Water	2540C	
LCS 885-14076/2	Lab Control Sample	Total/NA	Water	2540C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-13464-1

Client Sample ID: FY Treated Eff

Lab Sample ID: 885-13464-1

Date Collected: 10/07/24 15:45
Matrix: Water
Date Received: 10/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	14242	RA	EET ALB	10/14/24 16:26
Total/NA	Analysis	8015M/D		1	14209	JP	EET ALB	10/12/24 00:12
Total/NA	Prep	8011			14124	DH	EET ALB	10/11/24 10:39
Total/NA	Analysis	8011		1	14258	DH	EET ALB	10/15/24 00:33
Total/NA	Prep	3511			14129	DH	EET ALB	10/11/24 11:11
Total/NA	Analysis	8015M/D		1	14128	EM	EET ALB	10/11/24 14:39
Total/NA	Analysis	300.0		20	14056	RC	EET ALB	10/09/24 17:28
Total/NA	Analysis	300.0		5	14057	RC	EET ALB	10/09/24 21:45
Total/NA	Analysis	2540C		1	14076	KS	EET ALB	10/10/24 14:00

Client Sample ID: FY Raw

Lab Sample ID: 885-13464-2

Date Collected: 10/07/24 15:35
Matrix: Water
Date Received: 10/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	14242	RA	EET ALB	10/14/24 16:54
Total/NA	Analysis	8015M/D		1	14209	JP	EET ALB	10/12/24 00:36
Total/NA	Prep	8011			14124	DH	EET ALB	10/11/24 10:39
Total/NA	Analysis	8011		1	14258	DH	EET ALB	10/15/24 00:48
Total/NA	Prep	3511			14129	DH	EET ALB	10/11/24 11:11
Total/NA	Analysis	8015M/D		1	14128	EM	EET ALB	10/11/24 14:51
Total/NA	Analysis	300.0		20	14056	RC	EET ALB	10/09/24 17:53
Total/NA	Analysis	300.0		5	14057	RC	EET ALB	10/09/24 21:58
Total/NA	Analysis	2540C		1	14076	KS	EET ALB	10/10/24 14:00

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-13464-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-13464-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2-Dibromoethane (EDB)

Chain-of-Custody Record

Client: **Daniel B Stephens & Associates**

Mailing Address: **6020 Academy Rd NE, STE 100**
Albuquerque, NM 87109

Phone #: **505-822-9400**

email or Fax#: **gherrmann@geo-logic.com**

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
Former Y Station State Lead Site

Project #:
DB18.1157

Project Manager:
Grace Herrmann

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 1 (Yoyi)

Cooler Temp(including CF): 0.5+0.1=0.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-13464 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
10/7/24	~~1535~~ 1545	H_2O	FY Treated Eff	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
10/7/24	1535	H_2O	FY Raw	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
~~10/8/24~~	~~1020~~	~~Air~~	~~FY OX Eff~~	~~1-Tedlar~~	~~None~~								~~X~~	~~X~~
~~10/8/24~~	~~1015~~	~~Air~~	~~FY Comb Inf~~	~~1-Tedlar~~	~~None~~								~~X~~	~~X~~

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/8/24	1030			FedEx	10/8/24	1030
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				Fed ex	10/9/24	9:33

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc. Job Number: 885-13464-1

Login Number: 13464 **List Source: Eurofins Albuquerque**

List Number: 1

Creator: Proctor, Nancy

Question	Answer	Comment
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?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 10/15/2024 11:33:41 AM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-13467-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

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

Authorization



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10/15/2024 11:33:41 AM

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-13467-1
Project/Site: Former Y Station State Lead Site

Qualifiers

GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
885-13467-1

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 10/9/2024 9:33 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 17.0°C.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

Gasoline Range Organics
Method 8015D_GRO: Sample received with leaking container, proceeded with analyses of sample..

FY Comb Inf (885-13467-2)

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

GC VOA
Method 8021B: Sample received with leaking container, proceeded with analyses of sample..

FY Comb Inf (885-13467-2)

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

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-13467-1

Client Sample ID: FY OX Eff
Date Collected: 10/08/24 10:20
Date Received: 10/09/24 09:33
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-13467-1
Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	64		5.0	1.3	ug/L			10/11/24 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*15 - 412*		*10/11/24 13:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.56		0.10	0.018	ug/L			10/11/24 13:40	1
Ethylbenzene	0.64		0.10	0.014	ug/L			10/11/24 13:40	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			10/11/24 13:40	1
Toluene	5.8		0.10	0.021	ug/L			10/11/24 13:40	1
Xylenes, Total	2.4		0.20	0.031	ug/L			10/11/24 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/11/24 13:40*	*1*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-13467-1

Client Sample ID: FY Comb Inf

Date Collected: 10/08/24 10:15
Date Received: 10/09/24 09:33
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-13467-2

Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	15	E	5.0	1.3	ug/L			10/11/24 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 412*		*10/11/24 15:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.067	J E	0.10	0.018	ug/L			10/11/24 15:37	1
Ethylbenzene	0.068	J E	0.10	0.014	ug/L			10/11/24 15:37	1
Methyl-tert-butyl Ether (MTBE)	ND	E	0.25	0.043	ug/L			10/11/24 15:37	1
Toluene	0.50	E	0.10	0.021	ug/L			10/11/24 15:37	1
Xylenes, Total	0.18	J E	0.20	0.031	ug/L			10/11/24 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/11/24 15:37*	*1*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-14211/8
Matrix: Air
Analysis Batch: 14211

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	1.3	ug/L			10/11/24 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*15 - 412*		*10/11/24 13:16*	*1*

Lab Sample ID: LCS 885-14211/7
Matrix: Air
Analysis Batch: 14211

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			50.0	50.5		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*214*		*15 - 412*

Lab Sample ID: 885-13467-1 DU
Matrix: Air
Analysis Batch: 14211

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	64			61.9		ug/L				3	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*		*15 - 412*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-14212/8
Matrix: Air
Analysis Batch: 14212

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10	0.018	ug/L			10/11/24 13:16	1
Ethylbenzene	ND		0.10	0.014	ug/L			10/11/24 13:16	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			10/11/24 13:16	1
Toluene	ND		0.10	0.021	ug/L			10/11/24 13:16	1
Xylenes, Total	ND		0.20	0.031	ug/L			10/11/24 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/11/24 13:16*	*1*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-13467-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-14212/7
Matrix: Air
Analysis Batch: 14212

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.00	1.96		ug/L		98	70 - 130		
Ethylbenzene			2.00	1.98		ug/L		99	70 - 130		
m&p-Xylene			4.00	3.97		ug/L		99	70 - 130		
Methyl-tert-butyl Ether (MTBE)			2.00	1.86		ug/L		93	70 - 130		
o-Xylene			2.00	1.95		ug/L		98	70 - 130		
Toluene			2.00	1.97		ug/L		98	70 - 130		
Xylenes, Total			6.00	5.92		ug/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 885-13467-1 DU
Matrix: Air
Analysis Batch: 14212

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	0.56			0.544		ug/L				2	20
Ethylbenzene	0.64			0.617		ug/L				3	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Toluene	5.8			5.70		ug/L				2	20
Xylenes, Total	2.4			2.31		ug/L				3	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-13467-1

GC VOA

Analysis Batch: 14211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13467-1	FY OX Eff	Total/NA	Air	8015M/D	
885-13467-2	FY Comb Inf	Total/NA	Air	8015M/D	
MB 885-14211/8	Method Blank	Total/NA	Air	8015M/D	
LCS 885-14211/7	Lab Control Sample	Total/NA	Air	8015M/D	
885-13467-1 DU	FY OX Eff	Total/NA	Air	8015M/D	

Analysis Batch: 14212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13467-1	FY OX Eff	Total/NA	Air	8021B	
885-13467-2	FY Comb Inf	Total/NA	Air	8021B	
MB 885-14212/8	Method Blank	Total/NA	Air	8021B	
LCS 885-14212/7	Lab Control Sample	Total/NA	Air	8021B	
885-13467-1 DU	FY OX Eff	Total/NA	Air	8021B	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-13467-1

Client Sample ID: FY OX Eff

Lab Sample ID: 885-13467-1

Date Collected: 10/08/24 10:20
Date Received: 10/09/24 09:33

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	14211	JP	EET ALB	10/11/24 13:40
Total/NA	Analysis	8021B		1	14212	JP	EET ALB	10/11/24 13:40

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-13467-2

Date Collected: 10/08/24 10:15
Date Received: 10/09/24 09:33

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	14211	JP	EET ALB	10/11/24 15:37
Total/NA	Analysis	8021B		1	14212	JP	EET ALB	10/11/24 15:37

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-13467-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Chain-of-Custody Record

Client: **Daniel B Stephens & Associates**

Mailing Address: **6020 Academy Rd NE, STE 100**

Albuquerque, NM 87109

Phone #: **505-822-9400**

email or Fax#: **gherrmann@geo-logic.com**

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush_____

Project Name: **Former Y Station State Lead Site**

Project #: **DB18.1157**

Project Manager: **Grace Herrmann**

Sampler:

On Ice: ☐ Yes ☑ No

# of Coolers: 1

Cooler Temp(including CF): 16.9 +0.1 = 17.0 °C

HALL ENVIRONMENTAL ANALYSIS LABORA

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-13467 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
~~—~~		~~H_2O~~	~~FY Treated Eff~~	~~7-40ml, 1-plastic, 1-Amber~~	~~HCl, ThiO, H_2SO_4~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~—~~	
~~—~~		~~H_2O~~	~~FY Raw~~	~~7-40ml, 1-plastic, 1-Amber~~	~~HCl, ThiO, H_2SO_4~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~—~~	~~—~~
10/8/24	1020	Air	FY OX Eff	1-Tedlar	None								X	X
10/8/24	1015	Air	FY Comb Inf	1-Tedlar	None								X	X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/8/24	1030		FedEx		10/8/24	1030
Date:	Time:	Relinquished by:	Received by:	Via: FedEx	Date	Time
					10/9/24	9:33

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc. Job Number: 885-13467-1

Login Number: 13467 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Proctor, Nancy

Question	Answer	Comment
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	Thermal preservation not required.
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?	False	Refer to Job Narrative for details.
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	

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Q3 GWM

1 2 3 4 5 6 7 8 9 10 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 9/20/2024 2:45:43 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-10663-1

Eurofins Albuquerque

Job Notes

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

Authorization



Generated
9/20/2024 2:45:43 PM

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: 885-10663-1 Eurofins Albuquerque

Job Narrative
885-10663-1

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 8/27/2024 12:00 PM. 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 0.1°C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA
Method 8260B: Surrogate recovery for the following sample is outside the upper control limit: BW-5 (885-10663-7). Toluene-d8 (Surr) recovered high.

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

GC Semi VOA
Method 8011: The following sample will be reported with analytes out of range due to instrument downtime during the remainder of the hold time: BW-8 (885-10663-5), BW-7 (885-10663-6), BW-5 (885-10663-7), MW-12 (885-10663-8) and BW-7R (885-10663-10)

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

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: MW-15
Lab Sample ID: 885-10663-1
Date Collected: 08/26/24 14:25
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/04/24 16:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/04/24 16:36	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/04/24 16:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/04/24 16:36	1
1,1-Dichloroethane	ND		1.0		ug/L			09/04/24 16:36	1
1,1-Dichloroethene	ND		1.0		ug/L			09/04/24 16:36	1
1,1-Dichloropropene	ND		1.0		ug/L			09/04/24 16:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/04/24 16:36	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/04/24 16:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/04/24 16:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/04/24 16:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/04/24 16:36	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/04/24 16:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/04/24 16:36	1
1,2-Dichloroethane (EDC)	**1.1**		1.0		ug/L			09/04/24 16:36	1
1,2-Dichloropropane	ND		1.0		ug/L			09/04/24 16:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/04/24 16:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/04/24 16:36	1
1,3-Dichloropropane	ND		1.0		ug/L			09/04/24 16:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/04/24 16:36	1
1-Methylnaphthalene	ND		4.0		ug/L			09/04/24 16:36	1
2,2-Dichloropropane	ND		2.0		ug/L			09/04/24 16:36	1
2-Butanone	ND		10		ug/L			09/04/24 16:36	1
2-Chlorotoluene	ND		1.0		ug/L			09/04/24 16:36	1
2-Hexanone	ND		10		ug/L			09/04/24 16:36	1
2-Methylnaphthalene	ND		4.0		ug/L			09/04/24 16:36	1
4-Chlorotoluene	ND		1.0		ug/L			09/04/24 16:36	1
4-Isopropyltoluene	ND		1.0		ug/L			09/04/24 16:36	1
4-Methyl-2-pentanone	ND		10		ug/L			09/04/24 16:36	1
Acetone	ND		10		ug/L			09/04/24 16:36	1
Benzene	**28**		1.0		ug/L			09/04/24 16:36	1
Bromobenzene	ND		1.0		ug/L			09/04/24 16:36	1
Bromodichloromethane	ND		1.0		ug/L			09/04/24 16:36	1
Dibromochloromethane	ND		1.0		ug/L			09/04/24 16:36	1
Bromoform	ND		1.0		ug/L			09/04/24 16:36	1
Bromomethane	ND		3.0		ug/L			09/04/24 16:36	1
Carbon disulfide	ND		10		ug/L			09/04/24 16:36	1
Carbon tetrachloride	ND		1.0		ug/L			09/04/24 16:36	1
Chlorobenzene	ND		1.0		ug/L			09/04/24 16:36	1
Chloroethane	ND		2.0		ug/L			09/04/24 16:36	1
Chloroform	ND		1.0		ug/L			09/04/24 16:36	1
Chloromethane	ND		3.0		ug/L			09/04/24 16:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 16:36	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 16:36	1
Dibromomethane	ND		1.0		ug/L			09/04/24 16:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/04/24 16:36	1
Ethylbenzene	ND		1.0		ug/L			09/04/24 16:36	1
Hexachlorobutadiene	ND		1.0		ug/L			09/04/24 16:36	1
Isopropylbenzene	ND		1.0		ug/L			09/04/24 16:36	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: MW-15 **Lab Sample ID: 885-10663-1**
Date Collected: 08/26/24 14:25 **Matrix: Water**
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/04/24 16:36	1
Methylene Chloride	ND		3.0		ug/L			09/04/24 16:36	1
n-Butylbenzene	ND		3.0		ug/L			09/04/24 16:36	1
N-Propylbenzene	ND		1.0		ug/L			09/04/24 16:36	1
Naphthalene	ND		2.0		ug/L			09/04/24 16:36	1
sec-Butylbenzene	ND		1.0		ug/L			09/04/24 16:36	1
Styrene	ND		1.0		ug/L			09/04/24 16:36	1
tert-Butylbenzene	ND		1.0		ug/L			09/04/24 16:36	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/04/24 16:36	1
Toluene	ND		1.0		ug/L			09/04/24 16:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 16:36	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 16:36	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/04/24 16:36	1
Trichlorofluoromethane	ND		1.0		ug/L			09/04/24 16:36	1
Vinyl chloride	ND		1.0		ug/L			09/04/24 16:36	1
Xylenes, Total	ND		1.5		ug/L			09/04/24 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*09/04/24 16:36*	*1*
Toluene-d8 (Surr)	*124*		*70 - 130*		*09/04/24 16:36*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*09/04/24 16:36*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*09/04/24 16:36*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.13**		0.0094		ug/L		09/04/24 11:39	09/07/24 13:22	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: MW-17
Lab Sample ID: 885-10663-2
Date Collected: 08/26/24 14:50
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/04/24 17:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/04/24 17:05	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/04/24 17:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/04/24 17:05	1
1,1-Dichloroethane	ND		1.0		ug/L			09/04/24 17:05	1
1,1-Dichloroethene	ND		1.0		ug/L			09/04/24 17:05	1
1,1-Dichloropropene	ND		1.0		ug/L			09/04/24 17:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/04/24 17:05	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/04/24 17:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/04/24 17:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/04/24 17:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/04/24 17:05	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/04/24 17:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/04/24 17:05	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/04/24 17:05	1
1,2-Dichloropropane	ND		1.0		ug/L			09/04/24 17:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/04/24 17:05	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/04/24 17:05	1
1,3-Dichloropropane	ND		1.0		ug/L			09/04/24 17:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/04/24 17:05	1
1-Methylnaphthalene	ND		4.0		ug/L			09/04/24 17:05	1
2,2-Dichloropropane	ND		2.0		ug/L			09/04/24 17:05	1
2-Butanone	ND		10		ug/L			09/04/24 17:05	1
2-Chlorotoluene	ND		1.0		ug/L			09/04/24 17:05	1
2-Hexanone	ND		10		ug/L			09/04/24 17:05	1
2-Methylnaphthalene	ND		4.0		ug/L			09/04/24 17:05	1
4-Chlorotoluene	ND		1.0		ug/L			09/04/24 17:05	1
4-Isopropyltoluene	ND		1.0		ug/L			09/04/24 17:05	1
4-Methyl-2-pentanone	ND		10		ug/L			09/04/24 17:05	1
Acetone	ND		10		ug/L			09/04/24 17:05	1
Benzene	ND		1.0		ug/L			09/04/24 17:05	1
Bromobenzene	ND		1.0		ug/L			09/04/24 17:05	1
Bromodichloromethane	ND		1.0		ug/L			09/04/24 17:05	1
Dibromochloromethane	ND		1.0		ug/L			09/04/24 17:05	1
Bromoform	ND		1.0		ug/L			09/04/24 17:05	1
Bromomethane	ND		3.0		ug/L			09/04/24 17:05	1
Carbon disulfide	ND		10		ug/L			09/04/24 17:05	1
Carbon tetrachloride	ND		1.0		ug/L			09/04/24 17:05	1
Chlorobenzene	ND		1.0		ug/L			09/04/24 17:05	1
Chloroethane	ND		2.0		ug/L			09/04/24 17:05	1
Chloroform	ND		1.0		ug/L			09/04/24 17:05	1
Chloromethane	ND		3.0		ug/L			09/04/24 17:05	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 17:05	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 17:05	1
Dibromomethane	ND		1.0		ug/L			09/04/24 17:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/04/24 17:05	1
Ethylbenzene	ND		1.0		ug/L			09/04/24 17:05	1
Hexachlorobutadiene	ND		1.0		ug/L			09/04/24 17:05	1
Isopropylbenzene	ND		1.0		ug/L			09/04/24 17:05	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: MW-17 **Lab Sample ID: 885-10663-2**
Date Collected: 08/26/24 14:50 **Matrix: Water**
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/04/24 17:05	1
Methylene Chloride	ND		3.0		ug/L			09/04/24 17:05	1
n-Butylbenzene	ND		3.0		ug/L			09/04/24 17:05	1
N-Propylbenzene	ND		1.0		ug/L			09/04/24 17:05	1
Naphthalene	ND		2.0		ug/L			09/04/24 17:05	1
sec-Butylbenzene	ND		1.0		ug/L			09/04/24 17:05	1
Styrene	ND		1.0		ug/L			09/04/24 17:05	1
tert-Butylbenzene	ND		1.0		ug/L			09/04/24 17:05	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/04/24 17:05	1
Toluene	ND		1.0		ug/L			09/04/24 17:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 17:05	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 17:05	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/04/24 17:05	1
Trichlorofluoromethane	ND		1.0		ug/L			09/04/24 17:05	1
Vinyl chloride	ND		1.0		ug/L			09/04/24 17:05	1
Xylenes, Total	ND		1.5		ug/L			09/04/24 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*76*		*70 - 130*		*09/04/24 17:05*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*09/04/24 17:05*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*09/04/24 17:05*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*09/04/24 17:05*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0093		ug/L		09/04/24 11:39	09/07/24 13:39	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: MW-14
Lab Sample ID: 885-10663-3
Date Collected: 08/26/24 14:00
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/04/24 17:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/04/24 17:34	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/04/24 17:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/04/24 17:34	1
1,1-Dichloroethane	ND		1.0		ug/L			09/04/24 17:34	1
1,1-Dichloroethene	ND		1.0		ug/L			09/04/24 17:34	1
1,1-Dichloropropene	ND		1.0		ug/L			09/04/24 17:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/04/24 17:34	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/04/24 17:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/04/24 17:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/04/24 17:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/04/24 17:34	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/04/24 17:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/04/24 17:34	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/04/24 17:34	1
1,2-Dichloropropane	ND		1.0		ug/L			09/04/24 17:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/04/24 17:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/04/24 17:34	1
1,3-Dichloropropane	ND		1.0		ug/L			09/04/24 17:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/04/24 17:34	1
1-Methylnaphthalene	ND		4.0		ug/L			09/04/24 17:34	1
2,2-Dichloropropane	ND		2.0		ug/L			09/04/24 17:34	1
2-Butanone	ND		10		ug/L			09/04/24 17:34	1
2-Chlorotoluene	ND		1.0		ug/L			09/04/24 17:34	1
2-Hexanone	ND		10		ug/L			09/04/24 17:34	1
2-Methylnaphthalene	ND		4.0		ug/L			09/04/24 17:34	1
4-Chlorotoluene	ND		1.0		ug/L			09/04/24 17:34	1
4-Isopropyltoluene	ND		1.0		ug/L			09/04/24 17:34	1
4-Methyl-2-pentanone	ND		10		ug/L			09/04/24 17:34	1
Acetone	ND		10		ug/L			09/04/24 17:34	1
Benzene	ND		1.0		ug/L			09/04/24 17:34	1
Bromobenzene	ND		1.0		ug/L			09/04/24 17:34	1
Bromodichloromethane	ND		1.0		ug/L			09/04/24 17:34	1
Dibromochloromethane	ND		1.0		ug/L			09/04/24 17:34	1
Bromoform	ND		1.0		ug/L			09/04/24 17:34	1
Bromomethane	ND		3.0		ug/L			09/04/24 17:34	1
Carbon disulfide	ND		10		ug/L			09/04/24 17:34	1
Carbon tetrachloride	ND		1.0		ug/L			09/04/24 17:34	1
Chlorobenzene	ND		1.0		ug/L			09/04/24 17:34	1
Chloroethane	ND		2.0		ug/L			09/04/24 17:34	1
Chloroform	ND		1.0		ug/L			09/04/24 17:34	1
Chloromethane	ND		3.0		ug/L			09/04/24 17:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 17:34	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 17:34	1
Dibromomethane	ND		1.0		ug/L			09/04/24 17:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/04/24 17:34	1
Ethylbenzene	ND		1.0		ug/L			09/04/24 17:34	1
Hexachlorobutadiene	ND		1.0		ug/L			09/04/24 17:34	1
Isopropylbenzene	ND		1.0		ug/L			09/04/24 17:34	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10663-1

Client Sample ID: MW-14
Date Collected: 08/26/24 14:00
Date Received: 08/27/24 12:00

Lab Sample ID: 885-10663-3
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/04/24 17:34	1
Methylene Chloride	ND		3.0		ug/L			09/04/24 17:34	1
n-Butylbenzene	ND		3.0		ug/L			09/04/24 17:34	1
N-Propylbenzene	ND		1.0		ug/L			09/04/24 17:34	1
Naphthalene	ND		2.0		ug/L			09/04/24 17:34	1
sec-Butylbenzene	ND		1.0		ug/L			09/04/24 17:34	1
Styrene	ND		1.0		ug/L			09/04/24 17:34	1
tert-Butylbenzene	ND		1.0		ug/L			09/04/24 17:34	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/04/24 17:34	1
Toluene	ND		1.0		ug/L			09/04/24 17:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 17:34	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 17:34	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/04/24 17:34	1
Trichlorofluoromethane	ND		1.0		ug/L			09/04/24 17:34	1
Vinyl chloride	ND		1.0		ug/L			09/04/24 17:34	1
Xylenes, Total	ND		1.5		ug/L			09/04/24 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*09/04/24 17:34*	*1*
Toluene-d8 (Surr)	*118*		*70 - 130*		*09/04/24 17:34*	*1*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*		*09/04/24 17:34*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*09/04/24 17:34*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0095		ug/L		09/04/24 11:39	09/07/24 13:56	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: BW-4
Lab Sample ID: 885-10663-4
Date Collected: 08/26/24 15:25
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/04/24 18:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/04/24 18:02	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/04/24 18:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/04/24 18:02	1
1,1-Dichloroethane	ND		1.0		ug/L			09/04/24 18:02	1
1,1-Dichloroethene	ND		1.0		ug/L			09/04/24 18:02	1
1,1-Dichloropropene	ND		1.0		ug/L			09/04/24 18:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/04/24 18:02	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/04/24 18:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/04/24 18:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/04/24 18:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/04/24 18:02	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/04/24 18:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/04/24 18:02	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/04/24 18:02	1
1,2-Dichloropropane	ND		1.0		ug/L			09/04/24 18:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/04/24 18:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/04/24 18:02	1
1,3-Dichloropropane	ND		1.0		ug/L			09/04/24 18:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/04/24 18:02	1
1-Methylnaphthalene	ND		4.0		ug/L			09/04/24 18:02	1
2,2-Dichloropropane	ND		2.0		ug/L			09/04/24 18:02	1
2-Butanone	ND		10		ug/L			09/04/24 18:02	1
2-Chlorotoluene	ND		1.0		ug/L			09/04/24 18:02	1
2-Hexanone	ND		10		ug/L			09/04/24 18:02	1
2-Methylnaphthalene	ND		4.0		ug/L			09/04/24 18:02	1
4-Chlorotoluene	ND		1.0		ug/L			09/04/24 18:02	1
4-Isopropyltoluene	ND		1.0		ug/L			09/04/24 18:02	1
4-Methyl-2-pentanone	ND		10		ug/L			09/04/24 18:02	1
Acetone	ND		10		ug/L			09/04/24 18:02	1
Benzene	ND		1.0		ug/L			09/04/24 18:02	1
Bromobenzene	ND		1.0		ug/L			09/04/24 18:02	1
Bromodichloromethane	ND		1.0		ug/L			09/04/24 18:02	1
Dibromochloromethane	ND		1.0		ug/L			09/04/24 18:02	1
Bromoform	ND		1.0		ug/L			09/04/24 18:02	1
Bromomethane	ND		3.0		ug/L			09/04/24 18:02	1
Carbon disulfide	ND		10		ug/L			09/04/24 18:02	1
Carbon tetrachloride	ND		1.0		ug/L			09/04/24 18:02	1
Chlorobenzene	ND		1.0		ug/L			09/04/24 18:02	1
Chloroethane	ND		2.0		ug/L			09/04/24 18:02	1
Chloroform	ND		1.0		ug/L			09/04/24 18:02	1
Chloromethane	ND		3.0		ug/L			09/04/24 18:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 18:02	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 18:02	1
Dibromomethane	ND		1.0		ug/L			09/04/24 18:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/04/24 18:02	1
Ethylbenzene	ND		1.0		ug/L			09/04/24 18:02	1
Hexachlorobutadiene	ND		1.0		ug/L			09/04/24 18:02	1
Isopropylbenzene	ND		1.0		ug/L			09/04/24 18:02	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: BW-4 **Lab Sample ID: 885-10663-4**
Date Collected: 08/26/24 15:25 **Matrix: Water**
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/04/24 18:02	1
Methylene Chloride	ND		3.0		ug/L			09/04/24 18:02	1
n-Butylbenzene	ND		3.0		ug/L			09/04/24 18:02	1
N-Propylbenzene	ND		1.0		ug/L			09/04/24 18:02	1
Naphthalene	ND		2.0		ug/L			09/04/24 18:02	1
sec-Butylbenzene	ND		1.0		ug/L			09/04/24 18:02	1
Styrene	ND		1.0		ug/L			09/04/24 18:02	1
tert-Butylbenzene	ND		1.0		ug/L			09/04/24 18:02	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/04/24 18:02	1
Toluene	ND		1.0		ug/L			09/04/24 18:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 18:02	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 18:02	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/04/24 18:02	1
Trichlorofluoromethane	ND		1.0		ug/L			09/04/24 18:02	1
Vinyl chloride	ND		1.0		ug/L			09/04/24 18:02	1
Xylenes, Total	ND		1.5		ug/L			09/04/24 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*70 - 130*		*09/04/24 18:02*	*1*
Toluene-d8 (Surr)	*119*		*70 - 130*		*09/04/24 18:02*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*09/04/24 18:02*	*1*
Dibromofluoromethane (Surr)	*83*		*70 - 130*		*09/04/24 18:02*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0095		ug/L		09/04/24 11:39	09/07/24 14:14	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: BW-8
Lab Sample ID: 885-10663-5
Date Collected: 08/26/24 16:50
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			09/04/24 18:31	5
1,1,1-Trichloroethane	ND		5.0		ug/L			09/04/24 18:31	5
1,1,2,2-Tetrachloroethane	ND		10		ug/L			09/04/24 18:31	5
1,1,2-Trichloroethane	ND		5.0		ug/L			09/04/24 18:31	5
1,1-Dichloroethane	ND		5.0		ug/L			09/04/24 18:31	5
1,1-Dichloroethene	ND		5.0		ug/L			09/04/24 18:31	5
1,1-Dichloropropene	ND		5.0		ug/L			09/04/24 18:31	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			09/04/24 18:31	5
1,2,3-Trichloropropane	ND		10		ug/L			09/04/24 18:31	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			09/04/24 18:31	5
1,2,4-Trimethylbenzene	**130**		5.0		ug/L			09/04/24 18:31	5
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/04/24 18:31	5
1,2-Dibromoethane (EDB)	**15**		5.0		ug/L			09/04/24 18:31	5
1,2-Dichlorobenzene	ND		5.0		ug/L			09/04/24 18:31	5
1,2-Dichloroethane (EDC)	**25**		5.0		ug/L			09/04/24 18:31	5
1,2-Dichloropropane	ND		5.0		ug/L			09/04/24 18:31	5
1,3,5-Trimethylbenzene	**31**		5.0		ug/L			09/04/24 18:31	5
1,3-Dichlorobenzene	ND		5.0		ug/L			09/04/24 18:31	5
1,3-Dichloropropane	ND		5.0		ug/L			09/04/24 18:31	5
1,4-Dichlorobenzene	ND		5.0		ug/L			09/04/24 18:31	5
1-Methylnaphthalene	ND		20		ug/L			09/04/24 18:31	5
2,2-Dichloropropane	ND		10		ug/L			09/04/24 18:31	5
2-Butanone	**200**		50		ug/L			09/04/24 18:31	5
2-Chlorotoluene	ND		5.0		ug/L			09/04/24 18:31	5
2-Hexanone	**210**		50		ug/L			09/04/24 18:31	5
2-Methylnaphthalene	**25**		20		ug/L			09/04/24 18:31	5
4-Chlorotoluene	ND		5.0		ug/L			09/04/24 18:31	5
4-Isopropyltoluene	**5.3**		5.0		ug/L			09/04/24 18:31	5
4-Methyl-2-pentanone	ND		50		ug/L			09/04/24 18:31	5
Acetone	**190**		50		ug/L			09/05/24 21:47	5
Benzene	**1800**		50		ug/L			09/06/24 13:14	50
Bromobenzene	ND		5.0		ug/L			09/04/24 18:31	5
Bromodichloromethane	ND		5.0		ug/L			09/04/24 18:31	5
Dibromochloromethane	ND		5.0		ug/L			09/04/24 18:31	5
Bromoform	ND		5.0		ug/L			09/04/24 18:31	5
Bromomethane	ND		15		ug/L			09/04/24 18:31	5
Carbon disulfide	ND		50		ug/L			09/04/24 18:31	5
Carbon tetrachloride	ND		5.0		ug/L			09/04/24 18:31	5
Chlorobenzene	ND		5.0		ug/L			09/04/24 18:31	5
Chloroethane	ND		10		ug/L			09/04/24 18:31	5
Chloroform	ND		5.0		ug/L			09/04/24 18:31	5
Chloromethane	ND		15		ug/L			09/04/24 18:31	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			09/04/24 18:31	5
cis-1,3-Dichloropropene	ND		5.0		ug/L			09/04/24 18:31	5
Dibromomethane	ND		5.0		ug/L			09/04/24 18:31	5
Dichlorodifluoromethane	ND		5.0		ug/L			09/04/24 18:31	5
Ethylbenzene	**250**		5.0		ug/L			09/04/24 18:31	5
Hexachlorobutadiene	ND		5.0		ug/L			09/04/24 18:31	5
Isopropylbenzene	**11**		5.0		ug/L			09/04/24 18:31	5

Client Sample ID: BW-8 **Lab Sample ID: 885-10663-5**
Date Collected: 08/26/24 16:50 **Matrix: Water**
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			09/04/24 18:31	5
Methylene Chloride	ND		15		ug/L			09/04/24 18:31	5
n-Butylbenzene	ND		15		ug/L			09/04/24 18:31	5
N-Propylbenzene	**16**		5.0		ug/L			09/04/24 18:31	5
Naphthalene	**80**		10		ug/L			09/04/24 18:31	5
sec-Butylbenzene	ND		5.0		ug/L			09/04/24 18:31	5
Styrene	ND		5.0		ug/L			09/04/24 18:31	5
tert-Butylbenzene	ND		5.0		ug/L			09/04/24 18:31	5
Tetrachloroethene (PCE)	ND		5.0		ug/L			09/04/24 18:31	5
Toluene	**2100**		50		ug/L			09/06/24 13:14	50
trans-1,2-Dichloroethene	ND		5.0		ug/L			09/04/24 18:31	5
trans-1,3-Dichloropropene	ND		5.0		ug/L			09/04/24 18:31	5
Trichloroethene (TCE)	ND		5.0		ug/L			09/04/24 18:31	5
Trichlorofluoromethane	ND		5.0		ug/L			09/04/24 18:31	5
Vinyl chloride	ND		5.0		ug/L			09/04/24 18:31	5
Xylenes, Total	**1100**		7.5		ug/L			09/05/24 21:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*70 - 130*		*09/04/24 18:31*	*5*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*09/06/24 13:14*	*50*
Toluene-d8 (Surr)	*114*		*70 - 130*		*09/04/24 18:31*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/06/24 13:14*	*50*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*09/04/24 18:31*	*5*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*09/06/24 13:14*	*50*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*09/04/24 18:31*	*5*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*09/06/24 13:14*	*50*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**7.3**	**E**	0.0094		ug/L		09/04/24 11:39	09/07/24 14:48	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: BW-7
Lab Sample ID: 885-10663-6
Date Collected: 08/26/24 17:20
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/06/24 14:03	2
1,1,1-Trichloroethane	ND		2.0		ug/L			09/06/24 14:03	2
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			09/06/24 14:03	2
1,1,2-Trichloroethane	ND		2.0		ug/L			09/06/24 14:03	2
1,1-Dichloroethane	ND		2.0		ug/L			09/06/24 14:03	2
1,1-Dichloroethene	ND		2.0		ug/L			09/06/24 14:03	2
1,1-Dichloropropene	ND		2.0		ug/L			09/06/24 14:03	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/06/24 14:03	2
1,2,3-Trichloropropane	ND		4.0		ug/L			09/06/24 14:03	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			09/06/24 14:03	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			09/06/24 14:03	2
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			09/06/24 14:03	2
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			09/06/24 14:03	2
1,2-Dichlorobenzene	ND		2.0		ug/L			09/06/24 14:03	2
1,2-Dichloroethane (EDC)	**190**		2.0		ug/L			09/06/24 14:03	2
1,2-Dichloropropane	ND		2.0		ug/L			09/06/24 14:03	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			09/06/24 14:03	2
1,3-Dichlorobenzene	ND		2.0		ug/L			09/06/24 14:03	2
1,3-Dichloropropane	ND		2.0		ug/L			09/06/24 14:03	2
1,4-Dichlorobenzene	ND		2.0		ug/L			09/06/24 14:03	2
1-Methylnaphthalene	ND		8.0		ug/L			09/06/24 14:03	2
2,2-Dichloropropane	ND		4.0		ug/L			09/06/24 14:03	2
2-Butanone	ND		20		ug/L			09/06/24 14:03	2
2-Chlorotoluene	ND		2.0		ug/L			09/06/24 14:03	2
2-Hexanone	ND		20		ug/L			09/06/24 14:03	2
2-Methylnaphthalene	ND		8.0		ug/L			09/06/24 14:03	2
4-Chlorotoluene	ND		2.0		ug/L			09/06/24 14:03	2
4-Isopropyltoluene	ND		2.0		ug/L			09/06/24 14:03	2
4-Methyl-2-pentanone	ND		20		ug/L			09/06/24 14:03	2
Acetone	ND		20		ug/L			09/06/24 14:03	2
Benzene	ND		2.0		ug/L			09/06/24 14:03	2
Bromobenzene	ND		2.0		ug/L			09/06/24 14:03	2
Bromodichloromethane	ND		2.0		ug/L			09/06/24 14:03	2
Dibromochloromethane	ND		2.0		ug/L			09/06/24 14:03	2
Bromoform	ND		2.0		ug/L			09/06/24 14:03	2
Bromomethane	ND		6.0		ug/L			09/06/24 14:03	2
Carbon disulfide	ND		20		ug/L			09/06/24 14:03	2
Carbon tetrachloride	ND		2.0		ug/L			09/06/24 14:03	2
Chlorobenzene	ND		2.0		ug/L			09/06/24 14:03	2
Chloroethane	ND		4.0		ug/L			09/06/24 14:03	2
Chloroform	ND		2.0		ug/L			09/06/24 14:03	2
Chloromethane	ND		6.0		ug/L			09/06/24 14:03	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			09/06/24 14:03	2
cis-1,3-Dichloropropene	ND		2.0		ug/L			09/06/24 14:03	2
Dibromomethane	ND		2.0		ug/L			09/06/24 14:03	2
Dichlorodifluoromethane	ND		2.0		ug/L			09/06/24 14:03	2
Ethylbenzene	ND		2.0		ug/L			09/06/24 14:03	2
Hexachlorobutadiene	ND		2.0		ug/L			09/06/24 14:03	2
Isopropylbenzene	ND		2.0		ug/L			09/06/24 14:03	2

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: BW-7 **Lab Sample ID: 885-10663-6**
Date Collected: 08/26/24 17:20 **Matrix: Water**
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0		ug/L			09/06/24 14:03	2
Methylene Chloride	ND		6.0		ug/L			09/06/24 14:03	2
n-Butylbenzene	ND		6.0		ug/L			09/06/24 14:03	2
N-Propylbenzene	ND		2.0		ug/L			09/06/24 14:03	2
Naphthalene	ND		4.0		ug/L			09/06/24 14:03	2
sec-Butylbenzene	ND		2.0		ug/L			09/06/24 14:03	2
Styrene	ND		2.0		ug/L			09/06/24 14:03	2
tert-Butylbenzene	ND		2.0		ug/L			09/06/24 14:03	2
Tetrachloroethene (PCE)	ND		2.0		ug/L			09/06/24 14:03	2
Toluene	ND		2.0		ug/L			09/06/24 14:03	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			09/06/24 14:03	2
trans-1,3-Dichloropropene	ND		2.0		ug/L			09/06/24 14:03	2
Trichloroethene (TCE)	ND		2.0		ug/L			09/06/24 14:03	2
Trichlorofluoromethane	ND		2.0		ug/L			09/06/24 14:03	2
Vinyl chloride	ND		2.0		ug/L			09/06/24 14:03	2
Xylenes, Total	ND		3.0		ug/L			09/06/24 14:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*09/06/24 14:03*	*2*
Toluene-d8 (Surr)	*106*		*70 - 130*		*09/06/24 14:03*	*2*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*09/06/24 14:03*	*2*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/06/24 14:03*	*2*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.17**		0.0094		ug/L		09/04/24 11:39	09/07/24 15:05	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: BW-5
Lab Sample ID: 885-10663-7
Date Collected: 08/26/24 17:55
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			09/04/24 19:28	10
1,1,1-Trichloroethane	ND		10		ug/L			09/04/24 19:28	10
1,1,2,2-Tetrachloroethane	ND		20		ug/L			09/04/24 19:28	10
1,1,2-Trichloroethane	ND		10		ug/L			09/04/24 19:28	10
1,1-Dichloroethane	ND		10		ug/L			09/04/24 19:28	10
1,1-Dichloroethene	ND		10		ug/L			09/04/24 19:28	10
1,1-Dichloropropene	ND		10		ug/L			09/04/24 19:28	10
1,2,3-Trichlorobenzene	ND		10		ug/L			09/04/24 19:28	10
1,2,3-Trichloropropane	ND		20		ug/L			09/04/24 19:28	10
1,2,4-Trichlorobenzene	ND		10		ug/L			09/04/24 19:28	10
1,2,4-Trimethylbenzene	**300**		10		ug/L			09/04/24 19:28	10
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			09/04/24 19:28	10
1,2-Dibromoethane (EDB)	**21**		10		ug/L			09/04/24 19:28	10
1,2-Dichlorobenzene	ND		10		ug/L			09/04/24 19:28	10
1,2-Dichloroethane (EDC)	**110**		10		ug/L			09/04/24 19:28	10
1,2-Dichloropropane	ND		10		ug/L			09/04/24 19:28	10
1,3,5-Trimethylbenzene	**94**		10		ug/L			09/04/24 19:28	10
1,3-Dichlorobenzene	ND		10		ug/L			09/04/24 19:28	10
1,3-Dichloropropane	ND		10		ug/L			09/04/24 19:28	10
1,4-Dichlorobenzene	ND		10		ug/L			09/04/24 19:28	10
1-Methylnaphthalene	**78**		40		ug/L			09/04/24 19:28	10
2,2-Dichloropropane	ND		20		ug/L			09/04/24 19:28	10
2-Butanone	ND		100		ug/L			09/04/24 19:28	10
2-Chlorotoluene	ND		10		ug/L			09/04/24 19:28	10
2-Hexanone	ND		100		ug/L			09/04/24 19:28	10
2-Methylnaphthalene	**160**		40		ug/L			09/04/24 19:28	10
4-Chlorotoluene	ND		10		ug/L			09/04/24 19:28	10
4-Isopropyltoluene	ND		10		ug/L			09/04/24 19:28	10
4-Methyl-2-pentanone	ND		100		ug/L			09/04/24 19:28	10
Acetone	ND		100		ug/L			09/04/24 19:28	10
Benzene	**550**		10		ug/L			09/04/24 19:28	10
Bromobenzene	ND		10		ug/L			09/04/24 19:28	10
Bromodichloromethane	ND		10		ug/L			09/04/24 19:28	10
Dibromochloromethane	ND		10		ug/L			09/04/24 19:28	10
Bromoform	ND		10		ug/L			09/04/24 19:28	10
Bromomethane	ND		30		ug/L			09/04/24 19:28	10
Carbon disulfide	ND		100		ug/L			09/04/24 19:28	10
Carbon tetrachloride	ND		10		ug/L			09/04/24 19:28	10
Chlorobenzene	ND		10		ug/L			09/04/24 19:28	10
Chloroethane	ND		20		ug/L			09/04/24 19:28	10
Chloroform	ND		10		ug/L			09/04/24 19:28	10
Chloromethane	ND		30		ug/L			09/04/24 19:28	10
cis-1,2-Dichloroethene	ND		10		ug/L			09/04/24 19:28	10
cis-1,3-Dichloropropene	ND		10		ug/L			09/04/24 19:28	10
Dibromomethane	ND		10		ug/L			09/04/24 19:28	10
Dichlorodifluoromethane	ND		10		ug/L			09/04/24 19:28	10
Ethylbenzene	**69**		10		ug/L			09/04/24 19:28	10
Hexachlorobutadiene	ND		10		ug/L			09/04/24 19:28	10
Isopropylbenzene	**11**		10		ug/L			09/04/24 19:28	10

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: BW-5 **Lab Sample ID: 885-10663-7**
Date Collected: 08/26/24 17:55 **Matrix: Water**
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		10		ug/L			09/04/24 19:28	10
Methylene Chloride	ND		30		ug/L			09/04/24 19:28	10
n-Butylbenzene	ND		30		ug/L			09/04/24 19:28	10
N-Propylbenzene	ND		10		ug/L			09/04/24 19:28	10
Naphthalene	**88**		20		ug/L			09/04/24 19:28	10
sec-Butylbenzene	ND		10		ug/L			09/04/24 19:28	10
Styrene	ND		10		ug/L			09/04/24 19:28	10
tert-Butylbenzene	ND		10		ug/L			09/04/24 19:28	10
Tetrachloroethene (PCE)	ND		10		ug/L			09/04/24 19:28	10
Toluene	**180**		10		ug/L			09/04/24 19:28	10
trans-1,2-Dichloroethene	ND		10		ug/L			09/04/24 19:28	10
trans-1,3-Dichloropropene	ND		10		ug/L			09/04/24 19:28	10
Trichloroethene (TCE)	ND		10		ug/L			09/04/24 19:28	10
Trichlorofluoromethane	ND		10		ug/L			09/04/24 19:28	10
Vinyl chloride	ND		10		ug/L			09/04/24 19:28	10
Xylenes, Total	**1300**		15		ug/L			09/04/24 19:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*70 - 130*		*09/04/24 19:28*	*10*
Toluene-d8 (Surr)	*142*	*S1+*	*70 - 130*		*09/04/24 19:28*	*10*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*09/04/24 19:28*	*10*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*09/04/24 19:28*	*10*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**9.2**	**E**	0.0094		ug/L		09/04/24 11:39	09/07/24 15:22	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10663-1

Client Sample ID: MW-12
Date Collected: 08/26/24 13:00
Date Received: 08/27/24 12:00

Lab Sample ID: 885-10663-8
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/04/24 19:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/04/24 19:57	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/04/24 19:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/04/24 19:57	1
1,1-Dichloroethane	ND		1.0		ug/L			09/04/24 19:57	1
1,1-Dichloroethene	ND		1.0		ug/L			09/04/24 19:57	1
1,1-Dichloropropene	ND		1.0		ug/L			09/04/24 19:57	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/04/24 19:57	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/04/24 19:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/04/24 19:57	1
1,2,4-Trimethylbenzene	**9.9**		1.0		ug/L			09/04/24 19:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/04/24 19:57	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/04/24 19:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/04/24 19:57	1
1,2-Dichloroethane (EDC)	**77**		1.0		ug/L			09/04/24 19:57	1
1,2-Dichloropropane	ND		1.0		ug/L			09/04/24 19:57	1
1,3,5-Trimethylbenzene	**19**		1.0		ug/L			09/04/24 19:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/04/24 19:57	1
1,3-Dichloropropane	ND		1.0		ug/L			09/04/24 19:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/04/24 19:57	1
1-Methylnaphthalene	ND		4.0		ug/L			09/04/24 19:57	1
2,2-Dichloropropane	ND		2.0		ug/L			09/04/24 19:57	1
2-Butanone	ND		10		ug/L			09/04/24 19:57	1
2-Chlorotoluene	ND		1.0		ug/L			09/04/24 19:57	1
2-Hexanone	ND		10		ug/L			09/04/24 19:57	1
2-Methylnaphthalene	ND		4.0		ug/L			09/04/24 19:57	1
4-Chlorotoluene	ND		1.0		ug/L			09/04/24 19:57	1
4-Isopropyltoluene	ND		1.0		ug/L			09/04/24 19:57	1
4-Methyl-2-pentanone	ND		10		ug/L			09/04/24 19:57	1
Acetone	ND		10		ug/L			09/04/24 19:57	1
Benzene	**250**		10		ug/L			09/06/24 14:28	10
Bromobenzene	ND		1.0		ug/L			09/04/24 19:57	1
Bromodichloromethane	ND		1.0		ug/L			09/04/24 19:57	1
Dibromochloromethane	ND		1.0		ug/L			09/04/24 19:57	1
Bromoform	ND		1.0		ug/L			09/04/24 19:57	1
Bromomethane	ND		3.0		ug/L			09/04/24 19:57	1
Carbon disulfide	ND		10		ug/L			09/04/24 19:57	1
Carbon tetrachloride	ND		1.0		ug/L			09/04/24 19:57	1
Chlorobenzene	ND		1.0		ug/L			09/04/24 19:57	1
Chloroethane	ND		2.0		ug/L			09/04/24 19:57	1
Chloroform	ND		1.0		ug/L			09/04/24 19:57	1
Chloromethane	ND		3.0		ug/L			09/04/24 19:57	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 19:57	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 19:57	1
Dibromomethane	ND		1.0		ug/L			09/04/24 19:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/04/24 19:57	1
Ethylbenzene	ND		1.0		ug/L			09/04/24 19:57	1
Hexachlorobutadiene	ND		1.0		ug/L			09/04/24 19:57	1
Isopropylbenzene	ND		1.0		ug/L			09/04/24 19:57	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: MW-12
Lab Sample ID: 885-10663-8
Date Collected: 08/26/24 13:00
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	**1.5**		1.0		ug/L			09/04/24 19:57	1
Methylene Chloride	ND		3.0		ug/L			09/04/24 19:57	1
n-Butylbenzene	ND		3.0		ug/L			09/04/24 19:57	1
N-Propylbenzene	ND		1.0		ug/L			09/04/24 19:57	1
Naphthalene	**2.5**		2.0		ug/L			09/04/24 19:57	1
sec-Butylbenzene	ND		1.0		ug/L			09/04/24 19:57	1
Styrene	ND		1.0		ug/L			09/04/24 19:57	1
tert-Butylbenzene	ND		1.0		ug/L			09/04/24 19:57	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/04/24 19:57	1
Toluene	ND		1.0		ug/L			09/04/24 19:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 19:57	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 19:57	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/04/24 19:57	1
Trichlorofluoromethane	ND		1.0		ug/L			09/04/24 19:57	1
Vinyl chloride	ND		1.0		ug/L			09/04/24 19:57	1
Xylenes, Total	**50**		1.5		ug/L			09/04/24 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*		*09/04/24 19:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*09/06/24 14:28*	*10*
Toluene-d8 (Surr)	*124*		*70 - 130*		*09/04/24 19:57*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*09/06/24 14:28*	*10*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*09/04/24 19:57*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*09/06/24 14:28*	*10*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*09/04/24 19:57*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/06/24 14:28*	*10*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.26**	**E**	0.0095		ug/L		09/04/24 11:39	09/07/24 15:39	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: MW-13
Lab Sample ID: 885-10663-9
Date Collected: 08/25/24 17:55
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/05/24 17:18	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/05/24 17:18	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/05/24 17:18	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/05/24 17:18	1
1,1-Dichloroethane	ND		1.0		ug/L			09/05/24 17:18	1
1,1-Dichloroethene	ND		1.0		ug/L			09/05/24 17:18	1
1,1-Dichloropropene	ND		1.0		ug/L			09/05/24 17:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/05/24 17:18	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/05/24 17:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/05/24 17:18	1
1,2,4-Trimethylbenzene	**2.6**		1.0		ug/L			09/05/24 17:18	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/05/24 17:18	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/05/24 17:18	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/05/24 17:18	1
1,2-Dichloroethane (EDC)	**85**		1.0		ug/L			09/05/24 17:18	1
1,2-Dichloropropane	ND		1.0		ug/L			09/05/24 17:18	1
1,3,5-Trimethylbenzene	**9.9**		1.0		ug/L			09/05/24 17:18	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/05/24 17:18	1
1,3-Dichloropropane	ND		1.0		ug/L			09/05/24 17:18	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/05/24 17:18	1
1-Methylnaphthalene	ND		4.0		ug/L			09/05/24 17:18	1
2,2-Dichloropropane	ND		2.0		ug/L			09/05/24 17:18	1
2-Butanone	ND		10		ug/L			09/05/24 17:18	1
2-Chlorotoluene	ND		1.0		ug/L			09/05/24 17:18	1
2-Hexanone	ND		10		ug/L			09/05/24 17:18	1
2-Methylnaphthalene	ND		4.0		ug/L			09/05/24 17:18	1
4-Chlorotoluene	ND		1.0		ug/L			09/05/24 17:18	1
4-Isopropyltoluene	ND		1.0		ug/L			09/05/24 17:18	1
4-Methyl-2-pentanone	ND		10		ug/L			09/05/24 17:18	1
Acetone	ND		10		ug/L			09/05/24 17:18	1
Benzene	**2.3**		1.0		ug/L			09/05/24 17:18	1
Bromobenzene	ND		1.0		ug/L			09/05/24 17:18	1
Bromodichloromethane	ND		1.0		ug/L			09/05/24 17:18	1
Dibromochloromethane	ND		1.0		ug/L			09/05/24 17:18	1
Bromoform	ND		1.0		ug/L			09/05/24 17:18	1
Bromomethane	ND		3.0		ug/L			09/05/24 17:18	1
Carbon disulfide	ND		10		ug/L			09/05/24 17:18	1
Carbon tetrachloride	ND		1.0		ug/L			09/05/24 17:18	1
Chlorobenzene	ND		1.0		ug/L			09/05/24 17:18	1
Chloroethane	ND		2.0		ug/L			09/05/24 17:18	1
Chloroform	ND		1.0		ug/L			09/05/24 17:18	1
Chloromethane	ND		3.0		ug/L			09/05/24 17:18	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/05/24 17:18	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/05/24 17:18	1
Dibromomethane	ND		1.0		ug/L			09/05/24 17:18	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/05/24 17:18	1
Ethylbenzene	ND		1.0		ug/L			09/05/24 17:18	1
Hexachlorobutadiene	ND		1.0		ug/L			09/05/24 17:18	1
Isopropylbenzene	ND		1.0		ug/L			09/05/24 17:18	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: MW-13 **Lab Sample ID: 885-10663-9**
Date Collected: 08/25/24 17:55 **Matrix: Water**
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/05/24 17:18	1
Methylene Chloride	ND		3.0		ug/L			09/05/24 17:18	1
n-Butylbenzene	ND		3.0		ug/L			09/05/24 17:18	1
N-Propylbenzene	ND		1.0		ug/L			09/05/24 17:18	1
Naphthalene	ND		2.0		ug/L			09/05/24 17:18	1
sec-Butylbenzene	ND		1.0		ug/L			09/05/24 17:18	1
Styrene	ND		1.0		ug/L			09/05/24 17:18	1
tert-Butylbenzene	ND		1.0		ug/L			09/05/24 17:18	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/05/24 17:18	1
Toluene	ND		1.0		ug/L			09/05/24 17:18	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/05/24 17:18	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/05/24 17:18	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/05/24 17:18	1
Trichlorofluoromethane	ND		1.0		ug/L			09/05/24 17:18	1
Vinyl chloride	ND		1.0		ug/L			09/05/24 17:18	1
Xylenes, Total	**21**		1.5		ug/L			09/05/24 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*		*09/05/24 17:18*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/05/24 17:18*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*09/05/24 17:18*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/05/24 17:18*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.061**		0.0094		ug/L		09/04/24 11:39	09/07/24 15:56	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: BW-7R
Lab Sample ID: 885-10663-10
Date Collected: 08/25/24 18:30
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/05/24 18:56	2
1,1,1-Trichloroethane	ND		2.0		ug/L			09/05/24 18:56	2
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			09/05/24 18:56	2
1,1,2-Trichloroethane	ND		2.0		ug/L			09/05/24 18:56	2
1,1-Dichloroethane	ND		2.0		ug/L			09/05/24 18:56	2
1,1-Dichloroethene	ND		2.0		ug/L			09/05/24 18:56	2
1,1-Dichloropropene	ND		2.0		ug/L			09/05/24 18:56	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/05/24 18:56	2
1,2,3-Trichloropropane	ND		4.0		ug/L			09/05/24 18:56	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			09/05/24 18:56	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			09/05/24 18:56	2
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			09/05/24 18:56	2
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			09/05/24 18:56	2
1,2-Dichlorobenzene	ND		2.0		ug/L			09/05/24 18:56	2
1,2-Dichloroethane (EDC)	**120**		2.0		ug/L			09/05/24 18:56	2
1,2-Dichloropropane	ND		2.0		ug/L			09/05/24 18:56	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			09/05/24 18:56	2
1,3-Dichlorobenzene	ND		2.0		ug/L			09/05/24 18:56	2
1,3-Dichloropropane	ND		2.0		ug/L			09/05/24 18:56	2
1,4-Dichlorobenzene	ND		2.0		ug/L			09/05/24 18:56	2
1-Methylnaphthalene	ND		8.0		ug/L			09/05/24 18:56	2
2,2-Dichloropropane	ND		4.0		ug/L			09/05/24 18:56	2
2-Butanone	ND		20		ug/L			09/05/24 18:56	2
2-Chlorotoluene	ND		2.0		ug/L			09/05/24 18:56	2
2-Hexanone	ND		20		ug/L			09/05/24 18:56	2
2-Methylnaphthalene	ND		8.0		ug/L			09/05/24 18:56	2
4-Chlorotoluene	ND		2.0		ug/L			09/05/24 18:56	2
4-Isopropyltoluene	ND		2.0		ug/L			09/05/24 18:56	2
4-Methyl-2-pentanone	ND		20		ug/L			09/05/24 18:56	2
Acetone	ND		20		ug/L			09/05/24 18:56	2
Benzene	ND		2.0		ug/L			09/05/24 18:56	2
Bromobenzene	ND		2.0		ug/L			09/05/24 18:56	2
Bromodichloromethane	ND		2.0		ug/L			09/05/24 18:56	2
Dibromochloromethane	ND		2.0		ug/L			09/05/24 18:56	2
Bromoform	ND		2.0		ug/L			09/05/24 18:56	2
Bromomethane	ND		6.0		ug/L			09/05/24 18:56	2
Carbon disulfide	ND		20		ug/L			09/05/24 18:56	2
Carbon tetrachloride	ND		2.0		ug/L			09/05/24 18:56	2
Chlorobenzene	ND		2.0		ug/L			09/05/24 18:56	2
Chloroethane	ND		4.0		ug/L			09/05/24 18:56	2
Chloroform	ND		2.0		ug/L			09/05/24 18:56	2
Chloromethane	ND		6.0		ug/L			09/05/24 18:56	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			09/05/24 18:56	2
cis-1,3-Dichloropropene	ND		2.0		ug/L			09/05/24 18:56	2
Dibromomethane	ND		2.0		ug/L			09/05/24 18:56	2
Dichlorodifluoromethane	ND		2.0		ug/L			09/05/24 18:56	2
Ethylbenzene	ND		2.0		ug/L			09/05/24 18:56	2
Hexachlorobutadiene	ND		2.0		ug/L			09/05/24 18:56	2
Isopropylbenzene	ND		2.0		ug/L			09/05/24 18:56	2

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: BW-7R **Lab Sample ID: 885-10663-10**
Date Collected: 08/25/24 18:30 **Matrix: Water**
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0		ug/L			09/05/24 18:56	2
Methylene Chloride	ND		6.0		ug/L			09/05/24 18:56	2
n-Butylbenzene	ND		6.0		ug/L			09/05/24 18:56	2
N-Propylbenzene	ND		2.0		ug/L			09/05/24 18:56	2
Naphthalene	ND		4.0		ug/L			09/05/24 18:56	2
sec-Butylbenzene	ND		2.0		ug/L			09/05/24 18:56	2
Styrene	ND		2.0		ug/L			09/05/24 18:56	2
tert-Butylbenzene	ND		2.0		ug/L			09/05/24 18:56	2
Tetrachloroethene (PCE)	ND		2.0		ug/L			09/05/24 18:56	2
Toluene	ND		2.0		ug/L			09/05/24 18:56	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			09/05/24 18:56	2
trans-1,3-Dichloropropene	ND		2.0		ug/L			09/05/24 18:56	2
Trichloroethene (TCE)	ND		2.0		ug/L			09/05/24 18:56	2
Trichlorofluoromethane	ND		2.0		ug/L			09/05/24 18:56	2
Vinyl chloride	ND		2.0		ug/L			09/05/24 18:56	2
Xylenes, Total	ND		3.0		ug/L			09/05/24 18:56	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*09/05/24 18:56*	*2*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/05/24 18:56*	*2*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*09/05/24 18:56*	*2*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*09/05/24 18:56*	*2*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**1.1**	**E**	0.0094		ug/L		09/04/24 11:39	09/07/24 16:14	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-10663-11
Date Collected: 08/25/24 00:00
Matrix: Water
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/05/24 19:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/05/24 19:45	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/05/24 19:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/05/24 19:45	1
1,1-Dichloroethane	ND		1.0		ug/L			09/05/24 19:45	1
1,1-Dichloroethene	ND		1.0		ug/L			09/05/24 19:45	1
1,1-Dichloropropene	ND		1.0		ug/L			09/05/24 19:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/05/24 19:45	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/05/24 19:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/05/24 19:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/05/24 19:45	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/05/24 19:45	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/05/24 19:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/05/24 19:45	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/05/24 19:45	1
1,2-Dichloropropane	ND		1.0		ug/L			09/05/24 19:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/05/24 19:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/05/24 19:45	1
1,3-Dichloropropane	ND		1.0		ug/L			09/05/24 19:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/05/24 19:45	1
1-Methylnaphthalene	ND		4.0		ug/L			09/05/24 19:45	1
2,2-Dichloropropane	ND		2.0		ug/L			09/05/24 19:45	1
2-Butanone	ND		10		ug/L			09/05/24 19:45	1
2-Chlorotoluene	ND		1.0		ug/L			09/05/24 19:45	1
2-Hexanone	ND		10		ug/L			09/05/24 19:45	1
2-Methylnaphthalene	ND		4.0		ug/L			09/05/24 19:45	1
4-Chlorotoluene	ND		1.0		ug/L			09/05/24 19:45	1
4-Isopropyltoluene	ND		1.0		ug/L			09/05/24 19:45	1
4-Methyl-2-pentanone	ND		10		ug/L			09/05/24 19:45	1
Acetone	ND		10		ug/L			09/05/24 19:45	1
Benzene	ND		1.0		ug/L			09/05/24 19:45	1
Bromobenzene	ND		1.0		ug/L			09/05/24 19:45	1
Bromodichloromethane	ND		1.0		ug/L			09/05/24 19:45	1
Dibromochloromethane	ND		1.0		ug/L			09/05/24 19:45	1
Bromoform	ND		1.0		ug/L			09/05/24 19:45	1
Bromomethane	ND		3.0		ug/L			09/05/24 19:45	1
Carbon disulfide	ND		10		ug/L			09/05/24 19:45	1
Carbon tetrachloride	ND		1.0		ug/L			09/05/24 19:45	1
Chlorobenzene	ND		1.0		ug/L			09/05/24 19:45	1
Chloroethane	ND		2.0		ug/L			09/05/24 19:45	1
Chloroform	ND		1.0		ug/L			09/05/24 19:45	1
Chloromethane	ND		3.0		ug/L			09/05/24 19:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/05/24 19:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/05/24 19:45	1
Dibromomethane	ND		1.0		ug/L			09/05/24 19:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/05/24 19:45	1
Ethylbenzene	ND		1.0		ug/L			09/05/24 19:45	1
Hexachlorobutadiene	ND		1.0		ug/L			09/05/24 19:45	1
Isopropylbenzene	ND		1.0		ug/L			09/05/24 19:45	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank **Lab Sample ID: 885-10663-11**
Date Collected: 08/25/24 00:00 **Matrix: Water**
Date Received: 08/27/24 12:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/05/24 19:45	1
Methylene Chloride	ND		3.0		ug/L			09/05/24 19:45	1
n-Butylbenzene	ND		3.0		ug/L			09/05/24 19:45	1
N-Propylbenzene	ND		1.0		ug/L			09/05/24 19:45	1
Naphthalene	ND		2.0		ug/L			09/05/24 19:45	1
sec-Butylbenzene	ND		1.0		ug/L			09/05/24 19:45	1
Styrene	ND		1.0		ug/L			09/05/24 19:45	1
tert-Butylbenzene	ND		1.0		ug/L			09/05/24 19:45	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/05/24 19:45	1
Toluene	ND		1.0		ug/L			09/05/24 19:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/05/24 19:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/05/24 19:45	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/05/24 19:45	1
Trichlorofluoromethane	ND		1.0		ug/L			09/05/24 19:45	1
Vinyl chloride	ND		1.0		ug/L			09/05/24 19:45	1
Xylenes, Total	ND		1.5		ug/L			09/05/24 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*09/05/24 19:45*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/05/24 19:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/05/24 19:45*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/05/24 19:45*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0093		ug/L		09/04/24 11:39	09/07/24 16:31	1

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

Lab Sample ID: MB 885-11548/4
Matrix: Water
Analysis Batch: 11548

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/04/24 09:28	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/04/24 09:28	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/04/24 09:28	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/04/24 09:28	1
1,1-Dichloroethane	ND		1.0		ug/L			09/04/24 09:28	1
1,1-Dichloroethene	ND		1.0		ug/L			09/04/24 09:28	1
1,1-Dichloropropene	ND		1.0		ug/L			09/04/24 09:28	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/04/24 09:28	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/04/24 09:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/04/24 09:28	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/04/24 09:28	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/04/24 09:28	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/04/24 09:28	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/04/24 09:28	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/04/24 09:28	1
1,2-Dichloropropane	ND		1.0		ug/L			09/04/24 09:28	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/04/24 09:28	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/04/24 09:28	1
1,3-Dichloropropane	ND		1.0		ug/L			09/04/24 09:28	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/04/24 09:28	1
1-Methylnaphthalene	ND		4.0		ug/L			09/04/24 09:28	1
2,2-Dichloropropane	ND		2.0		ug/L			09/04/24 09:28	1
2-Butanone	ND		10		ug/L			09/04/24 09:28	1
2-Chlorotoluene	ND		1.0		ug/L			09/04/24 09:28	1
2-Hexanone	ND		10		ug/L			09/04/24 09:28	1
2-Methylnaphthalene	ND		4.0		ug/L			09/04/24 09:28	1
4-Chlorotoluene	ND		1.0		ug/L			09/04/24 09:28	1
4-Isopropyltoluene	ND		1.0		ug/L			09/04/24 09:28	1
4-Methyl-2-pentanone	ND		10		ug/L			09/04/24 09:28	1
Acetone	ND		10		ug/L			09/04/24 09:28	1
Benzene	ND		1.0		ug/L			09/04/24 09:28	1
Bromobenzene	ND		1.0		ug/L			09/04/24 09:28	1
Bromodichloromethane	ND		1.0		ug/L			09/04/24 09:28	1
Dibromochloromethane	ND		1.0		ug/L			09/04/24 09:28	1
Bromoform	ND		1.0		ug/L			09/04/24 09:28	1
Bromomethane	ND		3.0		ug/L			09/04/24 09:28	1
Carbon disulfide	ND		10		ug/L			09/04/24 09:28	1
Carbon tetrachloride	ND		1.0		ug/L			09/04/24 09:28	1
Chlorobenzene	ND		1.0		ug/L			09/04/24 09:28	1
Chloroethane	ND		2.0		ug/L			09/04/24 09:28	1
Chloroform	ND		1.0		ug/L			09/04/24 09:28	1
Chloromethane	ND		3.0		ug/L			09/04/24 09:28	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 09:28	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 09:28	1
Dibromomethane	ND		1.0		ug/L			09/04/24 09:28	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/04/24 09:28	1
Ethylbenzene	ND		1.0		ug/L			09/04/24 09:28	1
Hexachlorobutadiene	ND		1.0		ug/L			09/04/24 09:28	1

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

Lab Sample ID: MB 885-11548/4
Matrix: Water
Analysis Batch: 11548

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			09/04/24 09:28	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/04/24 09:28	1
Methylene Chloride	ND		3.0		ug/L			09/04/24 09:28	1
n-Butylbenzene	ND		3.0		ug/L			09/04/24 09:28	1
N-Propylbenzene	ND		1.0		ug/L			09/04/24 09:28	1
Naphthalene	ND		2.0		ug/L			09/04/24 09:28	1
sec-Butylbenzene	ND		1.0		ug/L			09/04/24 09:28	1
Styrene	ND		1.0		ug/L			09/04/24 09:28	1
tert-Butylbenzene	ND		1.0		ug/L			09/04/24 09:28	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/04/24 09:28	1
Toluene	ND		1.0		ug/L			09/04/24 09:28	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/04/24 09:28	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/04/24 09:28	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/04/24 09:28	1
Trichlorofluoromethane	ND		1.0		ug/L			09/04/24 09:28	1
Vinyl chloride	ND		1.0		ug/L			09/04/24 09:28	1
Xylenes, Total	ND		1.5		ug/L			09/04/24 09:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*09/04/24 09:28*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*09/04/24 09:28*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*09/04/24 09:28*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*09/04/24 09:28*	*1*

Lab Sample ID: LCS 885-11548/3
Matrix: Water
Analysis Batch: 11548

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	17.2		ug/L		85	70 - 130		
Benzene			20.1	15.8		ug/L		79	70 - 130		
Chlorobenzene			20.1	25.5		ug/L		127	70 - 130		
Toluene			20.2	23.5		ug/L		116	70 - 130		
Trichloroethene (TCE)			20.2	16.8		ug/L		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*87*		*70 - 130*

Lab Sample ID: MB 885-11699/4
Matrix: Water
Analysis Batch: 11699

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/05/24 16:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/05/24 16:54	1

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

Lab Sample ID: MB 885-11699/4
Matrix: Water
Analysis Batch: 11699

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/05/24 16:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/05/24 16:54	1
1,1-Dichloroethane	ND		1.0		ug/L			09/05/24 16:54	1
1,1-Dichloroethene	ND		1.0		ug/L			09/05/24 16:54	1
1,1-Dichloropropene	ND		1.0		ug/L			09/05/24 16:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/05/24 16:54	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/05/24 16:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/05/24 16:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/05/24 16:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/05/24 16:54	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/05/24 16:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/05/24 16:54	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/05/24 16:54	1
1,2-Dichloropropane	ND		1.0		ug/L			09/05/24 16:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/05/24 16:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/05/24 16:54	1
1,3-Dichloropropane	ND		1.0		ug/L			09/05/24 16:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/05/24 16:54	1
1-Methylnaphthalene	ND		4.0		ug/L			09/05/24 16:54	1
2,2-Dichloropropane	ND		2.0		ug/L			09/05/24 16:54	1
2-Butanone	ND		10		ug/L			09/05/24 16:54	1
2-Chlorotoluene	ND		1.0		ug/L			09/05/24 16:54	1
2-Hexanone	ND		10		ug/L			09/05/24 16:54	1
2-Methylnaphthalene	ND		4.0		ug/L			09/05/24 16:54	1
4-Chlorotoluene	ND		1.0		ug/L			09/05/24 16:54	1
4-Isopropyltoluene	ND		1.0		ug/L			09/05/24 16:54	1
4-Methyl-2-pentanone	ND		10		ug/L			09/05/24 16:54	1
Acetone	ND		10		ug/L			09/05/24 16:54	1
Benzene	ND		1.0		ug/L			09/05/24 16:54	1
Bromobenzene	ND		1.0		ug/L			09/05/24 16:54	1
Bromodichloromethane	ND		1.0		ug/L			09/05/24 16:54	1
Dibromochloromethane	ND		1.0		ug/L			09/05/24 16:54	1
Bromoform	ND		1.0		ug/L			09/05/24 16:54	1
Bromomethane	ND		3.0		ug/L			09/05/24 16:54	1
Carbon disulfide	ND		10		ug/L			09/05/24 16:54	1
Carbon tetrachloride	ND		1.0		ug/L			09/05/24 16:54	1
Chlorobenzene	ND		1.0		ug/L			09/05/24 16:54	1
Chloroethane	ND		2.0		ug/L			09/05/24 16:54	1
Chloroform	ND		1.0		ug/L			09/05/24 16:54	1
Chloromethane	ND		3.0		ug/L			09/05/24 16:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/05/24 16:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/05/24 16:54	1
Dibromomethane	ND		1.0		ug/L			09/05/24 16:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/05/24 16:54	1
Ethylbenzene	ND		1.0		ug/L			09/05/24 16:54	1
Hexachlorobutadiene	ND		1.0		ug/L			09/05/24 16:54	1
Isopropylbenzene	ND		1.0		ug/L			09/05/24 16:54	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/05/24 16:54	1
Methylene Chloride	ND		3.0		ug/L			09/05/24 16:54	1

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

Lab Sample ID: MB 885-11699/4
Matrix: Water
Analysis Batch: 11699

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		3.0		ug/L			09/05/24 16:54	1
N-Propylbenzene	ND		1.0		ug/L			09/05/24 16:54	1
Naphthalene	ND		2.0		ug/L			09/05/24 16:54	1
sec-Butylbenzene	ND		1.0		ug/L			09/05/24 16:54	1
Styrene	ND		1.0		ug/L			09/05/24 16:54	1
tert-Butylbenzene	ND		1.0		ug/L			09/05/24 16:54	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/05/24 16:54	1
Toluene	ND		1.0		ug/L			09/05/24 16:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/05/24 16:54	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/05/24 16:54	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/05/24 16:54	1
Trichlorofluoromethane	ND		1.0		ug/L			09/05/24 16:54	1
Vinyl chloride	ND		1.0		ug/L			09/05/24 16:54	1
Xylenes, Total	ND		1.5		ug/L			09/05/24 16:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*09/05/24 16:54*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*09/05/24 16:54*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*09/05/24 16:54*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/05/24 16:54*	*1*

Lab Sample ID: LCS 885-11699/3
Matrix: Water
Analysis Batch: 11699

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	21.0		ug/L		104	70 - 130		
Benzene			20.1	23.3		ug/L		116	70 - 130		
Chlorobenzene			20.1	20.8		ug/L		104	70 - 130		
Toluene			20.2	20.2		ug/L		100	70 - 130		
Trichloroethene (TCE)			20.2	23.2		ug/L		115	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: 885-10663-9 MS
Matrix: Water
Analysis Batch: 11699

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene	ND		20.1	20.6		ug/L		102	70 - 130		
Benzene	2.3		20.1	25.4		ug/L		115	70 - 130		
Chlorobenzene	ND		20.1	20.6		ug/L		102	70 - 130		
Toluene	ND		20.2	20.2		ug/L		100	70 - 130		
Trichloroethene (TCE)	ND		20.2	22.1		ug/L		108	70 - 130		

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

Lab Sample ID: 885-10663-9 MS
Matrix: Water
Analysis Batch: 11699

Client Sample ID: MW-13
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Lab Sample ID: 885-10663-9 MSD
Matrix: Water
Analysis Batch: 11699

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		20.1	18.8		ug/L		93	70 - 130	9	20
Benzene	2.3		20.1	23.6		ug/L		106	70 - 130	7	20
Chlorobenzene	ND		20.1	20.1		ug/L		100	70 - 130	2	20
Toluene	ND		20.2	19.7		ug/L		98	70 - 130	2	20
Trichloroethene (TCE)	ND		20.2	20.5		ug/L		101	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 885-11742/1004
Matrix: Water
Analysis Batch: 11742

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10		ug/L			09/06/24 12:50	1
1,1,1-Trichloroethane	ND		0.10		ug/L			09/06/24 12:50	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			09/06/24 12:50	1
1,1,2-Trichloroethane	ND		0.10		ug/L			09/06/24 12:50	1
1,1-Dichloroethane	ND		0.10		ug/L			09/06/24 12:50	1
1,1-Dichloroethene	ND		0.10		ug/L			09/06/24 12:50	1
1,1-Dichloropropene	ND		0.10		ug/L			09/06/24 12:50	1
1,2,3-Trichlorobenzene	ND		0.10		ug/L			09/06/24 12:50	1
1,2,3-Trichloropropane	ND		0.20		ug/L			09/06/24 12:50	1
1,2,4-Trichlorobenzene	ND		0.10		ug/L			09/06/24 12:50	1
1,2,4-Trimethylbenzene	ND		0.10		ug/L			09/06/24 12:50	1
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L			09/06/24 12:50	1
1,2-Dibromoethane (EDB)	ND		0.10		ug/L			09/06/24 12:50	1
1,2-Dichlorobenzene	ND		0.10		ug/L			09/06/24 12:50	1
1,2-Dichloroethane (EDC)	ND		0.10		ug/L			09/06/24 12:50	1
1,2-Dichloropropane	ND		0.10		ug/L			09/06/24 12:50	1
1,3,5-Trimethylbenzene	ND		0.10		ug/L			09/06/24 12:50	1
1,3-Dichlorobenzene	ND		0.10		ug/L			09/06/24 12:50	1
1,3-Dichloropropane	ND		0.10		ug/L			09/06/24 12:50	1
1,4-Dichlorobenzene	ND		0.10		ug/L			09/06/24 12:50	1
1-Methylnaphthalene	ND		0.40		ug/L			09/06/24 12:50	1

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

Lab Sample ID: MB 885-11742/1004
Matrix: Water
Analysis Batch: 11742

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.20		ug/L			09/06/24 12:50	1
2-Butanone	ND		1.0		ug/L			09/06/24 12:50	1
2-Chlorotoluene	ND		0.10		ug/L			09/06/24 12:50	1
2-Hexanone	ND		1.0		ug/L			09/06/24 12:50	1
2-Methylnaphthalene	ND		0.40		ug/L			09/06/24 12:50	1
4-Chlorotoluene	ND		0.10		ug/L			09/06/24 12:50	1
4-Isopropyltoluene	ND		0.10		ug/L			09/06/24 12:50	1
4-Methyl-2-pentanone	ND		1.0		ug/L			09/06/24 12:50	1
Acetone	ND		1.0		ug/L			09/06/24 12:50	1
Benzene	ND		0.10		ug/L			09/06/24 12:50	1
Bromobenzene	ND		0.10		ug/L			09/06/24 12:50	1
Bromodichloromethane	ND		0.10		ug/L			09/06/24 12:50	1
Dibromochloromethane	ND		0.10		ug/L			09/06/24 12:50	1
Bromoform	ND		0.10		ug/L			09/06/24 12:50	1
Bromomethane	ND		0.30		ug/L			09/06/24 12:50	1
Carbon disulfide	ND		1.0		ug/L			09/06/24 12:50	1
Carbon tetrachloride	ND		0.10		ug/L			09/06/24 12:50	1
Chlorobenzene	ND		0.10		ug/L			09/06/24 12:50	1
Chloroethane	ND		0.20		ug/L			09/06/24 12:50	1
Chloroform	ND		0.10		ug/L			09/06/24 12:50	1
Chloromethane	ND		0.30		ug/L			09/06/24 12:50	1
cis-1,2-Dichloroethene	ND		0.10		ug/L			09/06/24 12:50	1
cis-1,3-Dichloropropene	ND		0.10		ug/L			09/06/24 12:50	1
Dibromomethane	ND		0.10		ug/L			09/06/24 12:50	1
Dichlorodifluoromethane	ND		0.10		ug/L			09/06/24 12:50	1
Ethylbenzene	ND		0.10		ug/L			09/06/24 12:50	1
Hexachlorobutadiene	ND		0.10		ug/L			09/06/24 12:50	1
Isopropylbenzene	ND		0.10		ug/L			09/06/24 12:50	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10		ug/L			09/06/24 12:50	1
Methylene Chloride	ND		0.30		ug/L			09/06/24 12:50	1
n-Butylbenzene	ND		0.30		ug/L			09/06/24 12:50	1
N-Propylbenzene	ND		0.10		ug/L			09/06/24 12:50	1
Naphthalene	ND		0.20		ug/L			09/06/24 12:50	1
sec-Butylbenzene	ND		0.10		ug/L			09/06/24 12:50	1
Styrene	ND		0.10		ug/L			09/06/24 12:50	1
tert-Butylbenzene	ND		0.10		ug/L			09/06/24 12:50	1
Tetrachloroethene (PCE)	ND		0.10		ug/L			09/06/24 12:50	1
Toluene	ND		0.10		ug/L			09/06/24 12:50	1
trans-1,2-Dichloroethene	ND		0.10		ug/L			09/06/24 12:50	1
trans-1,3-Dichloropropene	ND		0.10		ug/L			09/06/24 12:50	1
Trichloroethene (TCE)	ND		0.10		ug/L			09/06/24 12:50	1
Trichlorofluoromethane	ND		0.10		ug/L			09/06/24 12:50	1
Vinyl chloride	ND		0.10		ug/L			09/06/24 12:50	1
Xylenes, Total	ND		0.15		ug/L			09/06/24 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*09/06/24 12:50*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/06/24 12:50*	*1*

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

Lab Sample ID: MB 885-11742/1004
Matrix: Water
Analysis Batch: 11742

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130		09/06/24 12:50	1
Dibromofluoromethane (Surr)	99		70 - 130		09/06/24 12:50	1

Lab Sample ID: MB 885-11742/4
Matrix: Water
Analysis Batch: 11742

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/24 12:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/24 12:50	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/06/24 12:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/24 12:50	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/24 12:50	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/24 12:50	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/24 12:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/24 12:50	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/06/24 12:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/24 12:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/24 12:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/06/24 12:50	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/06/24 12:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/24 12:50	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/06/24 12:50	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/24 12:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/24 12:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/24 12:50	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/24 12:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/24 12:50	1
1-Methylnaphthalene	ND		4.0		ug/L			09/06/24 12:50	1
2,2-Dichloropropane	ND		2.0		ug/L			09/06/24 12:50	1
2-Butanone	ND		10		ug/L			09/06/24 12:50	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/24 12:50	1
2-Hexanone	ND		10		ug/L			09/06/24 12:50	1
2-Methylnaphthalene	ND		4.0		ug/L			09/06/24 12:50	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/24 12:50	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/24 12:50	1
4-Methyl-2-pentanone	ND		10		ug/L			09/06/24 12:50	1
Acetone	ND		10		ug/L			09/06/24 12:50	1
Benzene	ND		1.0		ug/L			09/06/24 12:50	1
Bromobenzene	ND		1.0		ug/L			09/06/24 12:50	1
Bromodichloromethane	ND		1.0		ug/L			09/06/24 12:50	1
Dibromochloromethane	ND		1.0		ug/L			09/06/24 12:50	1
Bromoform	ND		1.0		ug/L			09/06/24 12:50	1
Bromomethane	ND		3.0		ug/L			09/06/24 12:50	1
Carbon disulfide	ND		10		ug/L			09/06/24 12:50	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/24 12:50	1
Chlorobenzene	ND		1.0		ug/L			09/06/24 12:50	1
Chloroethane	ND		2.0		ug/L			09/06/24 12:50	1

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

Lab Sample ID: MB 885-11742/4
Matrix: Water
Analysis Batch: 11742

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0		ug/L			09/06/24 12:50	1
Chloromethane	ND		3.0		ug/L			09/06/24 12:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/24 12:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/06/24 12:50	1
Dibromomethane	ND		1.0		ug/L			09/06/24 12:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/24 12:50	1
Ethylbenzene	ND		1.0		ug/L			09/06/24 12:50	1
Hexachlorobutadiene	ND		1.0		ug/L			09/06/24 12:50	1
Isopropylbenzene	ND		1.0		ug/L			09/06/24 12:50	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/06/24 12:50	1
Methylene Chloride	ND		3.0		ug/L			09/06/24 12:50	1
n-Butylbenzene	ND		3.0		ug/L			09/06/24 12:50	1
N-Propylbenzene	ND		1.0		ug/L			09/06/24 12:50	1
Naphthalene	ND		2.0		ug/L			09/06/24 12:50	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/24 12:50	1
Styrene	ND		1.0		ug/L			09/06/24 12:50	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/24 12:50	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/06/24 12:50	1
Toluene	ND		1.0		ug/L			09/06/24 12:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/24 12:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/06/24 12:50	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/06/24 12:50	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/24 12:50	1
Vinyl chloride	ND		1.0		ug/L			09/06/24 12:50	1
Xylenes, Total	ND		1.5		ug/L			09/06/24 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*09/06/24 12:50*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/06/24 12:50*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/06/24 12:50*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*09/06/24 12:50*	*1*

Lab Sample ID: STOBLK 885-11742/24
Matrix: Water
Analysis Batch: 11742

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/24 20:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/24 20:57	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/06/24 20:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/24 20:57	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/24 20:57	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/24 20:57	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/24 20:57	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/24 20:57	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/06/24 20:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/24 20:57	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/24 20:57	1

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

Lab Sample ID: STOBLK 885-11742/24
Matrix: Water
Analysis Batch: 11742

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/06/24 20:57	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/06/24 20:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/24 20:57	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/06/24 20:57	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/24 20:57	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/24 20:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/24 20:57	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/24 20:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/24 20:57	1
1-Methylnaphthalene	ND		4.0		ug/L			09/06/24 20:57	1
2,2-Dichloropropane	ND		2.0		ug/L			09/06/24 20:57	1
2-Butanone	ND		10		ug/L			09/06/24 20:57	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/24 20:57	1
2-Hexanone	ND		10		ug/L			09/06/24 20:57	1
2-Methylnaphthalene	ND		4.0		ug/L			09/06/24 20:57	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/24 20:57	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/24 20:57	1
4-Methyl-2-pentanone	ND		10		ug/L			09/06/24 20:57	1
Acetone	ND		10		ug/L			09/06/24 20:57	1
Benzene	ND		1.0		ug/L			09/06/24 20:57	1
Bromobenzene	ND		1.0		ug/L			09/06/24 20:57	1
Bromodichloromethane	ND		1.0		ug/L			09/06/24 20:57	1
Dibromochloromethane	ND		1.0		ug/L			09/06/24 20:57	1
Bromoform	ND		1.0		ug/L			09/06/24 20:57	1
Bromomethane	ND		3.0		ug/L			09/06/24 20:57	1
Carbon disulfide	ND		10		ug/L			09/06/24 20:57	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/24 20:57	1
Chlorobenzene	ND		1.0		ug/L			09/06/24 20:57	1
Chloroethane	ND		2.0		ug/L			09/06/24 20:57	1
Chloroform	ND		1.0		ug/L			09/06/24 20:57	1
Chloromethane	ND		3.0		ug/L			09/06/24 20:57	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/24 20:57	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/06/24 20:57	1
Dibromomethane	ND		1.0		ug/L			09/06/24 20:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/24 20:57	1
Ethylbenzene	ND		1.0		ug/L			09/06/24 20:57	1
Hexachlorobutadiene	ND		1.0		ug/L			09/06/24 20:57	1
Isopropylbenzene	ND		1.0		ug/L			09/06/24 20:57	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/06/24 20:57	1
Methylene Chloride	ND		3.0		ug/L			09/06/24 20:57	1
n-Butylbenzene	ND		3.0		ug/L			09/06/24 20:57	1
N-Propylbenzene	ND		1.0		ug/L			09/06/24 20:57	1
Naphthalene	ND		2.0		ug/L			09/06/24 20:57	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/24 20:57	1
Styrene	ND		1.0		ug/L			09/06/24 20:57	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/24 20:57	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/06/24 20:57	1
Toluene	ND		1.0		ug/L			09/06/24 20:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/24 20:57	1

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

Lab Sample ID: STOBLK 885-11742/24
Matrix: Water
Analysis Batch: 11742

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/06/24 20:57	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/06/24 20:57	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/24 20:57	1
Vinyl chloride	ND		1.0		ug/L			09/06/24 20:57	1
Xylenes, Total	ND		1.5		ug/L			09/06/24 20:57	1

Surrogate	*STOBLK %Recovery*	*STOBLK Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*09/06/24 20:57*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/06/24 20:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/06/24 20:57*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*09/06/24 20:57*	*1*

Lab Sample ID: LCS 885-11742/3
Matrix: Water
Analysis Batch: 11742

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	17.5		ug/L		87	70 - 130		
Benzene			20.1	19.8		ug/L		99	70 - 130		
Chlorobenzene			20.1	20.7		ug/L		103	70 - 130		
Toluene			20.2	20.3		ug/L		101	70 - 130		
Trichloroethene (TCE)			20.2	19.2		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-11586/3-A
Matrix: Water
Analysis Batch: 11773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11586

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010		ug/L		09/04/24 11:36	09/07/24 11:39	1

Lab Sample ID: LCS 885-11586/4-A
Matrix: Water
Analysis Batch: 11773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11586

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.100	0.0885		ug/L		89	70 - 130		

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 885-11586/5-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 11773
Prep Batch: 11586

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			0.100	0.0933		ug/L		93	70 - 130	5	20

Lab Sample ID: MRL 885-11586/1-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 11773
Prep Batch: 11586

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.0100	0.00874	J	ug/L		87	60 - 140		

GC/MS VOA

Analysis Batch: 11548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10663-1	MW-15	Total/NA	Water	8260B	
885-10663-2	MW-17	Total/NA	Water	8260B	
885-10663-3	MW-14	Total/NA	Water	8260B	
885-10663-4	BW-4	Total/NA	Water	8260B	
885-10663-5	BW-8	Total/NA	Water	8260B	
885-10663-7	BW-5	Total/NA	Water	8260B	
885-10663-8	MW-12	Total/NA	Water	8260B	
MB 885-11548/4	Method Blank	Total/NA	Water	8260B	
LCS 885-11548/3	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 11699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10663-5	BW-8	Total/NA	Water	8260B	
885-10663-9	MW-13	Total/NA	Water	8260B	
885-10663-10	BW-7R	Total/NA	Water	8260B	
885-10663-11	Trip Blank	Total/NA	Water	8260B	
MB 885-11699/4	Method Blank	Total/NA	Water	8260B	
LCS 885-11699/3	Lab Control Sample	Total/NA	Water	8260B	
885-10663-9 MS	MW-13	Total/NA	Water	8260B	
885-10663-9 MSD	MW-13	Total/NA	Water	8260B	

Analysis Batch: 11742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10663-5	BW-8	Total/NA	Water	8260B	
885-10663-6	BW-7	Total/NA	Water	8260B	
885-10663-8	MW-12	Total/NA	Water	8260B	
MB 885-11742/1004	Method Blank	Total/NA	Water	8260B	
MB 885-11742/4	Method Blank	Total/NA	Water	8260B	
STOBLK 885-11742/24	Method Blank	Total/NA	Water	8260B	
LCS 885-11742/3	Lab Control Sample	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 11586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10663-1	MW-15	Total/NA	Water	8011	
885-10663-2	MW-17	Total/NA	Water	8011	
885-10663-3	MW-14	Total/NA	Water	8011	
885-10663-4	BW-4	Total/NA	Water	8011	
885-10663-5	BW-8	Total/NA	Water	8011	
885-10663-6	BW-7	Total/NA	Water	8011	
885-10663-7	BW-5	Total/NA	Water	8011	
885-10663-8	MW-12	Total/NA	Water	8011	
885-10663-9	MW-13	Total/NA	Water	8011	
885-10663-10	BW-7R	Total/NA	Water	8011	
885-10663-11	Trip Blank	Total/NA	Water	8011	
MB 885-11586/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-11586/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-11586/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-11586/1-A	Lab Control Sample	Total/NA	Water	8011	

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10663-1

GC Semi VOA

Analysis Batch: 11773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10663-1	MW-15	Total/NA	Water	8011	11586
885-10663-2	MW-17	Total/NA	Water	8011	11586
885-10663-3	MW-14	Total/NA	Water	8011	11586
885-10663-4	BW-4	Total/NA	Water	8011	11586
885-10663-5	BW-8	Total/NA	Water	8011	11586
885-10663-6	BW-7	Total/NA	Water	8011	11586
885-10663-7	BW-5	Total/NA	Water	8011	11586
885-10663-8	MW-12	Total/NA	Water	8011	11586
885-10663-9	MW-13	Total/NA	Water	8011	11586
885-10663-10	BW-7R	Total/NA	Water	8011	11586
885-10663-11	Trip Blank	Total/NA	Water	8011	11586
MB 885-11586/3-A	Method Blank	Total/NA	Water	8011	11586
LCS 885-11586/4-A	Lab Control Sample	Total/NA	Water	8011	11586
LCSD 885-11586/5-A	Lab Control Sample Dup	Total/NA	Water	8011	11586
MRL 885-11586/1-A	Lab Control Sample	Total/NA	Water	8011	11586

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: MW-15
Lab Sample ID: 885-10663-1
Date Collected: 08/26/24 14:25
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	11548	JR	EET ALB	09/04/24 16:36
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 13:22

Client Sample ID: MW-17
Lab Sample ID: 885-10663-2
Date Collected: 08/26/24 14:50
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	11548	JR	EET ALB	09/04/24 17:05
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 13:39

Client Sample ID: MW-14
Lab Sample ID: 885-10663-3
Date Collected: 08/26/24 14:00
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	11548	JR	EET ALB	09/04/24 17:34
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 13:56

Client Sample ID: BW-4
Lab Sample ID: 885-10663-4
Date Collected: 08/26/24 15:25
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	11548	JR	EET ALB	09/04/24 18:02
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 14:14

Client Sample ID: BW-8
Lab Sample ID: 885-10663-5
Date Collected: 08/26/24 16:50
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	11699	CM	EET ALB	09/05/24 21:47
Total/NA	Analysis	8260B		50	11742	CM	EET ALB	09/06/24 13:14
Total/NA	Analysis	8260B		5	11548	JR	EET ALB	09/04/24 18:31
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 14:48

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: BW-7
Lab Sample ID: 885-10663-6
Date Collected: 08/26/24 17:20
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	11742	CM	EET ALB	09/06/24 14:03
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 15:05

Client Sample ID: BW-5
Lab Sample ID: 885-10663-7
Date Collected: 08/26/24 17:55
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	11548	JR	EET ALB	09/04/24 19:28
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 15:22

Client Sample ID: MW-12
Lab Sample ID: 885-10663-8
Date Collected: 08/26/24 13:00
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	11742	CM	EET ALB	09/06/24 14:28
Total/NA	Analysis	8260B		1	11548	JR	EET ALB	09/04/24 19:57
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 15:39

Client Sample ID: MW-13
Lab Sample ID: 885-10663-9
Date Collected: 08/25/24 17:55
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	11699	CM	EET ALB	09/05/24 17:18
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 15:56

Client Sample ID: BW-7R
Lab Sample ID: 885-10663-10
Date Collected: 08/25/24 18:30
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	11699	CM	EET ALB	09/05/24 18:56
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 16:14

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-10663-11
Date Collected: 08/25/24 00:00
Matrix: Water
Date Received: 08/27/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	11699	CM	EET ALB	09/05/24 19:45
Total/NA	Prep	8011			11586	MB	EET ALB	09/04/24 11:39
Total/NA	Analysis	8011		1	11773	DH	EET ALB	09/07/24 16:31

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10663-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2-Dibromoethane (EDB)
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2-Dibromoethane (EDB)

Chain-of-Custody Record

Client: Daniel B. Stephens & Associates

Mailing Address: 6020 Academy Rd. NE STE 100, Albuquerque NM 87109

Phone #: 505-822-9400

email or Fax#: gherrmann@geo-logic.com

QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: ☒ Standard ☐ Rush

Project Name: Former Y Station State Lead Sto

Project #: DB18.1157

Project Manager: Grace Herrmann

Sampler: M. Salazar & I. Torres

On Ice: ☒ Yes ☐ No

# of Coolers: 1 YOG1

Cooler Temp(including CF): 0.1+0=0.1 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-10663 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
08/26	1425		MW-15	5 VOAs		1				X				X		
08/26	1450		MW-17	5 VOAs		2				X				X		
08/26	~~1516~~ 1400		MW-14	5 VOAs		3				X				X		
08/26	1525		BW-4	5 VOAs		4				X				X		
08/26	1650		BW-8	5 VOAs		5				X				X		
08/26	1720		BW-7	5 VOAs		6				X				X		
08/26	1755		BW-5	5 VOAs		7				X				X		
08/26	1300		MW-12	5 VOAs		8				X				X		
08/25	1755		MW-13	5 VOAs		9				X				X		
08/25	1830		BW-7R	5 VOAs		10				X				X		

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
08/27	1200		SCM	CDO	8/27/21	1700
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-10663-1

Login Number: 10663

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 9/23/2024 12:04:04 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-10987-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

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

Authorization



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9/23/2024 12:04:04 PM

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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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: 885-10987-1 Eurofins Albuquerque

Job Narrative
885-10987-1

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 8/30/2024 4:41 PM. 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 11.7°C.

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

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

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-10987-1

Client Sample ID: RW-3
Date Collected: 08/30/24 10:19
Date Received: 08/30/24 16:41

Lab Sample ID: 885-10987-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/10/24 15:33	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/10/24 15:33	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/10/24 15:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/10/24 15:33	1
1,1-Dichloroethane	ND		1.0		ug/L			09/10/24 15:33	1
1,1-Dichloroethene	ND		1.0		ug/L			09/10/24 15:33	1
1,1-Dichloropropene	ND		1.0		ug/L			09/10/24 15:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/10/24 15:33	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/10/24 15:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/10/24 15:33	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/10/24 15:33	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/10/24 15:33	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/10/24 15:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/10/24 15:33	1
1,2-Dichloroethane (EDC)	**2.4**		1.0		ug/L			09/10/24 15:33	1
1,2-Dichloropropane	ND		1.0		ug/L			09/10/24 15:33	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/10/24 15:33	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/10/24 15:33	1
1,3-Dichloropropane	ND		1.0		ug/L			09/10/24 15:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/10/24 15:33	1
1-Methylnaphthalene	ND		4.0		ug/L			09/10/24 15:33	1
2,2-Dichloropropane	ND		2.0		ug/L			09/10/24 15:33	1
2-Butanone	**11**		10		ug/L			09/10/24 15:33	1
2-Chlorotoluene	ND		1.0		ug/L			09/10/24 15:33	1
2-Hexanone	ND		10		ug/L			09/10/24 15:33	1
2-Methylnaphthalene	ND		4.0		ug/L			09/10/24 15:33	1
4-Chlorotoluene	ND		1.0		ug/L			09/10/24 15:33	1
4-Isopropyltoluene	ND		1.0		ug/L			09/10/24 15:33	1
4-Methyl-2-pentanone	ND		10		ug/L			09/10/24 15:33	1
Acetone	**43**		10		ug/L			09/11/24 14:45	1
Benzene	**7.6**		1.0		ug/L			09/10/24 15:33	1
Bromobenzene	ND		1.0		ug/L			09/10/24 15:33	1
Bromodichloromethane	**4.9**		1.0		ug/L			09/10/24 15:33	1
Dibromochloromethane	**2.9**		1.0		ug/L			09/10/24 15:33	1
Bromoform	**5.1**		1.0		ug/L			09/10/24 15:33	1
Bromomethane	ND		3.0		ug/L			09/10/24 15:33	1
Carbon disulfide	ND		10		ug/L			09/10/24 15:33	1
Carbon tetrachloride	ND		1.0		ug/L			09/10/24 15:33	1
Chlorobenzene	ND		1.0		ug/L			09/10/24 15:33	1
Chloroethane	ND		2.0		ug/L			09/10/24 15:33	1
Chloroform	**3.8**		1.0		ug/L			09/10/24 15:33	1
Chloromethane	ND		3.0		ug/L			09/10/24 15:33	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/10/24 15:33	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/10/24 15:33	1
Dibromomethane	**2.2**		1.0		ug/L			09/10/24 15:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/10/24 15:33	1
Ethylbenzene	ND		1.0		ug/L			09/10/24 15:33	1
Hexachlorobutadiene	ND		1.0		ug/L			09/10/24 15:33	1
Isopropylbenzene	ND		1.0		ug/L			09/10/24 15:33	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10987-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: RW-3
Lab Sample ID: 885-10987-1
Date Collected: 08/30/24 10:19
Matrix: Water
Date Received: 08/30/24 16:41

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/10/24 15:33	1
Methylene Chloride	ND		3.0		ug/L			09/10/24 15:33	1
n-Butylbenzene	ND		3.0		ug/L			09/10/24 15:33	1
N-Propylbenzene	ND		1.0		ug/L			09/10/24 15:33	1
Naphthalene	ND		2.0		ug/L			09/10/24 15:33	1
sec-Butylbenzene	ND		1.0		ug/L			09/10/24 15:33	1
Styrene	ND		1.0		ug/L			09/10/24 15:33	1
tert-Butylbenzene	ND		1.0		ug/L			09/10/24 15:33	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/10/24 15:33	1
Toluene	**1.6**		1.0		ug/L			09/10/24 15:33	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/10/24 15:33	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/10/24 15:33	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/10/24 15:33	1
Trichlorofluoromethane	ND		1.0		ug/L			09/10/24 15:33	1
Vinyl chloride	ND		1.0		ug/L			09/10/24 15:33	1
Xylenes, Total	ND		1.5		ug/L			09/10/24 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/10/24 15:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*09/11/24 14:45*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/10/24 15:33*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/11/24 14:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/10/24 15:33*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/11/24 14:45*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*09/10/24 15:33*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*09/11/24 14:45*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0091		ug/L		09/09/24 08:53	09/19/24 21:52	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10987-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-10987-2
Date Collected: 08/30/24 00:00
Matrix: Water
Date Received: 08/30/24 16:41

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/10/24 15:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/10/24 15:58	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/10/24 15:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/10/24 15:58	1
1,1-Dichloroethane	ND		1.0		ug/L			09/10/24 15:58	1
1,1-Dichloroethene	ND		1.0		ug/L			09/10/24 15:58	1
1,1-Dichloropropene	ND		1.0		ug/L			09/10/24 15:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/10/24 15:58	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/10/24 15:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/10/24 15:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/10/24 15:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/10/24 15:58	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/10/24 15:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/10/24 15:58	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/10/24 15:58	1
1,2-Dichloropropane	ND		1.0		ug/L			09/10/24 15:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/10/24 15:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/10/24 15:58	1
1,3-Dichloropropane	ND		1.0		ug/L			09/10/24 15:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/10/24 15:58	1
1-Methylnaphthalene	ND		4.0		ug/L			09/10/24 15:58	1
2,2-Dichloropropane	ND		2.0		ug/L			09/10/24 15:58	1
2-Butanone	ND		10		ug/L			09/10/24 15:58	1
2-Chlorotoluene	ND		1.0		ug/L			09/10/24 15:58	1
2-Hexanone	ND		10		ug/L			09/10/24 15:58	1
2-Methylnaphthalene	ND		4.0		ug/L			09/10/24 15:58	1
4-Chlorotoluene	ND		1.0		ug/L			09/10/24 15:58	1
4-Isopropyltoluene	ND		1.0		ug/L			09/10/24 15:58	1
4-Methyl-2-pentanone	ND		10		ug/L			09/10/24 15:58	1
Acetone	ND		10		ug/L			09/10/24 15:58	1
Benzene	ND		1.0		ug/L			09/10/24 15:58	1
Bromobenzene	ND		1.0		ug/L			09/10/24 15:58	1
Bromodichloromethane	ND		1.0		ug/L			09/10/24 15:58	1
Dibromochloromethane	ND		1.0		ug/L			09/10/24 15:58	1
Bromoform	ND		1.0		ug/L			09/10/24 15:58	1
Bromomethane	ND		3.0		ug/L			09/10/24 15:58	1
Carbon disulfide	ND		10		ug/L			09/10/24 15:58	1
Carbon tetrachloride	ND		1.0		ug/L			09/10/24 15:58	1
Chlorobenzene	ND		1.0		ug/L			09/10/24 15:58	1
Chloroethane	ND		2.0		ug/L			09/10/24 15:58	1
Chloroform	ND		1.0		ug/L			09/10/24 15:58	1
Chloromethane	ND		3.0		ug/L			09/10/24 15:58	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/10/24 15:58	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/10/24 15:58	1
Dibromomethane	ND		1.0		ug/L			09/10/24 15:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/10/24 15:58	1
Ethylbenzene	ND		1.0		ug/L			09/10/24 15:58	1
Hexachlorobutadiene	ND		1.0		ug/L			09/10/24 15:58	1
Isopropylbenzene	ND		1.0		ug/L			09/10/24 15:58	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10987-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank **Lab Sample ID: 885-10987-2**
Date Collected: 08/30/24 00:00 **Matrix: Water**
Date Received: 08/30/24 16:41

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/10/24 15:58	1
Methylene Chloride	ND		3.0		ug/L			09/10/24 15:58	1
n-Butylbenzene	ND		3.0		ug/L			09/10/24 15:58	1
N-Propylbenzene	ND		1.0		ug/L			09/10/24 15:58	1
Naphthalene	ND		2.0		ug/L			09/10/24 15:58	1
sec-Butylbenzene	ND		1.0		ug/L			09/10/24 15:58	1
Styrene	ND		1.0		ug/L			09/10/24 15:58	1
tert-Butylbenzene	ND		1.0		ug/L			09/10/24 15:58	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/10/24 15:58	1
Toluene	ND		1.0		ug/L			09/10/24 15:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/10/24 15:58	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/10/24 15:58	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/10/24 15:58	1
Trichlorofluoromethane	ND		1.0		ug/L			09/10/24 15:58	1
Vinyl chloride	ND		1.0		ug/L			09/10/24 15:58	1
Xylenes, Total	ND		1.5		ug/L			09/10/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/10/24 15:58*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/10/24 15:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/10/24 15:58*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/10/24 15:58*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0091		ug/L		09/09/24 08:53	09/19/24 22:07	1

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

Lab Sample ID: MB 885-11903/5
Matrix: Water
Analysis Batch: 11903

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/10/24 11:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/10/24 11:29	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/10/24 11:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/10/24 11:29	1
1,1-Dichloroethane	ND		1.0		ug/L			09/10/24 11:29	1
1,1-Dichloroethene	ND		1.0		ug/L			09/10/24 11:29	1
1,1-Dichloropropene	ND		1.0		ug/L			09/10/24 11:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/10/24 11:29	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/10/24 11:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/10/24 11:29	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/10/24 11:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/10/24 11:29	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/10/24 11:29	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/10/24 11:29	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/10/24 11:29	1
1,2-Dichloropropane	ND		1.0		ug/L			09/10/24 11:29	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/10/24 11:29	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/10/24 11:29	1
1,3-Dichloropropane	ND		1.0		ug/L			09/10/24 11:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/10/24 11:29	1
1-Methylnaphthalene	ND		4.0		ug/L			09/10/24 11:29	1
2,2-Dichloropropane	ND		2.0		ug/L			09/10/24 11:29	1
2-Butanone	ND		10		ug/L			09/10/24 11:29	1
2-Chlorotoluene	ND		1.0		ug/L			09/10/24 11:29	1
2-Hexanone	ND		10		ug/L			09/10/24 11:29	1
2-Methylnaphthalene	ND		4.0		ug/L			09/10/24 11:29	1
4-Chlorotoluene	ND		1.0		ug/L			09/10/24 11:29	1
4-Isopropyltoluene	ND		1.0		ug/L			09/10/24 11:29	1
4-Methyl-2-pentanone	ND		10		ug/L			09/10/24 11:29	1
Acetone	ND		10		ug/L			09/10/24 11:29	1
Benzene	ND		1.0		ug/L			09/10/24 11:29	1
Bromobenzene	ND		1.0		ug/L			09/10/24 11:29	1
Bromodichloromethane	ND		1.0		ug/L			09/10/24 11:29	1
Dibromochloromethane	ND		1.0		ug/L			09/10/24 11:29	1
Bromoform	ND		1.0		ug/L			09/10/24 11:29	1
Bromomethane	ND		3.0		ug/L			09/10/24 11:29	1
Carbon disulfide	ND		10		ug/L			09/10/24 11:29	1
Carbon tetrachloride	ND		1.0		ug/L			09/10/24 11:29	1
Chlorobenzene	ND		1.0		ug/L			09/10/24 11:29	1
Chloroethane	ND		2.0		ug/L			09/10/24 11:29	1
Chloroform	ND		1.0		ug/L			09/10/24 11:29	1
Chloromethane	ND		3.0		ug/L			09/10/24 11:29	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/10/24 11:29	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/10/24 11:29	1
Dibromomethane	ND		1.0		ug/L			09/10/24 11:29	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/10/24 11:29	1
Ethylbenzene	ND		1.0		ug/L			09/10/24 11:29	1
Hexachlorobutadiene	ND		1.0		ug/L			09/10/24 11:29	1

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

Lab Sample ID: MB 885-11903/5
Matrix: Water
Analysis Batch: 11903

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			09/10/24 11:29	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/10/24 11:29	1
Methylene Chloride	ND		3.0		ug/L			09/10/24 11:29	1
n-Butylbenzene	ND		3.0		ug/L			09/10/24 11:29	1
N-Propylbenzene	ND		1.0		ug/L			09/10/24 11:29	1
Naphthalene	ND		2.0		ug/L			09/10/24 11:29	1
sec-Butylbenzene	ND		1.0		ug/L			09/10/24 11:29	1
Styrene	ND		1.0		ug/L			09/10/24 11:29	1
tert-Butylbenzene	ND		1.0		ug/L			09/10/24 11:29	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/10/24 11:29	1
Toluene	ND		1.0		ug/L			09/10/24 11:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/10/24 11:29	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/10/24 11:29	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/10/24 11:29	1
Trichlorofluoromethane	ND		1.0		ug/L			09/10/24 11:29	1
Vinyl chloride	ND		1.0		ug/L			09/10/24 11:29	1
Xylenes, Total	ND		1.5		ug/L			09/10/24 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/10/24 11:29*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/10/24 11:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/10/24 11:29*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/10/24 11:29*	*1*

Lab Sample ID: LCS 885-11903/4
Matrix: Water
Analysis Batch: 11903

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	22.5		ug/L		112	70 - 130		
Benzene			20.1	23.7		ug/L		118	70 - 130		
Chlorobenzene			20.1	22.9		ug/L		114	70 - 130		
Toluene			20.2	22.4		ug/L		111	70 - 130		
Trichloroethene (TCE)			20.2	22.9		ug/L		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 885-12001/5
Matrix: Water
Analysis Batch: 12001

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/11/24 13:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/11/24 13:07	1

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

Lab Sample ID: MB 885-12001/5
Matrix: Water
Analysis Batch: 12001

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/11/24 13:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/11/24 13:07	1
1,1-Dichloroethane	ND		1.0		ug/L			09/11/24 13:07	1
1,1-Dichloroethene	ND		1.0		ug/L			09/11/24 13:07	1
1,1-Dichloropropene	ND		1.0		ug/L			09/11/24 13:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/11/24 13:07	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/11/24 13:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/11/24 13:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/11/24 13:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/11/24 13:07	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/11/24 13:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/11/24 13:07	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/11/24 13:07	1
1,2-Dichloropropane	ND		1.0		ug/L			09/11/24 13:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/11/24 13:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/11/24 13:07	1
1,3-Dichloropropane	ND		1.0		ug/L			09/11/24 13:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/11/24 13:07	1
1-Methylnaphthalene	ND		4.0		ug/L			09/11/24 13:07	1
2,2-Dichloropropane	ND		2.0		ug/L			09/11/24 13:07	1
2-Butanone	ND		10		ug/L			09/11/24 13:07	1
2-Chlorotoluene	ND		1.0		ug/L			09/11/24 13:07	1
2-Hexanone	ND		10		ug/L			09/11/24 13:07	1
2-Methylnaphthalene	ND		4.0		ug/L			09/11/24 13:07	1
4-Chlorotoluene	ND		1.0		ug/L			09/11/24 13:07	1
4-Isopropyltoluene	ND		1.0		ug/L			09/11/24 13:07	1
4-Methyl-2-pentanone	ND		10		ug/L			09/11/24 13:07	1
Acetone	ND		10		ug/L			09/11/24 13:07	1
Benzene	ND		1.0		ug/L			09/11/24 13:07	1
Bromobenzene	ND		1.0		ug/L			09/11/24 13:07	1
Bromodichloromethane	ND		1.0		ug/L			09/11/24 13:07	1
Dibromochloromethane	ND		1.0		ug/L			09/11/24 13:07	1
Bromoform	ND		1.0		ug/L			09/11/24 13:07	1
Bromomethane	ND		3.0		ug/L			09/11/24 13:07	1
Carbon disulfide	ND		10		ug/L			09/11/24 13:07	1
Carbon tetrachloride	ND		1.0		ug/L			09/11/24 13:07	1
Chlorobenzene	ND		1.0		ug/L			09/11/24 13:07	1
Chloroethane	ND		2.0		ug/L			09/11/24 13:07	1
Chloroform	ND		1.0		ug/L			09/11/24 13:07	1
Chloromethane	ND		3.0		ug/L			09/11/24 13:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/11/24 13:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/11/24 13:07	1
Dibromomethane	ND		1.0		ug/L			09/11/24 13:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/11/24 13:07	1
Ethylbenzene	ND		1.0		ug/L			09/11/24 13:07	1
Hexachlorobutadiene	ND		1.0		ug/L			09/11/24 13:07	1
Isopropylbenzene	ND		1.0		ug/L			09/11/24 13:07	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/11/24 13:07	1
Methylene Chloride	ND		3.0		ug/L			09/11/24 13:07	1

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

Lab Sample ID: MB 885-12001/5
Matrix: Water
Analysis Batch: 12001

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		3.0		ug/L			09/11/24 13:07	1
N-Propylbenzene	ND		1.0		ug/L			09/11/24 13:07	1
Naphthalene	ND		2.0		ug/L			09/11/24 13:07	1
sec-Butylbenzene	ND		1.0		ug/L			09/11/24 13:07	1
Styrene	ND		1.0		ug/L			09/11/24 13:07	1
tert-Butylbenzene	ND		1.0		ug/L			09/11/24 13:07	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/11/24 13:07	1
Toluene	ND		1.0		ug/L			09/11/24 13:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/11/24 13:07	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/11/24 13:07	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/11/24 13:07	1
Trichlorofluoromethane	ND		1.0		ug/L			09/11/24 13:07	1
Vinyl chloride	ND		1.0		ug/L			09/11/24 13:07	1
Xylenes, Total	ND		1.5		ug/L			09/11/24 13:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*09/11/24 13:07*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/11/24 13:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/11/24 13:07*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/11/24 13:07*	*1*

Lab Sample ID: STOBLK 885-12001/45
Matrix: Water
Analysis Batch: 12001

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/12/24 05:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/12/24 05:48	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/12/24 05:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/12/24 05:48	1
1,1-Dichloroethane	ND		1.0		ug/L			09/12/24 05:48	1
1,1-Dichloroethene	ND		1.0		ug/L			09/12/24 05:48	1
1,1-Dichloropropene	ND		1.0		ug/L			09/12/24 05:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/12/24 05:48	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/12/24 05:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/12/24 05:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/12/24 05:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/12/24 05:48	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/12/24 05:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/12/24 05:48	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/12/24 05:48	1
1,2-Dichloropropane	ND		1.0		ug/L			09/12/24 05:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/12/24 05:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/12/24 05:48	1
1,3-Dichloropropane	ND		1.0		ug/L			09/12/24 05:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/12/24 05:48	1
1-Methylnaphthalene	ND		4.0		ug/L			09/12/24 05:48	1
2,2-Dichloropropane	ND		2.0		ug/L			09/12/24 05:48	1

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

Lab Sample ID: STOBLK 885-12001/45
Matrix: Water
Analysis Batch: 12001

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			09/12/24 05:48	1
2-Chlorotoluene	ND		1.0		ug/L			09/12/24 05:48	1
2-Hexanone	ND		10		ug/L			09/12/24 05:48	1
2-Methylnaphthalene	ND		4.0		ug/L			09/12/24 05:48	1
4-Chlorotoluene	ND		1.0		ug/L			09/12/24 05:48	1
4-Isopropyltoluene	ND		1.0		ug/L			09/12/24 05:48	1
4-Methyl-2-pentanone	ND		10		ug/L			09/12/24 05:48	1
Acetone	ND		10		ug/L			09/12/24 05:48	1
Benzene	ND		1.0		ug/L			09/12/24 05:48	1
Bromobenzene	ND		1.0		ug/L			09/12/24 05:48	1
Bromodichloromethane	ND		1.0		ug/L			09/12/24 05:48	1
Dibromochloromethane	ND		1.0		ug/L			09/12/24 05:48	1
Bromoform	ND		1.0		ug/L			09/12/24 05:48	1
Bromomethane	ND		3.0		ug/L			09/12/24 05:48	1
Carbon disulfide	ND		10		ug/L			09/12/24 05:48	1
Carbon tetrachloride	ND		1.0		ug/L			09/12/24 05:48	1
Chlorobenzene	ND		1.0		ug/L			09/12/24 05:48	1
Chloroethane	ND		2.0		ug/L			09/12/24 05:48	1
Chloroform	ND		1.0		ug/L			09/12/24 05:48	1
Chloromethane	ND		3.0		ug/L			09/12/24 05:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/12/24 05:48	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/12/24 05:48	1
Dibromomethane	ND		1.0		ug/L			09/12/24 05:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/12/24 05:48	1
Ethylbenzene	ND		1.0		ug/L			09/12/24 05:48	1
Hexachlorobutadiene	ND		1.0		ug/L			09/12/24 05:48	1
Isopropylbenzene	ND		1.0		ug/L			09/12/24 05:48	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/12/24 05:48	1
Methylene Chloride	ND		3.0		ug/L			09/12/24 05:48	1
n-Butylbenzene	ND		3.0		ug/L			09/12/24 05:48	1
N-Propylbenzene	ND		1.0		ug/L			09/12/24 05:48	1
Naphthalene	ND		2.0		ug/L			09/12/24 05:48	1
sec-Butylbenzene	ND		1.0		ug/L			09/12/24 05:48	1
Styrene	ND		1.0		ug/L			09/12/24 05:48	1
tert-Butylbenzene	ND		1.0		ug/L			09/12/24 05:48	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/12/24 05:48	1
Toluene	ND		1.0		ug/L			09/12/24 05:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/12/24 05:48	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/12/24 05:48	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/12/24 05:48	1
Trichlorofluoromethane	ND		1.0		ug/L			09/12/24 05:48	1
Vinyl chloride	ND		1.0		ug/L			09/12/24 05:48	1
Xylenes, Total	ND		1.5		ug/L			09/12/24 05:48	1

Surrogate	*STOBLK %Recovery*	*STOBLK Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*09/12/24 05:48*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/12/24 05:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/12/24 05:48*	*1*

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

Lab Sample ID: STOBLK 885-12001/45
Matrix: Water
Analysis Batch: 12001

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

Surrogate	STOBLK %Recovery	STOBLK Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*09/12/24 05:48*	*1*

Lab Sample ID: LCS 885-12001/4
Matrix: Water
Analysis Batch: 12001

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	21.5		ug/L		107	70 - 130		
Benzene			20.1	22.4		ug/L		112	70 - 130		
Chlorobenzene			20.1	22.5		ug/L		112	70 - 130		
Toluene			20.2	22.4		ug/L		111	70 - 130		
Trichloroethene (TCE)			20.2	21.7		ug/L		107	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10987-1
Project/Site: Former Y Station State Lead Site

GC/MS VOA

Analysis Batch: 11903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10987-1	RW-3	Total/NA	Water	8260B	
885-10987-2	Trip Blank	Total/NA	Water	8260B	
MB 885-11903/5	Method Blank	Total/NA	Water	8260B	
LCS 885-11903/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 12001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10987-1	RW-3	Total/NA	Water	8260B	
MB 885-12001/5	Method Blank	Total/NA	Water	8260B	
STOBLK 885-12001/45	Method Blank	Total/NA	Water	8260B	
LCS 885-12001/4	Lab Control Sample	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 11824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10987-1	RW-3	Total/NA	Water	8011	
885-10987-2	Trip Blank	Total/NA	Water	8011	

Analysis Batch: 12592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10987-1	RW-3	Total/NA	Water	8011	11824
885-10987-2	Trip Blank	Total/NA	Water	8011	11824

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-10987-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: RW-3
Lab Sample ID: 885-10987-1

Date Collected: 08/30/24 10:19
Matrix: Water
Date Received: 08/30/24 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	11903	CM	EET ALB	09/10/24 15:33
Total/NA	Analysis	8260B		1	12001	CM	EET ALB	09/11/24 14:45
Total/NA	Prep	8011			11824	MB	EET ALB	09/09/24 08:53
Total/NA	Analysis	8011		1	12592	DH	EET ALB	09/19/24 21:52

Client Sample ID: Trip Blank
Lab Sample ID: 885-10987-2

Date Collected: 08/30/24 00:00
Matrix: Water
Date Received: 08/30/24 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	11903	CM	EET ALB	09/10/24 15:58
Total/NA	Prep	8011			11824	MB	EET ALB	09/09/24 08:53
Total/NA	Analysis	8011		1	12592	DH	EET ALB	09/19/24 22:07

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-10987-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2-Dibromoethane (EDB)
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2-Dibromoethane (EDB)

Chain-of-Custody Record

Client: DBSA

Mailing Address: 6020 Academy Rd NE STE 100, Albuquerque NM 87109

Phone #: 505-822-9400

email or Fax#: Gherrmann@geo-logic.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Former Y Station State lead Site

Project #: DB18.1157

Project Manager: Grace Herrmann

Sampler: B. Garstand

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 11.4 +0.3 = 11.7 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-10987 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/30/24	10:19	GW	RW-3	5 VOA's	HCL/SOTH	1				X				X		
			Trip Blank													

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/30/24	16:41		Bernadette	QBO	8-30-24	1641
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-10987-1

Login Number: 10987

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
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.	False	Received same day of collection; chilling process has begun.
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	

Appendix E

Mass Removal Calculations

DBS&A
a Geo-Logic Company

DBS&A a Geo-Logic Company

Calculation Cover Sheet

Project Name Former Y Station State Lead Site Project Number DB18.1157

Calculation Number 001 Discipline Environmental No. of Sheets 8

PROJECT:

Former Y Station State Lead Site

SITE:

1905 N Prince St, Clovis, NM 88101



SUBJECT:

Hydrocarbon Mass Removal Calculation

SOURCES OF DATA:

A. System operations summary data recorded by DBS&A staff

B. Summary of Analytical Organic Chemistry Data for Soil Vapor, DBS&A. (Results reported by Hall Environmental Analysis Laboratory)

C. Fundamentals of Fluid Mechanics - Munson et al, 2006

D. "Conversion Unmasked" - Rong and Yu, 1996

SOURCES OF FORMULAE & REFERENCES:

1. Rotameter Flow Measurement, January 29, 2010

2. Alnor HVAC Handbook, 2007

☒ Preliminary Calculation ☐ Final Calculation Supersedes Calculation No. ____

Rev. No.	Revision	Calculation By	Date	Checked By	Date	Approved By	Date
0	Startup / As-Built Report	ANT	12/06/2023	TG	12/08/2023	TG	12/27/2023
1	1st GWM Report	TG	2/12/2024	GMH	2/16/2024	TG	2/16/2024

DBS&A a Geo-Logic Company

Calculation Sheet

Project No. DB18.1157 Date 12/6/2023

Subject Hydrocarbon Mass Removal Calculation Sheet 1 of 7

By A. Nuñez-Thompson Checked By T. Golden Calculation No. 001

1. Purpose

- Calculate the total mass of hydrocarbons removed by the remediation system, including the soil vapor extraction (SVE) and groundwater extraction components
- Calculate the hydrocarbon destruction efficiency of the SVE system
- Calculate the hydrocarbon emission rates from the SVE system

2. Given

- System operations data recorded by technical staff, including air flow rate in cubic feet per minute [cfm] or standard cfm and totalized water flow in gallons; blower effluent temperature, vacuum, hours of operation; and influent and effluent concentrations as measured with a PID [A]
- Total petroleum hydrocarbons as gasoline and diesel range organics (TPH GRO and DRO) concentrations from laboratory analyses of soil vapor and groundwater samples [B]
- Absolute atmospheric pressure, P_{atm}, in Clovis, NM at an elevation of 4,280 feet above mean sea level (ft msl) is 12.53 pounds per square inch (psi) (linearly interpolated from the reference) [C]
- Conversion factor of 4.16 from gasoline concentrations measured in parts per million by volume (ppmv) to micrograms per liter (µg/L) [D]

3. Method

Methods for calculating air flow rates and hydrocarbon mass removal, destruction efficiency, and emission rates are provided below.

3.1 Air Flow Rates

The combined influent flow rate for the SVE system is reported in standard cubic feet per minute (scfm). Calculate the actual (Q_{acfm}) system air flow rates based on the standard system flow and the actual pressure and temperature relative to standard conditions (14.7 psi and 530 degrees Rankine) using equations 1 and 2. [1]

$$Q_{acfm} = Q_{scfm} \cdot \frac{P_{std}}{P_{actual}} \cdot \frac{T_{actual}}{T_{std}} \quad (1)$$

3.2 Mass Removal by Laboratory Analysis

The first mass removal calculation is performed using laboratory analyses of concentrations of total petroleum hydrocarbons as gasoline range organics (TPH GRO) in µg/L[B] and the air flow rate. Laboratory concentrations (C_{lab}, mass per volume) are first converted to a volume of air under standard conditions, C_{std} (Hall Environmental Analysis Laboratory stated that concentrations are reported under actual laboratory conditions):

$$C_{std} = C_{lab} \cdot \left(\frac{P_{std}}{P_{lab}} \cdot \frac{T_{lab}}{T_{std}} \right) \quad (2)$$

The combined well influent air flow rate (measured in the same point in the process as the laboratory samples) is recorded by the MPE system in standard cfm using an averaging pitot tube.[2] The standard combined well influent concentration of TPH (GRO), mass per volume, is multiplied by the standard air flow, volume per time, and the equipment run time to obtain the mass of hydrocarbons removed.

Laboratory analysis of groundwater is used with similar methodology to calculate mass removal from the groundwater extraction component of the remediation system. The groundwater concentration, mass per volume, is multiplied by a measured volume of groundwater extracted over the period of operation. Mass of both TPH and gasoline constituents of benzene, toluene, ethylbenzene, and total xylenes (BTEX) are evaluated to estimate approximate mass of gasoline-equivalent hydrocarbons in the groundwater medium, with the maximum of the two values taken.

3.3 Mass Removal by PID Analysis

A second mass removal calculation is performed using PID field screening readings[A] measured in ppmv and the air flow rate. PID readings are first converted from volumetric concentrations (ppmv) to mass-based concentrations (µg/L) using a factor of 4.16[D]. The combined well influent air flow rate (measured in the same point in the process as the PID samples) is recorded by the SVE system in standard cfm using an averaging pitot tube.[4] The standard combined well influent PID reading is multiplied by the standard air flow and the equipment run time to obtain the mass of hydrocarbons removed, similar to the method above.

3.4 Destruction Efficiency

System destruction efficiency (DE) is computed based on the system influent and effluent laboratory concentrations (C_{inf} and C_{eff}):

$$DE = (C_{inf} - C_{eff}) / (C_{inf}) \quad (3)$$

3.5 Emission Rates

Estimated hydrocarbon emission rates are calculated based on the oxidizer standard effluent concentration of TPH (GRO) and an assumed oxidizer standard effluent air flow rate. The effluent concentration is converted to a volume of air under standard conditions using equation 2. The effluent air flow rate will include well flow, dilution air, combustion air, and tertiary (cooling) air, where applicable. The SVE system is estimated conservatively to have a discharge air flow rate of 1,000 scfm.

4. Solution

Sample calculations are provided below for a period between November 1 and November 9 (laboratory samples collected on November 1 and November 9), with calculations summarized in attached spreadsheets. Removal by the groundwater treatment system is calculated based on a laboratory sample collected on November 9, 2023.

4.1 Air Flow Rates

The standard combined well influent flow rate, Q_{scfm}, during the period of 138 hours is 750 scfm, combined well vacuum, P_{vac}, is 50 inches of water column (" H_2O). Calculate the actual system flow rate, Q_{acfm}, using equation 1.

Calculate the actual pressure, P_{actual}, at the system flow meter based on atmospheric pressure (P_{atm}) and the applied well vacuum (P_{vac}):

P_{vac} = 49" H_2O

$$P_{actual} = P_{atm} - P_{vac} = 12.5\ psi - \frac{50"\ H_2O}{1} * \frac{1'H_2O}{12"\ H_2O} * \frac{1\ psi}{2.31'\ H_2O} = 10.70\ psi$$

$$Q_{acfm} = Q_{scfm} * \frac{P_{std}}{P_{actual}} * \frac{T_{actual}}{T_{std}} = 750\ scfm * \frac{14.7\ psi}{10.70\ psi} * \frac{530\ R}{530\ R} = 1{,}028\ acfm$$

4.2 Mass Removal by Laboratory Analysis

The standard combined well influent flow rate, Q_{scfm}, during the period of 138 hours is 750 scfm, and TPH (GRO) laboratory concentration, C_{lab}, is 13,800 micrograms per liter (µg/L)[B]. Calculate the TPH (GRO) concentration under standard conditions, C_{std}, using equation 3 and assuming the absolute pressure and temperature at the laboratory (5000 ft msl) are 12.23 psi and 70° F, respectively:

$$C_{std} = C_{lab} * \left(\frac{P_{std}}{P_{lab}} * \frac{T_{lab}}{T_{std}}\right) = 13{,}800\ \mu g/L * \left(\frac{14.7}{12.23} * \frac{530}{530}\right) = 16{,}587\ \mu g/L$$

Mass = Q_{scfm} * C_{std} * time = 750 scfm * 16,587 µg/L * 138 hr * (28.317 L/ft^3) * (60 min/hr) *

(1 pound / 454 grams) * (1 gram / 10^6 µg) = **Mass = 6,430 lb gasoline**

Calculate the daily mass removal and total mass removed by the groundwater treatment system based on concentrations of TPH (GRO), TPH (DRO), and BTEX of 6.1, 2.4, and 2.9 mg/L, respectively, for the samples collected on November 9, 2023. The sum total of TPH is 8.5 mg/L, which is greater than the BTEX concentrations. The effluent totalizing flow meter read 133,800 gallons on November 9 and 42,000 gallons on November 3, so approximately 91,800 gallons were processed during this time period. Calculate the mass removed using the concentration and volumetric flow for the period:

Mass removed = V_{period} * C_{lab} =

91,800 gal * (8.5 mg/L) * 2.20x10^{-6} lb/mg * 3.8 L/gal**= Mass = 6.5 lb gasoline**

Total mass removed from both air and water phases of contamination:

Mass = 6,430 + 6.5 = 6,437 lb / 6 lb/gal = **Mass = 1,073 gallons gasoline-equivalent**

Conversions from mass to gallons are provided only as a frame of reference. Some constituents in gasoline may not readily volatilize or may be oxidized by natural processes. Complete results are provided on attached spreadsheets.

4.3 Mass Removal by PID Analysis

The standard combined well influent flow rate, Q_{scfm}, during the period of 138 hours is 750 scfm, and the PID reported a volumetric concentration of 847 ppmv[A]. Convert the volumetric concentration to a mass-based concentration at standard conditions:

C_{std} = 847 ppmv * (4.16 µg/L per ppmv) = 3,524 µg/L

Mass = Q_{scfm} * C_{std} * time = 750 scfm * 3,524 µg/L * 138 hr * (28.317 L/ft^3) * (60 min/hr) *

(1 pound / 454 grams) * (1 gram / 10^6 µg) = **Mass = 1,366 lb gasoline**

Mass removal estimates obtained using PID data were lower than laboratory results. However, concentration estimates measured in the field using a portable PID are considered to be for screening purposes only and won't necessarily correlate with mass concentrations measured with laboratory data.

4.4 Destruction Efficiency

Calculate destruction efficiency using equation 3, assuming TPH (GRO) influent and effluent laboratory concentrations of 13,800 and 2,700 µg/L[B], respectively, from the November 9 sampling event:

DE = (C_{inf} - C_{eff}) / (C_{inf}) = (13,800 µg/L – 2,700 µg/L) / 13,800 µg/L = **DE = 80.4%**

Calculate destruction efficiency using equation 3, assuming TPH (GRO) influent and effluent laboratory concentrations of 9,800 and 220 µg/L[B], respectively, from the November 28 sampling event:

DE = (C_{inf} - C_{eff}) / (C_{inf}) = (9,800 µg/L – 220 µg/L) / 9,800 µg/L = **DE = 97.8%**

Destruction efficiency has improved as the system has continued to operate. Based on how the remediation system operated during the startup period, it is likely that process air was initially oxygen deficient. In this state, hydrocarbons were not oxidized as completely, despite normal operation of the thermal oxidizer. Normal operation of the oxidizer has created subsurface circulation and is increasing subsurface oxygen content over time. This has translated to improved oxidizer efficiency, as observed in the laboratory data.

4.5 Emission Rates

Calculate the oxidizer effluent TPH (GRO) concentration under standard conditions, C_{std}, using equation 2 and assuming the absolute pressure and temperature at the laboratory (5000 ft msl) are 12.23 psi and 70° F, respectively:

$$C_{std} = C_{lab} * \left(\frac{P_{std}}{P_{lab}} * \frac{T_{lab}}{T_{std}}\right) = 2{,}700\ \mu g/L * \left(\frac{14.7}{12.23} * \frac{530}{530}\right) = 3{,}245\ \mu g/L$$

Calculate emissions rates in pounds per hour (lb/hr) and tons per year (ton/yr) assuming a system discharge air flow rate, Q_{out}, of 1000 scfm (including combustion blower air):

Emissions = Q_{out} * C_{std} = 1,000 scfm * 3,245 µg/L * (28.317 L/ft^3) * (60 min/hr) *

(1 pound / 454 grams) * (1 gram / 10^6 µg) = **Emissions = 12.16 lb/hr**

Emissions = 12.16 lb/hr * (8760 hr/yr) * (1 ton/2000 lb) = **Emissions = 53.24 ton/yr**

Time weighted average emission rates involve summing the product of the emission rate and run time for each individual period and dividing by the total run time.

Total period average emission rates involve summing the product of the emission rate and run time for each individual period and dividing by the current calendar time since startup.

As discussed above, oxidizer emission rates have improved as the oxidizer has continued to operate. Since November 16, 2023, TPH emission rates have been below 2 lb/hr and 9 ton/yr. Emissions of regulated constituents of gasoline, such as benzene, have been less than 0.2 lb/hr and 0.9 ton/yr. Emission rates will continue to improve as oxidizer efficiency increases and contaminant concentrations decrease with optimized mass removal.

Former Y Station, Clovis New Mexico
Mass removal calculation (PID results)
System start date November 1, 2023
The sample point is the combined influent sample port. Air flow is measured by the SVE system.

Date	Time	Total Oxidizer Hours (hr)	Run Time during period (hr)	Run Time during period (min)	Combined Well Vacuum (in Hg)	Combined Well Vacuum (in H_2O)	Standard Combined Well Flow (scfm)	Actual Combined Well Flow (acfm)	PID Concentration (ppmv)	PID Concentration (µg/L)*	Total Well Flow (scf)	Mass Removed During Period (lb)	Cumulative Mass Removed (lb)	Mass Removal Rate (lb/hr)	Cumulative Mass Removal Rate (lb/hr)
11/1/2023	10:00	5	System started												
11/1/2023	13:56	9	4	240	3.1	42	761	1,016	15,000	62,400	182,640	711	711	177.9	177.9
11/3/2023	15:08	58	49	2,940	3.5	47	762	1,034	1,446	6,015	2,240,280	841	1,553	17.2	29.3
11/9/2023	8:30	196	138	8,280	3.7	50	750	1,028	847	3,524	6,210,000	1,366	2,919	9.9	15.3
11/16/2023	14:10	368	172	10,320	3.5	48	766	1,043	1,368	5,691	7,905,120	2,808	5,727	16.3	15.8
11/21/2023	15:08	485	117	7,020	3.9	53	762	1055	1,523	6,336	5,349,240	2,116	7,843	18.1	16.3
11/27/2023	16:01	633	148	8,880	3.9	53	765	1059	1,105	4,597	6,793,200	1,949	9,793	13.2	15.6
12/12/2023	8:00	963	330	19,800	4.1	55	775	1082	825	3,434	15,345,000	3,289	13,082	10.0	13.7
1/3/2024	7:30	1,463	500	30,000	4.1	56	775	1084	788	3,277	23,250,000	4,756	17,838	9.5	12.2
1/16/2024	12:30	1,756	293	17,580	4.2	57	781	1096	702	2,918	13,729,980	2,501	20,339	8.5	11.6
1/31/2024	8:27	2,109	353	21,162	4.4	59	764	1081	896	3,727	16,167,768	3,762	24,101	10.7	11.5
2/8/2024	8:40	2,300	191	11,478	5.0	68	725	1059	1,026	4,268	8,321,550	2,217	26,319	11.6	11.5
2/19/2024	14:43	2,568	268	16,080	5.1	69	729	1068	647	2,692	11,722,320	1,970	28,289	7.4	11.0
3/5/2024	SVE System Off due to Thermal Oxidizer Fault														
3/26/2024															
4/17/2024															
4/28/2024															
7/12/2024	7:52	2,633	65	3,888	3.5	48	777	1058	394	1,637	3,020,976	309	28,598	4.8	10.9
7/29/2024	12:30	3,041	408	24,480	3.7	51	754	1037	750	3,119	18,457,920	3,594	32,192	8.8	10.6
8/14/2024	7:47	3,331	290	17,400	4.2	57	753	1056	975	4,055	13,102,200	3,317	35,508	11.4	10.7
8/26/2024	9:30	3,609	278	16,692	4.6	62	727	1040	687	2,856	12,135,084	2,164	37,672	7.8	10.5
9/12/2024	7:06	3,941	332	19,920	4.8	65	739	1066	399	1,658	14,720,880	1,523	39,195	4.6	10.0
9/26/2024	12:41	4,254	313	18,780	5.4	74	508	757	640	2,662	9,540,240	1,586	40,781	5.1	9.6
10/8/2024	12:45	4,881	627	37,620	5.4	73	513	763	562	2,340	19,299,060	2,819	43,600	4.5	8.9

Notes

µg/L = micrograms per liter
lb= pounds
cfm = cubic feet per minute
acfm = actual cfm
scfm = standard cfm
scf = standard cubic feet
STP = standard temperature and pressure
hr = hours
min = minutes
in H_2O = inches water column
psi = pounds per square inch
°F = degrees Fahrenheit
°R = degrees Rankine
ft msl = feet above mean sea level

Conversions

* micrograms per liter = milligrams per cubic meter.
454 gram / lb
1.00E+06 ug / gram
60 min / hr
28.317 liter / cubic foot
1000 liter / cubic meter
35.315 cubic feet / cubic meter
4.16 ug/L per ppmv for gasoline at STP

Flow Conversions

12.5 absolute air pressure at 4280 ft msl
14.7 absolute air pressure at 0 ft msl

13.6 Inches water per inches Hg
12 inches per foot water
2.31 feet of water (head) per psi

70 °F, standard temperature
70 °F, assumed lab temperature
460 °R

Former Y Station, Clovis New Mexico
Mass removal calculation (laboratory results)
System start date November 1, 2023
The sample point is the combined influent sample port. Air flow is measured by the SVE system.

Date	Time	Total Oxidizer Hours (hr)	Run Time (hr)	Run Time (min)	Combined Well Vacuum (in Hg)	Combined Well Vacuum (in H_2O)	Standard Combined Well Flow (scfm)	Actual Combined Well Flow (acfm)	Lab Results TPH GRO (µg/L)*	Lab Results TPH GRO at STP (µg/L)*	Total Well Flow (scf)	Mass Removed During Period (lb)	Cumulative Mass Removed (lb)	Mass Removal Rate (lb/hr)	Cumulative Mass Removal Rate (lbs/hr)
11/1/2023	10:00	5	System Started												
11/1/2023	13:56	9	4	240	3	42	761	1016	36,000	43,271	182,640	493	493	123.3	123.3
11/3/2023	15:08	58	49	2,940	3	47	762	1034	34,000	40,867	2,240,280	5,715	6,209	116.6	117.1
11/9/2023	8:30	196	138	8,280	4	50	750	1028	13,800	16,587	6,210,000	6,430	12,639	46.6	66.2
11/16/2023	14:10	368	172	10,320	4	48	766	1043	16,000	19,231	7,905,120	9,491	22,130	55.2	61.0
11/21/2023	15:08	485	117	7,020	4	53	762	1055	12,000	14,424	5,349,240	4,817	26,947	41.2	56.1
11/27/2023	16:01	633	148	8,880	4	53	765	1059	9,800	11,779	6,793,200	4,995	31,942	33.8	50.9
12/12/2023	8:00	963	330	19,800	4	55	775	1082	7,800	9,375	15,345,000	8,981	40,923	27.2	42.7
1/3/2024	7:30	1,463	500	30,000	4	56	775	1084	7,700	9,255	23,250,000	13,433	54,356	26.9	37.3
1/16/2024	12:30	1,756	293	17,580	4	57	781	1096	7,700	9,255	13,729,980	7,933	62,289	27.1	35.6
1/31/2024	8:27	2,109	353	21,162	4	59	764	1081	6,500	7,813	16,167,768	7,886	70,175	22.4	33.4
2/8/2024	8:40	2,300	191	11,478	5	68	725	1059	14,000	16,827	8,321,550	8,742	78,917	45.7	34.4
2/19/2024	14:43	2,568	268	16,080	5	69	729	1068	6,700	8,053	11,722,320	5,893	84,810	22.0	33.1
3/5/2024	SVE System Off due to Thermal Oxidizer Fault														
3/26/2024															
4/17/2024															
4/28/2024															
7/12/2024	7:52	2,633	65	3,888	4	48	777	1058	7,200	8,654	3,020,976	1,632	86,442	25.2	32.9
7/29/2024	12:30	3,041	408	24,480	4	51	754	1037	5,600	6,731	18,457,920	7,756	94,198	19.0	31.0
8/14/2024	17:10	3,331	290	17,400	4	57	753	1056	4,700	5,649	13,102,200	4,621	98,819	15.9	29.7
8/30/2024	18:10	3,609	278	16,692	5	62	727	1040	1,800	2,164	12,135,084	1,639	100,458	5.9	27.9
9/12/2024	19:10	3,941	332	19,920	5	65	739	1066	3,100	3,726	14,720,880	3,424	103,882	10.3	26.4
9/26/2024	20:10	4,254	313	18,780	5	74	508	757	5,200	6,250	9,540,240	3,722	107,605	11.9	25.3
10/8/2024	20:10	4,881	627	37,620	5	73	513	763	2,340	2,812	19,299,060	3,388	110,993	5.4	22.8

Notes

µg/L = micrograms per liter
lb= pounds
cfm = cubic feet per minute
acfm = actual cfm
scfm = standard cfm
scf = standard cubic feet
STP = standard temperature and pressure
half the detection limit is used

hr = hours
min = minutes
in H_2O = inches water column
psi = pounds per square inch
°F = degrees Fahrenheit
°R = degrees Rankine
ft msl = feet above mean sea level

Conversions

* micrograms per liter = milligrams per cubic meter.
454 gram / lb
1.00E+06 ug / gram
60 min / hr
28.317 liter / cubic foot
1000 liter / cubic meter
35.315 cubic feet / cubic meter
12 inches per foot water

Flow Conversions

12.5 absolute air pressure at 4280 ft msl, psi
12.2 absolute air pressure at 5000 ft msl, psi
14.7 absolute air pressure at 0 ft msl, psi

13.6 Inches water per inches Hg
2.31 feet of water (head) per psi

70 °F, standard temperature
70 °F, assumed lab temperature
460 °R

Former Y Station, Clovis New Mexico
Mass removal calculation (GW lab results)
System start date November 1, 2023
Raw water samples are collected prior to the oil-water separator

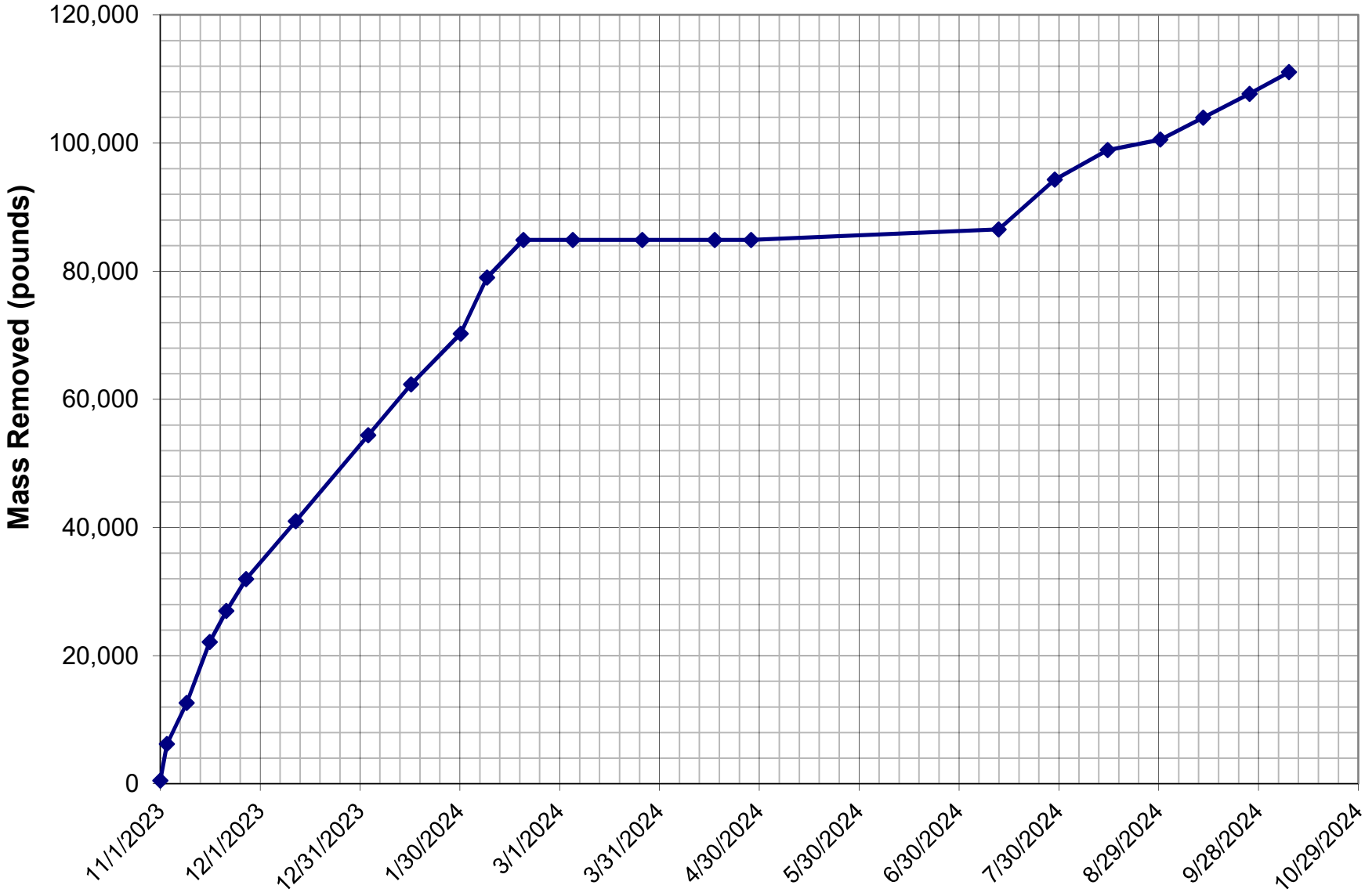
Date	Time	Effluent Totalizer (gal)	Effluent per period (gal)	Lab Results TPH GRO (mg/L)	Lab Results TPH DRO (mg/L)	Lab Results BTEX (mg/L)	Mass Removed During Period (lb)	Cumulative Mass Removed (lb)	Mass Removal Rate (lbs/day)	Cumulative Mass Removal Rate (lbs/day)	Cumulative Mass Removed (gal)
11/1/2023		0	System Started								
11/1/2023	13:56	3,300	3,300	3.8	NA	1.1	0.11	0	0.6	0.6	0.02
11/3/2023	15:08	42,000	38,700	6.9	NA	2.4	2.24	2	1.1	1.2	0.39
11/9/2023	8:30	133,800	91,800	6.1	2.4	2.9	6.50	9	1.1	1.1	1.47
11/16/2023	14:10	221,900	88,100	7.8	2.8	3.1	7.82	17	1.1	1.1	2.78
11/21/2023	15:08	300,900	79,000	7.0	1.1	2.7	5.36	22	1.1	1.1	3.67
11/27/2023	16:01	385,800	84,900	8.2	<1.0	3.6	5.83	28	1.0	1.1	4.64
12/12/2023	8:00	566,000	180,200	11	2.5	4.6	20.4	48	1.4	1.2	8.04
1/3/2024	7:30	780,000	214,000	5.3	2.3	1.8	13.63	62	0.6	1.0	10.31
1/16/2024	12:30	892,000	112,000	5.6	1.3	1.9	6.47	68	0.5	0.9	11.39
1/31/2024	8:27	1,024,824	132,824	4.1	<1.0	0.07	4.56	73	0.3	0.8	12.15
2/8/2024	8:40	1,083,365	58,541	4.2	1.6	1.5	2.84	76	0.4	0.8	12.62
2/19/2024	14:43	1,130,794	47,429	4.5	1.4	1.7	2.34	78	0.2	0.7	13.01
3/5/2024	15:10	1,225,700	94,906	0.35	<1.0	0.04	0.28	78	0.0	0.6	13.06
3/26/2024	8:00	1,313,500	87,800	0.71	<1.0	0.19	0.52	79	0.0	0.5	13.15
4/17/2024	14:10	1,439,700	126,200	2.0	<1.0	0.69	2.11	81	0.1	0.5	13.50
4/28/2024	7:30	1,488,845	49,145	3.2	1.1	1.1	1.77	83	0.2	0.5	13.80
7/12/2024	7:52	1,500,400	11,555	1.2	<1.0	0.41	0.12	83	0.0	0.3	13.81
7/29/2024	12:30	1,585,400	85,000	0.67	<1.0	0.04	0.48	83	0.0	0.3	13.89
8/14/2024	7:47	1,614,500	29,100	1.1	<1.0	0.15	0.27	84	0.0	0.3	13.94
8/26/2024	9:30	1,645,300	30,800	0.22	<1.0	<0.0225	0.06	84	0.0	0.3	13.95
9/12/2024	7:06	1,744,967	99,667	0.85	<1.0	0.15	0.71	84	0.0	0.3	14.07
9/26/2024	14:44	1,804,700	59,733	0.17	<1.0	0.089	0.085	84	0.0	0.3	14.08
10/8/2024	12:45	1,828,500	83,533	**0.025**	<1.0	<0.045	0.017	85	0.0	0.2	14.08

Notes
mg/L = miligrams per liter
lb= pounds
NA= Not analyzed

Conversions
2.20E-06 lb / mg
3.8 L / gallon
6 lb/ gallon (gasoline)

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Mass Removal in Vapor and Groundwater Phases



SVE System Emissions Summary
Based on Effluent Analytical Organic Chemistry Data for Soil Vapor
Former Y Station, Clovis, New Mexico

	Run Time	Benzene		Toluene		Ethylbenzene		Total Xylenes		TPH (GRO)	
Date	hr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
11/1/2023	4	0.675	2.958	0.720	3.155	0.068	0.296	0.212	0.927	29.26	128.2
11/3/2023	49	0.855	3.747	1.035	4.535	1.035	4.535	0.360	1.578	19.81	86.77
11/9/2023	138	0.445	1.950	1.531	6.705	0.131	0.576	0.567	2.485	12.16	53.24
11/16/2023	172	0.198	0.868	0.180	0.789	0.018	0.077	0.081	0.355	1.89	8.28
11/21/2023	117	0.108	0.473	0.068	0.296	0.005	0.024	0.018	0.081	0.72	3.16
11/27/2023	148	0.077	0.335	0.090	0.394	0.013	0.055	0.077	0.335	0.99	4.34
12/12/2023	330	0.037	0.164	0.023	0.099	0.002	0.007	0.005	0.024	0.25	1.08
1/3/2024	500	0.027	0.118	0.016	0.071	0.001	0.005	0.004	0.016	0.16	0.71
1/16/2024	293	0.031	0.134	0.028	0.124	0.002	0.009	0.009	0.039	0.33	1.46
1/31/2024	353	0.019	0.085	0.029	0.128	0.005	0.020	0.027	0.120	0.34	1.50
2/8/2024	191	0.017	0.073	0.042	0.185	0.009	0.039	0.054	0.237	0.50	2.17
2/19/2024	268	0.013	0.057	0.012	0.051	0.001	0.006	0.009	0.037	0.12	0.53
3/5/2024	SVE System Off										
3/26/2024											
4/17/2024											
4/28/2024											
7/12/2024	65	0.016	0.069	0.008	0.034	0.001	0.002	0.002	0.008	0.09	0.41
7/29/2024	408	0.015	0.067	0.009	0.039	0.001	0.003	0.003	0.011	0.09	0.41
8/14/2024	290	0.011	0.049	0.014	0.059	0.002	0.008	0.010	0.045	0.17	0.75
8/30/2024	278	0.005	0.022	0.006	0.028	0.001	0.005	0.006	0.028	0.09	0.37
9/12/2024	332	0.001	0.006	0.003	0.012	0.001	0.003	0.005	0.020	0.05	0.22
9/26/2024	313	0.002	0.008	0.002	0.009	0.001	0.003	0.004	0.019	0.04	0.16
10/8/2024	627	0.003	0.011	0.026	0.114	0.003	0.013	0.011	0.047	0.29	1.26
Run time weighted average:		0.047	0.204	0.080	0.351	0.017	0.075	0.035	0.151	0.85	3.73
Total period average [a]:			0.024		0.038		0.005		0.026		0.44

TPH = Total petroleum hydrocarbons
GRO = Gasoline range organics
Italic = Laboratory result below reporting limit - emissions value calculated using half of the laboratory reporting limit
hr = hour
lb/hr = Pounds per hour
ton/yr = Tons per year

SVE System Emissions Summary
Based on Effluent Analytical Organic Chemistry Data for Soil Vapor
Former Y Station, Clovis, New Mexico

	Run Time	Benzene		Toluene		Ethylbenzene		Total Xylenes		TPH (GRO)	
Date	hr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
[a] Total period =	1/3/2024	to	10/08/24	(calendar year)							

Notes: 1. NMED Air Quality Bureau Notice of Intent to Discharge required for any regulated air contaminant greater than 10 ton/yr. Permitting is based on emissions for a calendar year from start up.
2. System discharge air flow rate of 1,000 scfm used as a conservative estimate, including combustion blower air.

SVE Systems Operation Data

See Tables Section of this Report

Summary of Analytical Organic Chemistry Data for Soil Vapor

See Tables Section of this Report

Fifth Edition

Fundamentals of Fluid Mechanics

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Appendix C
Properties of the U.S. Standard Atmosphere

■ **TABLE C.1**
Properties of the U.S. Standard Atmosphere (BG Units)[a]

Altitude (ft)	Temperature (°F)	Acceleration of Gravity, g (ft/s^2)	Pressure, p [lb/in.^{2}(abs)]	Density, ρ (slugs/ft^3)	Dynamic Viscosity, μ (lb·s/ft^2)
−5,000	76.84	32.189	17.554	2.745 E − 3	3.836 E − 7
0	59.00	32.174	14.696	2.377 E − 3	3.737 E − 7
5,000	41.17	32.159	12.228	2.048 E − 3	3.637 E − 7
10,000	23.36	32.143	10.108	1.756 E − 3	3.534 E − 7
15,000	5.55	32.128	8.297	1.496 E − 3	3.430 E − 7
20,000	−12.26	32.112	6.759	1.267 E − 3	3.324 E − 7
25,000	−30.05	32.097	5.461	1.066 E − 3	3.217 E − 7
30,000	−47.83	32.082	4.373	8.907 E − 4	3.107 E − 7
35,000	−65.61	32.066	3.468	7.382 E − 4	2.995 E − 7
40,000	−69.70	32.051	2.730	5.873 E − 4	2.969 E − 7
45,000	−69.70	32.036	2.149	4.623 E − 4	2.969 E − 7
50,000	−69.70	32.020	1.692	3.639 E − 4	2.969 E − 7
60,000	−69.70	31.990	1.049	2.256 E − 4	2.969 E − 7
70,000	−67.42	31.959	0.651	1.392 E − 4	2.984 E − 7
80,000	−61.98	31.929	0.406	8.571 E − 5	3.018 E − 7
90,000	−56.54	31.897	0.255	5.610 E − 5	3.052 E − 7
100,000	−51.10	31.868	0.162	3.318 E − 5	3.087 E − 7
150,000	19.40	31.717	0.020	3.658 E − 6	3.511 E − 7
200,000	−19.78	31.566	0.003	5.328 E − 7	3.279 E − 7
250,000	−88.77	31.415	0.000	6.458 E − 8	2.846 E − 7

[a]Data abridged from *U.S. Standard Atmosphere*, 1976, U.S. Government Printing Office, Washington, D.C.

linear interpolation
7,000 → 11.38 psi

Conversion unmasked

What is the relationship between µg/L and ppmv?

By Yue Rong, Ph.D. and Samuel C.T. Yu, D. Env

Soil vapor samples are often analyzed to monitor variation of contaminant concentration and evaluate the effect of vapor extraction. Soil vapor sample results can be reported in either micrograms per liter (µg/L) or parts per million by volume (ppmv). What is the relationship between these two units of vapor concentration?

Basic laws:

A. Definition: One mole of a substance is its formula weight in grams, i.e., MW •n = g (equation one)

B. Ideal Gas Law: p•V = n•R•T (equation two)

Yue Rong, Ph.D., is environmental specialist with the California Regional Water Quality Control Board, Los Angeles Region, and Samuel Yu, D. Env., is project engineer in the Safety and Environmental Protection Office of the Hong Kong University of Science and Technology, Hong Kong.

Where: MW is molecular weight (gram per mold), n is numbers of mole, g is gram, P is total gas pressure (atmosphere unit, or atm), V is volume in liters, R is the gas constant (Liter • atm/°K • mole), and T is gas temperature (°K)
(°K = °C + 273.15).

By definition, ppmv = µV/V = µL/L.

We are looking for relationship between mass (g) and volume (L). Substitute equation two into one for n:

g = MW • (P•V / R•T) (equation three)

Given R = 0.08205 L • atm/°K • mole, T = 293.15°K (@ 20°C), P = 1 atm, equation three becomes:

g = MW • V • [P/(R•T)] = MW • V • [1 / (0.08205 x 293.15)]

= MW • V / 24.05 (equation four)

Check units in equation four:

g = (g/mole) • L • [atm/ ((L •atm/°K • mole) • K°)]

VOC	MW	Conversion Factor (MW/24.05)
GASOLINE	100	4.16
Benzene	78	3.2
Carbon tetrachloride	154	6.4
Chloroform	120	5.0
Dichlorobenzene	147	6.1
Dichlorodifluoromethane (Freon 12)	120	5.0
Dichloroethane (DCA) (all isomers)	99	4.1
Dichloroethylene (DCE) (all isomers)	97	4.0
Methylene chloride	85	3.5
Tetrachloroethylene (PCE)	166	6.9
Trichloroethane (TCA) (all isomers)	134	5.6
Trichloroethylene (TCE)	132	5.5
Trichlorofluoromethane (Freon 11)	137	5.7
Trichlorotrifluoroethane (Freon 113)	186	7.7
Vinyl chloride	63	2.6

Figure 1

Notice V is in liters (L), equation four can be expressed as:

g = (MW/24.05) • L ppmv = ug/L / 4.16 gasoline

µg = (MW/24.05 • µL

µg/L = (MW/24.05) •µL/L

i.e., µg/L = (MW/24.05) • ppmv (equation five)

Let X = concentration in ppmv and Y = concentration in µg/L, and equation five becomes:

Y (µg/L) = (MW/24.05) • X (ppmv) (equation six)

ppb

Equation six converts soil vapor concentration from ppmv to µg/L, or vice versa. In order to use this equation, it is necessary to know molecular weight of a particular compound. Figure one, above, shows the conversion factor of (MW/24.05) in equation six for some common VOCs. For example, if vapor concentration is measured in 100 ppmv for PCE, then PCE concentration is also equal to 6.9 x 100 = 690 ug/L.

MEMORANDUM

TO: Gundar Peterson, PE

FROM Tom Golden, Kelly Isaacson

DATE. January 29, 2010

SUBJECT: Rotameter flow measurement

In response to Katherine MacNeil's email, we researched the apparent discrepancy between standard cubic feet per minute (SCFM) measurements given by a rotameter and the SCFM calculated by AcuVac in their soil vapor extraction (SVE) pilot test reports. The results of our research are summarized below

Definition of variables
ACFM actual cubic feet per minute (cfm) at a given temperature, pressure (elevation), and operating conditions
CFM_{meter}: cubic feet per minute (cfm) measured by a rotameter In the documentation provided, this is also called observed cfm and indicated scfm.
SCFM: equivalent flow in cubic feet per minute (cfm) at STP
STP: standard temperature and pressure, 70°F and 14 7 psi.
ρ density of a fluid, given in mass per unit volume

Problem statement
In the AMEC calculation provided regarding cfm measured with a rotameter, the author reports that the correct reporting unit from a rotameter calibrated for STP is SCFM. The AcuVac documentation refers to the flow rate measured with a rotameter as ACFM and converts this value to SCFM in the field. Does the value measured on the rotameter by AcuVac need to be converted to SCFM?

Solution
The need for the definition of three different types of CFM arises from the difference in calibration versus operation temperature and pressure conditions.

An analysis of the free body diagram of the float in a rotameter is given by Wellin[1], which shows that Q is dependent on the area of flow and density of air:

$$Q = K \cdot \frac{A}{\sqrt{\rho}} \qquad (1)$$

When a rotameter is calibrated at STP, $\sqrt{\rho}$ is absorbed into the value of K, because ρ (air) is defined. When the density of the air is changed (i.e. elevation of the rotameter is changed), the

calibrated rotameter no longer yields flow rate in SCFM, but instead what we will call CFM_{meter}.

The Dwyer technical documentation[2] for the VFC series rotameter used by AcuVac acknowledges this fact in the third paragraph under "Operation", which states,

"the flowmeter is calibrated to operate at a specific set of conditions, and deviation from those standard conditions will require correction for the calibration to be valid. In practice, the reading taken from the flowmeter scale must be corrected back to standard conditions to be used with the scale units. The correct location to measure the actual pressure and temperature is at the exit of the flowmeter, except under vacuum applications where they should be measured at the flowmeter inlet."

The conversion given to convert CFM_{meter} to SCFM[1,2] is a non linear relationship:

$$Q(SFCM) = CFM_{meter} \sqrt{\frac{P_{actual}}{P_{calibration}} \cdot \frac{T_{calibration}}{T_{actual}}} \qquad (2)$$

It can be noted that the calibration temperature and pressure are generally STP; however, calibration information should be provided by the flowmeter manufacturer

The relationship between SCFM and ACFM is linear:

$$ACFM = SCFM \ \frac{P_{standard}}{P_{actual}} \cdot \frac{T_{actual}}{T_{standard}} \qquad (3)$$

For completeness, the relationship between ACFM and CFM_{meter} is given by

$$ACFM = CFM_{meter} \sqrt{\frac{P_{standard}}{P_{actual}} \ \frac{T_{actual}}{T_{standard}}} \qquad (4)$$

Supporting documentation

Two Dwyer specification sheets for rotameters[2] (including the VFC Series Visi-Float used by AcuVac) are attached, which include the calculation of SCFM from the meter reading. This calculation is also discussed in Wellin[1]

The correct conversion from SCFM to ACFM is included in the documentation with the AMEC calculation (page 3 of 4 from King Correction Formulae & Sizing)[3], as well as in Wellin[1].

Implications

The primary problem here is one of terminology, although there are implications if formulas in either the AcuVac or AMEC documents were used to back-calculate ACFM/SCFM values. Although it may not be intuitive, ACFM is not the value read straight from the meter, rather the

calculated actual volumetric flow rate through the meter.

Page 2 of the AMEC calculation gives an equation to calculate ACFM. This non-linear equation is the correct way to calculate ACFM from CFM_{meter}. It is not the correct way to calculate SCFM from ACFM or vice versa.

For most SVE applications in New Mexico (i.e. 3000-7000 feet elevation, air temperature of 50-70°F), the value of CFM_{meter} falls between the ACFM and SCFM, such that ACFM > CFM_{meter} > SCFM.

In the design equation given in the AMEC calculation

$$Q = kA(gh)^{0.5} \qquad (5)$$

the fluid density, ρ(air), is included in the calibration coefficient, *k*, a fact which is not acknowledged by the AMEC calculation. While the equation is valid for the calibration conditions, the flow rate read from the meter must be corrected as indicated above in equation 2 to reflect the correct SCFM.

Conclusions

In the problem statement of the AMEC calculation regarding CFM used in SVE systems, the correct answer to the question "What is the correct reporting unit directly read off the scale; SCFM, ACFM, or other?" is "other", and in this discussion is termed CFM_{meter}.

Additionally, AcuVac is correct in converting the CFM value read on the flowmeter to SCFM to adjust for changes in temperature and pressure, with the non-linear relationship given above, although what they call ACFM in their sample calculation is actually CFM_{meter}.

In summary, both the SCFM value in the AMEC calculation[4] and the ACFM value in the AcuVac report[5] refer to the value measured at the flowmeter, CFM_{meter}, therefore, both equations provided are true, but do not represent the actual relationship between true SCFM and ACFM.

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Appendix G—Density Correction

Velocity is generally expressed in one of two ways. actual (true) velocity or standard velocity. Actual velocity is the average speed at which the molecules are traveling. Standard velocity is referenced to standard conditions (using a reference of 70°F [21 1°C] and 29 92 in. Hg [101.4 kPa]) and is equal to the actual velocity of the air only when the air is at standard density The Alnor calibration facilities adjust the actual velocity so that the same number of molecules per unit time are passing over the probe, as if the density were standard density This makes the instruments display standard velocity

As a practical matter, many users do not concern themselves with standard versus actual air velocity corrections unless the density of air in their application is more than 10 percent different from standard air density

Density Correction for Thermo-Anemometers

Thermo-anemometer sensors measure mass air flow velocity which is a measurement of the air mass moving past the sensor and is displayed as standard velocity. Air mass is what gives air its heat holding capacity. Since thermal anemometers measure air mass and display it as standard velocity, many people doing measurements on indoor air are more concerned with standard air velocity

Standard readings can be converted to actual air velocity to compensate for temperature and barometric pressures. Actual or standard measurements will give the same readings at standard conditions (using a reference of 70°F [21 1°C] and 29.92 in. Hg [101.4 kPa]), but not if pressure or temperature stray from standard conditions.

To calculate actual air velocity, multiply the standard velocity reading indicated by the thermo-anemometer by the following density correction factor:

Actual Velocity = (Standard Velocity) $[(460 + T) / (460 + 70)] \times 29\ 92 / P_m$

or

Actual Velocity = (Standard Velocity) $[(273 + T_m) / (273 + 21\ 1)] \times 101.4 / P$

Where:

- T = Ambient temperature in degrees Fahrenheit
- P_m = Ambient pressure in inches of Hg.
- T_m = Ambient temperature in degrees Centigrade
- P = Ambient pressure in kPa

Density Correction for Pressure Based Manometers or Deflecting Vane Anemometers

Manometers and deflecting vane anemometers read a nominal velocity that is neither standard nor actual, but a combination of both. This is the velocity read by any Pitot tube and pressure device that does not perform a density correction.

When Bernoulli's equation is applied to the Pitot-static probe, the resultant equation has the form $fpm = 4005\sqrt{\Delta P\,(in.\,H_2O)}$ $\left(m/s = 1.29\sqrt{\Delta P\,(Pa)}\right)$ when the density of the air is 0.075 lb/ft^2 (0.366 kgs/m^3). The velocity values displayed by the pressure instrument are the actual velocities *only* if the density where the Pitot probe measurements are being taken is 0.075 lb/ft^2 (0.366 kgs/m^3). Otherwise, a correction step must be performed to obtain a correct value.

Nominal velocity is a velocity reading that is between actual and standard velocity. It is a good estimation of the actual or standard velocity Nominal measurements are made using a pitot tube.

Actual velocity is the velocity at which a molecule would be traveling in the air stream.

Standard velocity is the velocity as if the measurement was taken with a thermal anemometer at standard temperature and barometric pressure.

Appendix F

Sampling Protocol

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Appendix F. Sampling Protocol

Fluid Level and Parameter Measurements

Prior to collection of groundwater samples, a Solinst interface probe or equivalent device will be used to determine depths to water and nonaqueous-phase liquid (NAPL), if present. Water level data will be used to construct a site potentiometric surface map. A YSI 556 Multi-Probe System (MPS) water quality meter or equivalent device will be used to measure specific conductivity, pH, temperature, dissolved oxygen (DO), and oxidation/reduction potential (ORP). Field parameters are measured one time during sample collection via HydraSleeve or via sample port at the wellhead.

Groundwater Monitor Well Sampling

Samples from remediation wells equipped with pumps are sampled using the sample tap at the wellhead while the remediation pump is running. All other wells are sampled using dedicated, disposable HydraSleeves with dedicated tethers and weights. HydraSleeves are installed in wells and are removed after 24 hours. To minimize volatilization and ensure sample integrity, the sample bag is pierced with a straw to transfer groundwater samples from the bailers to the appropriate sample containers.

Samples analyzed for volatile organic analytes (VOAs) will be collected in 40-milliliter (mL) glass vials containing hydrochloric acid preservative and capped with Teflon septa caps. Samples analyzed for 1,2-dibromoethane (EDB) are collected in two 40-milliliter (mL) glass vials containing sodium thiosulfate preservative and capped with Teflon septa caps. VOA containers will be filled in a manner that prevents headspace in the vials.

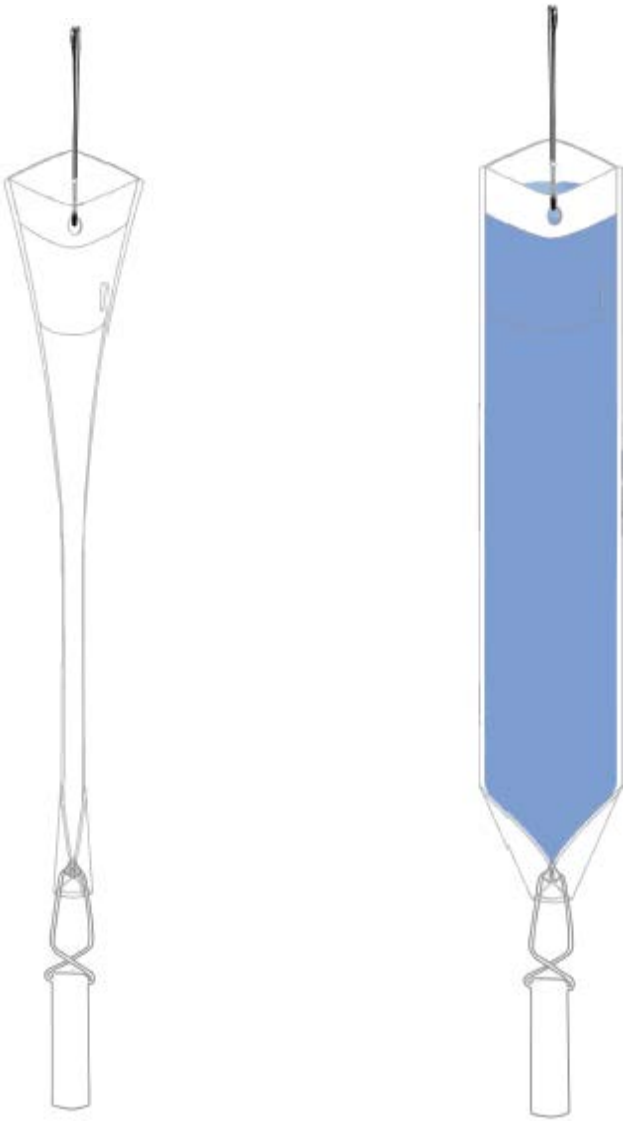
Immediately after collection, the sample containers will be placed on ice in an insulated cooler for delivery to the laboratory for analyses. Groundwater samples will be accompanied by full chain of custody documentation at all times.

HYDRASleeve™

Simple by Design

US Patent No. 6,481,300; No. 6,837,120; No. 9,726,013; others pending

Standard Operating Procedure: Sampling Groundwater with a HydraSleeve



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This guide should be used in addition to field manuals and instructions appropriate to the chosen sampling device (i.e., HydraSleeve, SpeedBag or Super/Skinny Sleeve and W3 HybridSleeve).

Find the appropriate field manual and instructions on the HydraSleeve website at http://www.hydrasleeve.com.

For more information about the HydraSleeve, or if you have questions, contact:
GeoInsight, P.O. Box 1266, Mesilla Park, NM 88047
800-996-2225, info@hydrasleeve.com.

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Introduction

The HydraSleeve is classified as a no-purge (passive) grab sampling device, meaning that it is used to collect groundwater samples directly from the screened interval of a well without having to purge the well prior to sample collection. When it is used as described in this Standard Operating Procedure (SOP), the HydraSleeve causes no drawdown in the well (until the sample is withdrawn from the water column) and only minimal disturbance of the water column, because it has a very thin cross section and it displaces very little water (<100 ml) during deployment in the well. The HydraSleeve collects a sample from within the screen only. It excludes water from any other part of the water column in the well through the use of a self-sealing check valve at the top of the sampler. It is a single-use (disposable) sampler that is not intended for reuse, so there are no decontamination requirements for the sampler itself.

The use of no-purge sampling as a means of collecting representative groundwater samples depends on the natural movement of groundwater (under ambient hydraulic head) from the formation adjacent to the well screen through the screen. Robin and Gillham (1987) demonstrated the existence of a dynamic equilibrium between the water in a formation and the water in a well screen installed in that formation, which results in formation-quality water being available in the well screen for sampling at all times. No-purge sampling devices like the HydraSleeve collect this formation-quality water as the sample, under undisturbed (non-pumping) natural flow conditions. Samples collected in this manner generally provide more conservative (i.e., higher concentration) values than samples collected using well-volume purging, and values equivalent to samples collected using low-flow purging and sampling (Parsons, 2005).

Applications of the HydraSleeve

The HydraSleeve can be used to collect representative samples of groundwater for all analytes (volatile organic compounds [VOCs], semi-volatile organic compounds [SVOCs], common metals, trace metals, major cations and anions, dissolved gases, total dissolved solids, radionuclides, pesticides, PCBs, explosive compounds, and all other analytical parameters). Designs are available to collect samples from wells from 1” inside diameter and larger. The HydraSleeve can collect samples from wells of any yield, but it is especially well-suited to collecting samples from low-yield wells, where other sampling methods can’t be used reliably because their use results in dewatering of the well screen and alteration of sample chemistry (McAlary and Barker, 1987).

The HydraSleeve can collect samples from wells of any depth, and it can be used for single-event sampling or long-term groundwater monitoring programs. Because of its thin cross section and flexible construction, it can be used in narrow, constricted or damaged wells where rigid sampling devices may not fit. Using multiple HydraSleeves deployed in series along a single suspension line or tether, it is also possible to conduct in-well vertical profiling in wells in which contaminant concentrations are thought to be stratified.

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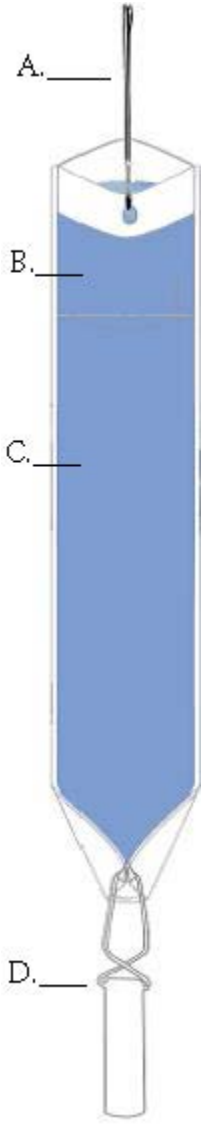
As with all groundwater sampling devices, HydraSleeves should not be used to collect groundwater samples from wells in which separate (non-aqueous) phase hydrocarbons (i.e., gasoline, diesel fuel or jet fuel) are present because of the possibility of incorporating some of the separate-phase hydrocarbon into the sample.

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Description of the HydraSleeve

The basic HydraSleeve (Figure 1) consists of the following components*:

- A suspension line or tether (A.), attached to the spring clip or directly to the top of the sleeve to deploy the device into and recover the device from the well. Tethers with depth indicators marked in 1-foot intervals are available from the manufacturer.
- A long, flexible, 4-mil thick lay-flat polyethylene sample sleeve (C.) sealed at the bottom (this is the sample chamber), which comes in different sizes, as discussed below with a self-sealing reed-type flexible polyethylene check valve built into the top of the sleeve (B.) to prevent water from entering or exiting the sampler except during sample acquisition.
- A reusable stainless-steel weight with clip (D.), which is attached to the bottom of the sleeve to carry it down the well to its intended depth in the water column. Bottom weights available from the manufacturer are 0.75" OD and are available in a variety of sizes. An optional top weight may be attached to the top of the HydraSleeve to carry it to depth and to compress it at the bottom of the well (not shown in Figure 1);
- A discharge tube that is used to puncture the HydraSleeve after it is recovered from the well so the sample can be decanted into sample bottles (not shown).
- Just above the self-sealing check valve at the top of the sleeve are two holes which provide attachment points for the spring clip and/or suspension line or tether. At the bottom of the sample sleeve are two holes which provide attachment points for the weight clip and weight.



*Other configurations such as top weighted assemblies, Super/SkinnySleeves, Speedbags, and W3 Hybrids are available.

Note: The sample sleeve and the discharge tube are designed for one-time use and are disposable. The spring clip, weight and weight clip may be reused after thorough cleaning. Suspension cord is generally disposed after one use although, if it is dedicated to the well, it may be reused at the discretion of the sampling personnel.

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Selecting the HydraSleeve Size to Meet Site-Specific Sampling Objectives

It is important to understand that each HydraSleeve is able to collect a finite volume of sample because, after the HydraSleeve is deployed, you only get one chance to collect an undisturbed sample. Thus, the volume of sample required to meet your site-specific sampling and analytical requirements will dictate the size of HydraSleeve you need to meet these requirements.

Table 1. Dimensions and Volumes of HydraSleeve Models.

Diameter	Volume	Length	Lay-Flat Width	Filled Dia.
2-Inch HydraSleeves				
Standard 600 mls HydraSleeve	~600mls	30”	2.5”	1.4”
Standard 1-liter HydraSleeve	~1 Liter	38”	3”	1.9”
Super/SkinnySleeve 1-liter	~1 Liter	38”	2.5"	1.5”*
Super/SkinnySleeve 1.5-liter	~1.5 Liters	52”	2.5”	1.5”*
Super/SkinnySleeve 2-liter	*~2 Liters*	*66"*	*2.5"*	*1.5"**
4-Inch HydraSleeves				
Standard 2.5 liter	~2 Liters	38”	4”	2.7”

* *o*utside diameter on the Heavy Duty Universal Super/SkinnySleeves is 1.5" however when using with schedule 40 hardware the O.D. of the assembly will be 1.9"

It's also recommended that you size the diameter of the HydraSleeve according to the diameter of the well (i.e. use 2-inch HydraSleeves in 2-inch wells). Using smaller sleeves in larger diameter wells (i.e. 2-inch HydraSleeves in 4-inch wells) will result in a longer fill rate and will require special retrieval instructions (explained later).

The volume of sample collected by the HydraSleeve varies with the diameter and length of the HydraSleeve. Dimensions and volumes of available HydraSleeve models are detailed in Table 1.

HydraSleeves can be custom-fabricated by GeoInsight in varying diameters and lengths to meet specific volume requirements. HydraSleeves can also be deployed in series (i.e., multiple HydraSleeves attached to one tether) to collect additional sample to meet specific volume requirements, as described below.

If you have questions regarding the availability of sufficient volume of sample to satisfy laboratory requirements for analysis, it is recommended that you contact the laboratory to discuss the minimum volumes needed for each suite of analytes. Laboratories often require only 10% to 25% of the volume they specify to complete analysis for specific suites of analytes, so they can often work with much smaller sample volumes that can easily be supplied using a HydraSleeve.

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HydraSleeve Deployment

Information Required Before Deploying a HydraSleeve

Before installing a HydraSleeve in any well, you will need to know the following:

- The inside diameter of the well
- The length of the well screen
- The water level in the well
- The position of the well screen in the well
- The total depth of the well

The inside diameter of the well is used to determine the appropriate HydraSleeve diameter for use in the well. The other information is used to determine the proper placement of the HydraSleeve in the well to collect a representative sample from the screen (see HydraSleeve Placement, below), and to determine the appropriate length of tether to attach to the HydraSleeve to deploy it at the appropriate position in the well.

Most of this information (with the exception of the water level) should be available from the well log; if not, it will have to be collected by some other means. The inside diameter of the well can be measured at the top of the well casing, and the total depth of the well can be measured by sounding the bottom of the well with a weighted tape. The position and length of the well screen may have to be determined using a down-hole camera if a well log is not available. The water level in the well can be measured using any commonly available water-level gauge.

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HydraSleeve Placement

The HydraSleeve is designed to collect a sample directly from the well screen. It fills by pulling it up through the screen a distance equivalent to the length of the sampler when correctly sized to the well diameter. This upward motion causes the top check valve to open, which allows the device to fill. To optimize sample recovery, it is recommended that the HydraSleeve be placed in the well so that the bottom weight rests on the bottom of the well and the top of the HydraSleeve is as close to the bottom of the well screen as possible. This should allow the sampler to fill before the top of the device reaches the top of the screen as it is pulled up through the water column, and ensure that only water from the screen is collected as the sample. In short-screen wells, or wells with a short water column, it may be necessary to use a top-weight on the HydraSleeve to compress it in the bottom of the well so that, when it is recovered, it has room to fill before it reaches the top of the screen.

Example

2" ID PVC well, 50' total depth, 10' screen at the bottom of the well, with water level above the screen (the entire screen contains water).

Correct Placement (figure 2): Using a standard HydraSleeve for a 2" well (2.5" flat width/1.5" filled OD x 30" long, 600 ml volume), deploy the sampler so the weight (a 5 oz., 2.5" long weight with a 2" long clip) rests at the bottom of the well. The top of the sleeve is thus set at ~34" above the bottom of the well. When the sampler is recovered, it will be pulled upward approximately 30" before it is filled; therefore, it is full (and the top check valve closes) at approximately 64" (5.3 feet) above the bottom of the well, which is well before the sampler reaches the top of the screen. In this example, only water from the screen is collected as a sample.

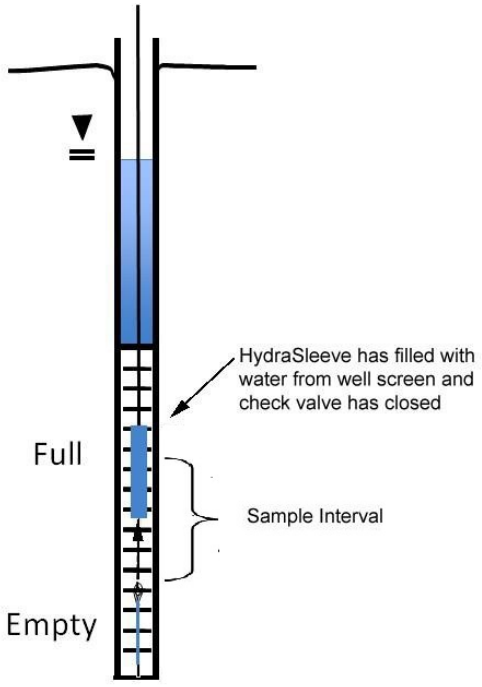


Figure 2. Correct Placement of HydraSleeve.

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Incorrect Placement (figure 3): If the well screen in this example was only 5' long, and the HydraSleeve was placed as above, it would not fill before the top of the device reached the top of the well screen, so the sample would include water from above the screen, which may not have the same chemistry.

The solution? Deploy the HydraSleeve with a top weight, so that it is collapsed to within 6" of the bottom of the well. When the HydraSleeve is recovered, it will fill within 36" (3 feet) from the bottom of the well, or 2-feet before the sampler reaches the top of the screen, so it collects only water from the screen as the sample.

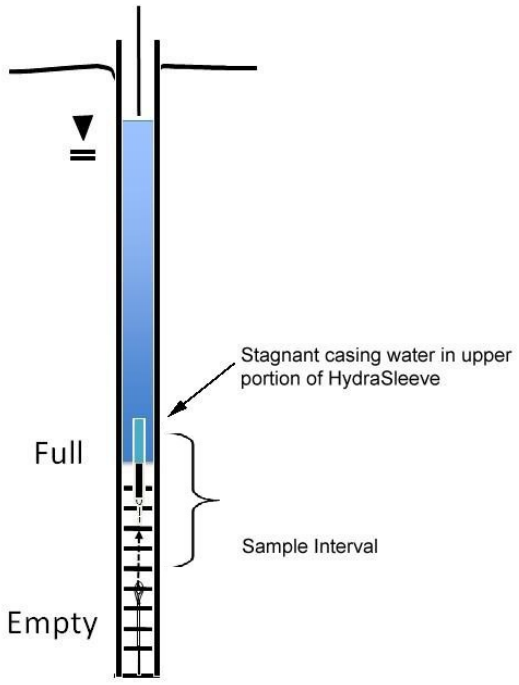


Figure 3. Incorrect placement of HydraSleeve.

This example illustrates one of many types of HydraSleeve placements. More complex placements are discussed in a later section.

NOTE: Using smaller diameter HydraSleeves (2-inch) in larger diameter wells (4-inch) causes a slower fill rate. Special retrieval methods are necessary if this is your set up (shown later in this document).

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Procedures for Sampling with the HydraSleeve

Collecting a groundwater sample with a HydraSleeve is usually a simple one-person operation.

Note: Before deploying the HydraSleeve in the well, collect the depth-to-water measurement that you will use to determine the preferred position of the HydraSleeve in the well. This measurement may also be used with measurements from other wells to create a groundwater contour map. If necessary, also measure the depth to the bottom of the well to verify actual well depth to confirm your decision on placement of the HydraSleeve in the water column.

Measure the correct amount of tether needed to suspend the HydraSleeve in the well so that the weight will rest on the bottom of the well (or at your preferred position in the well). Make sure to account for the need to leave a few feet of tether at the top of the well to allow recovery of the sleeve.

Note: Always wear sterile gloves when handling and discharging the HydraSleeve.

I. Assembling the Basic HydraSleeve*

1. Remove the HydraSleeve from its packaging, unfold it, and hold it by its top.
2. Crimp the top of the HydraSleeve by folding the hard polyethylene reinforcing strips at the holes.
3. Attach the spring clip to the holes to ensure that the top will remain open until the sampler is retrieved.
4. Attach the tether to the spring clip by tying a knot in the tether.

Note: Alternatively, if spring clips are not being utilized, attach the tether to one (NOT both) of the holes at the top of the Hydrasleeve by tying a knot in the tether.

5. Fold the flaps with the two holes at the bottom of the HydraSleeve together to align the holes and slide the weight clip through the holes.
6. Attach a weight to the bottom of the weight clip to ensure that the HydraSleeve will descend to the bottom of the well.

*See Super/SkinnySleeve assembly manual and HydraSleeve Field Manual for other assembly instructions.

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II. Deploying the HydraSleeve

1. Using the tether, carefully lower the HydraSleeve to the bottom of the well, or to your preferred depth in the water column

   During installation, hydrostatic pressure in the water column will keep the self-sealing check valve at the top of the HydraSleeve closed, and ensure that it retains its flat, empty profile for an indefinite period prior to recovery.

Note: Make sure that it is not pulled upward at any time during its descent. If the HydraSleeve is pulled upward at a rate greater than 0.5'/second at any time prior to recovery, the top check valve will open and water will enter the HydraSleeve prematurely.

2. Secure the tether at the top of the well by placing the well cap on the top of the well casing and over the tether.

Note: Alternatively, you can tie the tether to a hook on the bottom of the well cap (you will need to leave a few inches of slack in the line to avoid pulling the sampler up as the cap is removed at the next sampling event).

III. Equilibrating the Well

The equilibration time is the time it takes for conditions in the water column (primarily flow dynamics and contaminant distribution) to restabilize after vertical mixing occurs (caused by installation of a sampling device in the well).

- Situation: The HydraSleeve is deployed for the first time or for only one time in a well

  The basic HydraSleeve is very thin in cross section and displaces very little water (<100 ml) during deployment so, unlike most other sampling devices, it does not disturb the water column to the point at which long equilibration times are necessary to ensure recovery of a representative sample.

  In some cases, like when useing the SpeedBags, the HydraSleeve can be recovered immediately (with no equilibration time) or within a few hours. In regulatory jurisdictions that impose specific requirements for equilibration times prior to recovery of no-purge sampling devices, these requirements should be followed.

  NOTE: If using top weights additional equilibration time is needed to allow the top weight time to compress the HydraSleeve into the bottom of the well.

- Situation: The HydraSleeve is being deployed for recovery during a future sampling event.

  In periodic (i.e., quarterly, semi-annual, or annual) sampling programs, the sampler for the current sampling event can be recovered and a new sampler (for the next sampling event) deployed immediately thereafter, so the new sampler remains in the well until the next sampling event.

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Thus, a long equilibration time is ensured and, at the next sampling event, the sampler can be recovered immediately. This means that separate mobilizations, to deploy and then to recover the sampler, are not required. HydraSleeves can be left in a well for an indefinite period of time without concern.

IV. HydraSleeve Recovery and Sample Collection

1. Hold on to the tether while removing the well cap.
2. Secure the tether at the top of the well while maintaining tension on the tether (but without pulling the tether upwards)
3. Measure the water level in the well.
4. Use one of the following 3 retrieval methods. In all 3 scenarios, when the HydraSleeve is full, the top check valve will close. You should begin to feel the weight of the HydraSleeve on the tether and it will begin to displace water. The closed check valve prevents loss of sample and entry of water from zones above the well screen as the HydraSleeve is recovered.

   a. In one smooth motion, pull the tether up 30”-60" (the length of the sampler) at a rate of about 1 foot per second (or faster). The motion will open the top check valve and allow the HydraSleeve to fill (it should fill in about 1:1 ratio or the length of the HydraSleeve if the sleeve is sized to fit the well). This is analogous to coring the water column in the well from the bottom up.

   b. There are times it is recommended that the HydraSleeve be oscillated in the screen zone to ensure it is full before leaving the screen area. Pull up 1-3 feet, let the sleeve assembly drop back down and repeat 3-5 times before pulling the sleeve to the surface. The collection zone will be the oscillation zone. ***When in doubt use this retrieval method.***

   c. SpeedBags require check valve activation and oscillation during recovery: When retrieving the SpeedBag, pull up hard 1-2 feet to open the check valve; let the assembly drop back down to the starting point; REPEAT THIS PROCESS 4 TIMES; and then quickly recover the SpeedBag through the well sceen to the surface.

5. Continue pulling the tether upward until the HydraSleeve is at the top of the well.
6. Discard the small volume of water trapped in the Hydrasleeve above the check valve by pinching it off at the top under the stiffeners (above the check valve).

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v. Sample Discharge

NOTE: Sample collection should be done immediately after the HydraSleeve has been brought to the surface to preserve sample integrity.

Be sure you have discarded the water sitting above the check valve – see step #6 above.

1. Remove the discharge tube from its sleeve.
2. Hold the HydraSleeve at the check valve
3. Puncture the HydraSleeve at least 3-4 inches below the reinforcement strips with the pointed end of the discharge tube. NOTE: For some contaminants (VOC's/sinkers) the best location for discharge is the middle to bottom of the sampler. This would be representative of the deeper portion of the well screen.
4. Discharge water from the HydraSleeve into your sample containers. Control the discharge from the HydraSleeve by either raising the bottom of the sleeve, by squeezing it like a tube of toothpaste, or both.
5. Continue filling sample containers until all are full.

Measurement of Field Indicator Parameters

Field indicator parameter measurement is generally done during well purging and sampling to confirm when parameters are stable and sampling can begin. Because no-purge sampling does not require purging, field indicator parameter measurement is not necessary for the purpose of confirming when purging is complete.

If field indicator parameter measurement is required to meet a specific non-purging regulatory requirement, it can be done by taking measurements from water within a HydraSleeve that is not used for collecting a sample to submit for laboratory analysis (i.e., a second HydraSleeve installed in conjunction with the primary sample collection HydraSleeve [see Multiple Sampler Deployment below]).

Alternate Deployment Strategies

Deployment in Wells with Limited Water Columns

For wells in which only a limited water column needs to be sampled, the HydraSleeve can be deployed with an optional top weight in addition to a bottom weight. The top weight will collapse the HydraSleeve to a very short (approximately 6" to 24") length, depending on the length and volume of the sampler. This allows the HydraSleeve to fill in a water column only 3' to 10' in height (again) depending on the sampler size. Note the SuperSleeves accomplish the same thing but provide greater sample volume at a lower per sample cost.

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Multiple Sampler Deployment

Multiple sampler deployment in a single well screen can accomplish two purposes:

1. It can collect additional sample volume to satisfy site or laboratory-specific sample volume requirements.
2. It can be used to collect samples from multiple intervals in the screen to allow identification of possible contaminant stratification.

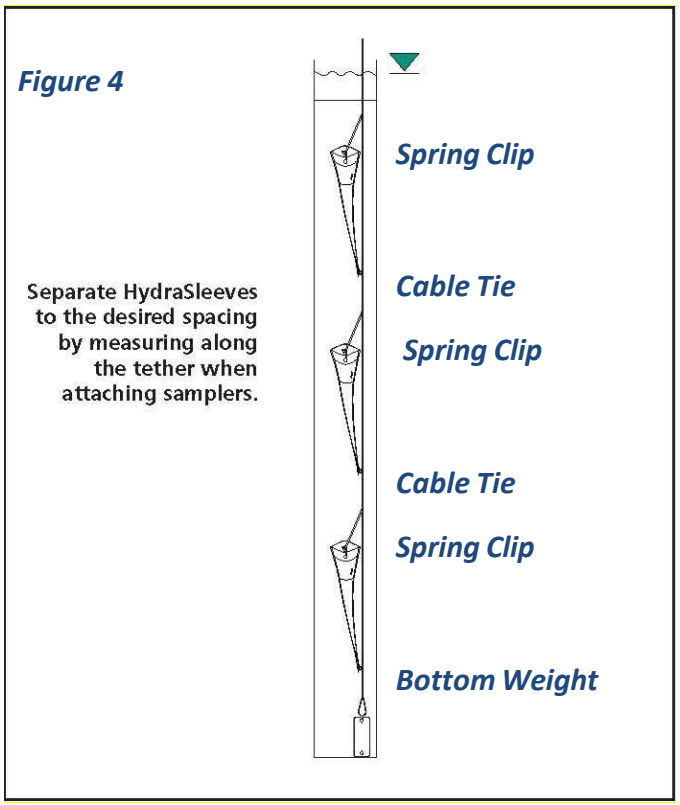


Figure 5. Multiple HydraSleeve deployment

If there is a need for only 2 samplers, they can be installed as follows. The first sampler can be attached to the tether as described above, a second attached to the bottom of the first using your desired length of tether between the two and the weight attached to the bottom of the second sampler (figure 6). This method can only be used with 2 samplers; 3 or more HydraSleeves in tandem need to be attached as described above.

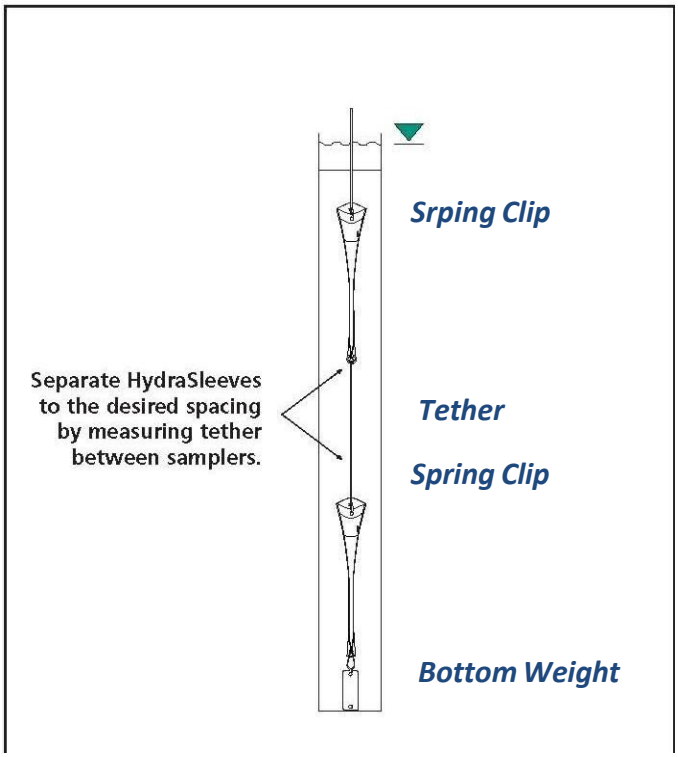


Figure 5. Alternative method for deploying multiple HydraSleeves.

In either case, when attaching multiple HydraSleeves in series, more weight will be required to hold the samplers in place in the well than would be required with a single sampler. Recovery of multiple samplers and collection of samples is done in the same manner as for single sampler deployments.

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Post-Sampling Activities

The recovered HydraSleeve and the sample discharge tubing should be disposed as per the solid waste management plan for the site. To prepare for the next sampling event, a new HydraSleeve can be deployed in the well (as described previously) and left in the well until the next sampling event, at which time it can be recovered.

The weight and weight clip can be reused on this sampler after they have been thoroughly cleaned as per the site equipment decontamination plan. The tether may be dedicated to the well and reused or discarded at the discretion of sampling personnel.

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Parsons, 2005, Results Report for the Demonstration of No-Purge groundwater Sampling Devices at Former McClellan Air Force Base, California; Contract F44650-99-D-0005, Delivery Order DKO1, U.S. Army Corps of Engineers (Omaha District), U.S. Air Force Center for Environmental Excellence, and U.S. Air Force Real Property Agency

Robin, M. J. L. and R. W. Gillham, 1987, Field Evaluation of Well Purging Procedures, groundwater Monitoring Review, Vol. 7, No. 4, pp. 85-93

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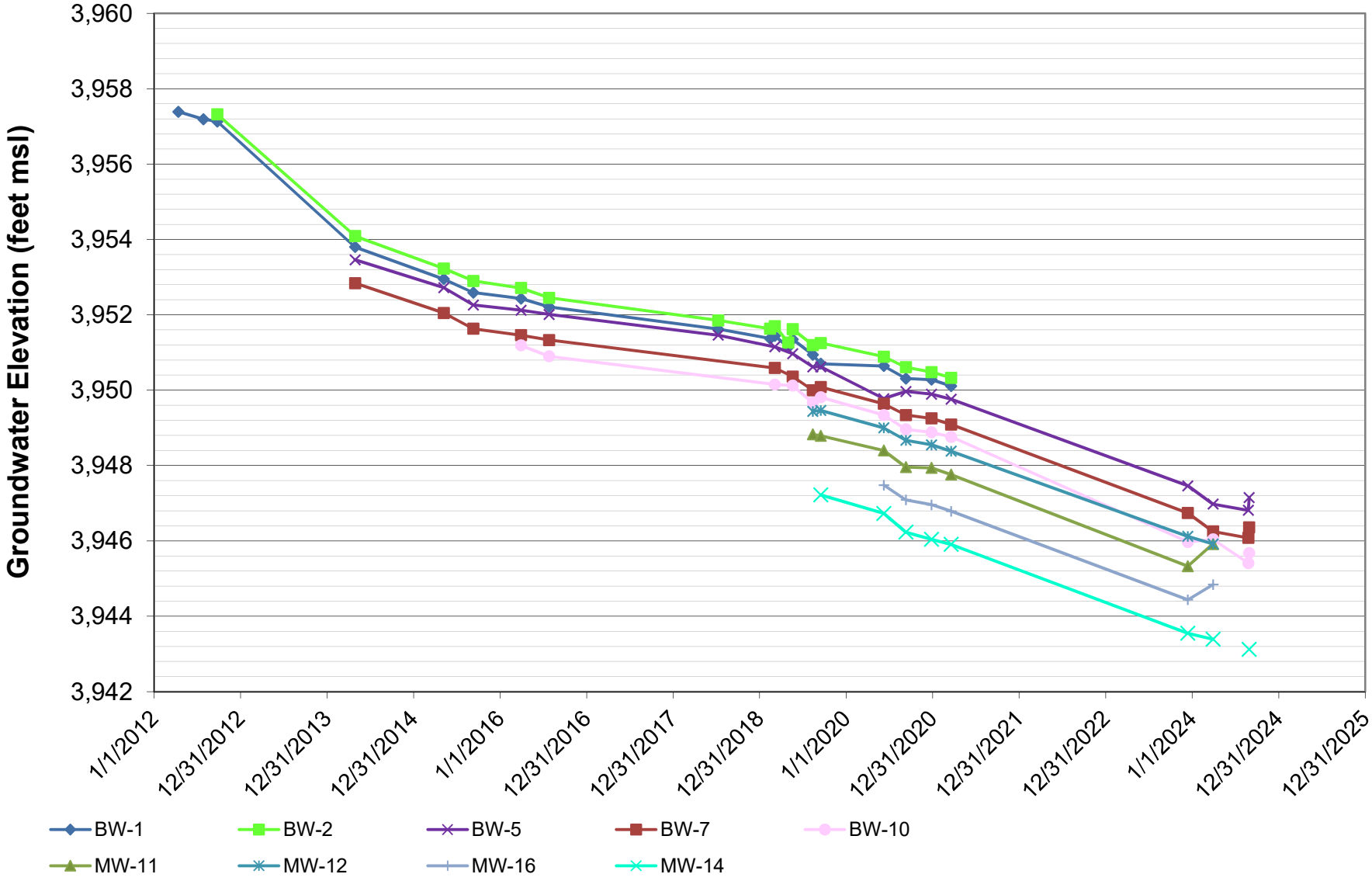
Appendix G

Graphs

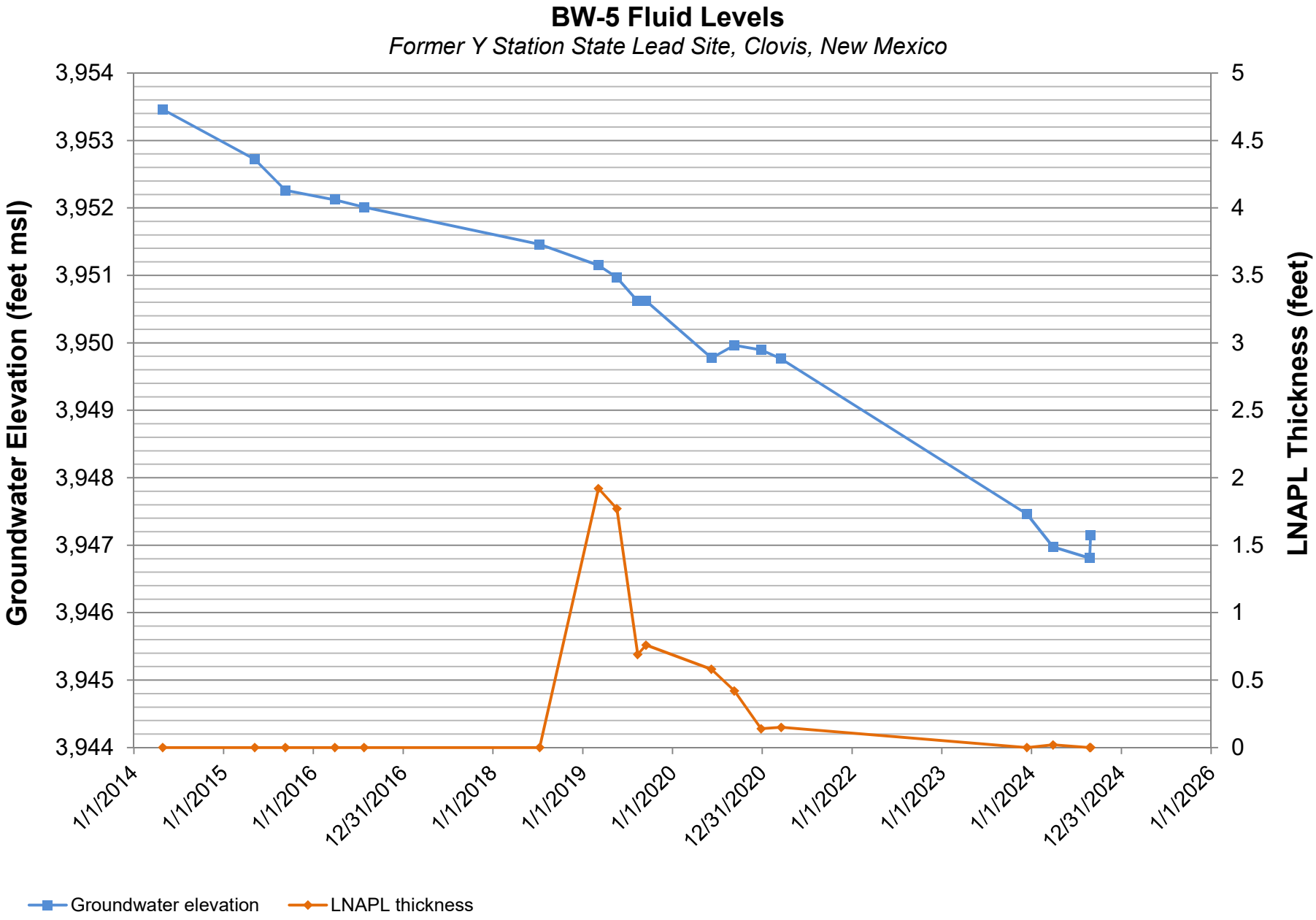
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Groundwater Elevations

Former Y Station State Lead Site, Clovis, New Mexico

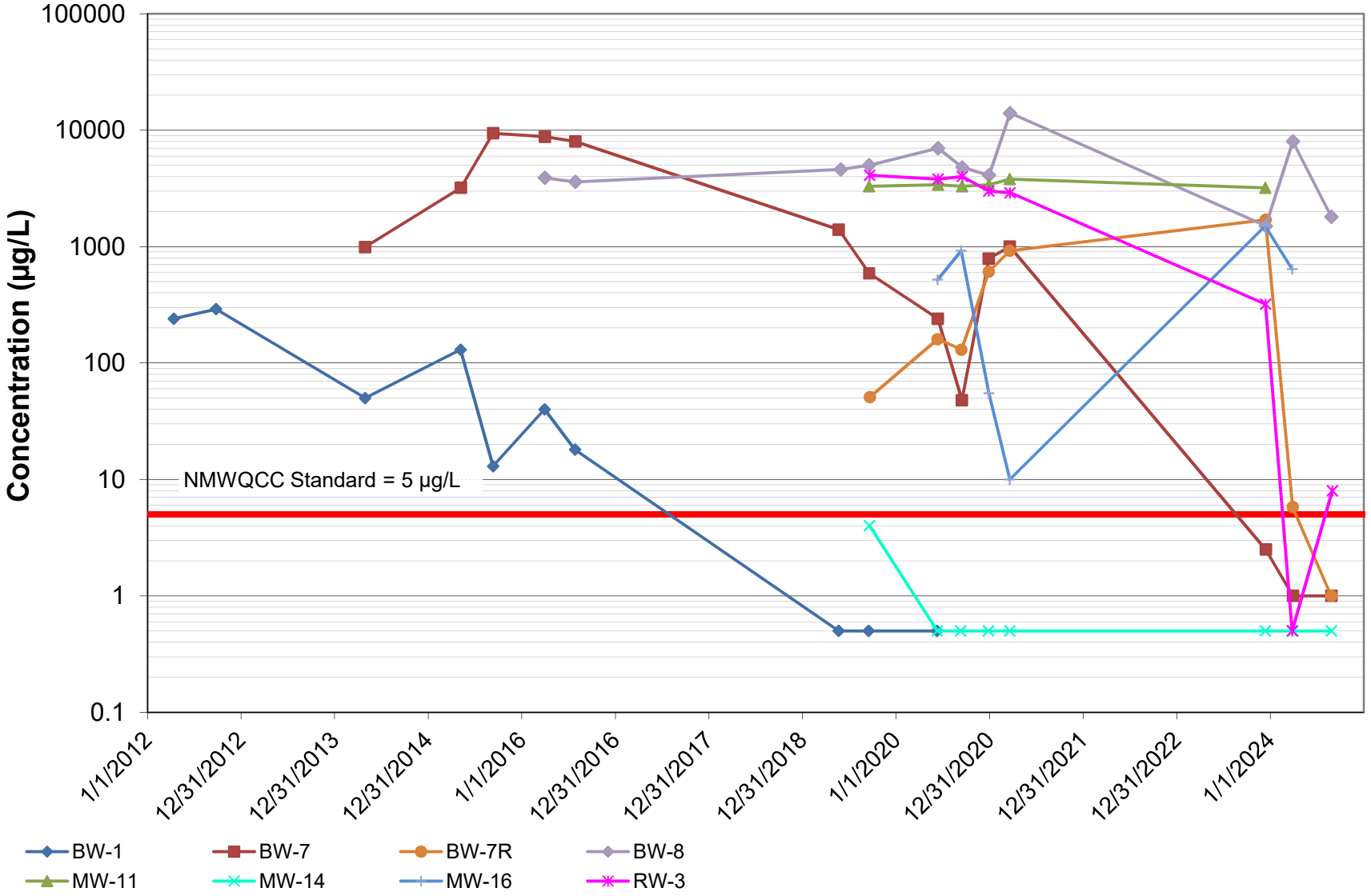


S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls GW Elevations


BW-5 Fluid Levels
Former Y Station State Lead Site, Clovis, New Mexico
Groundwater Elevation (feet msl)
LNAPL Thickness (feet)
3,954
3,953
3,952
3,951
3,950
3,949
3,948
3,947
3,946
3,945
3,944
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2014
1/1/2015
1/1/2016
12/31/2016
1/1/2018
1/1/2019
1/1/2020
12/31/2020
1/1/2022
1/1/2023
1/1/2024
12/31/2024
1/1/2026
Groundwater elevation
LNAPL thickness

Benzene Concentrations

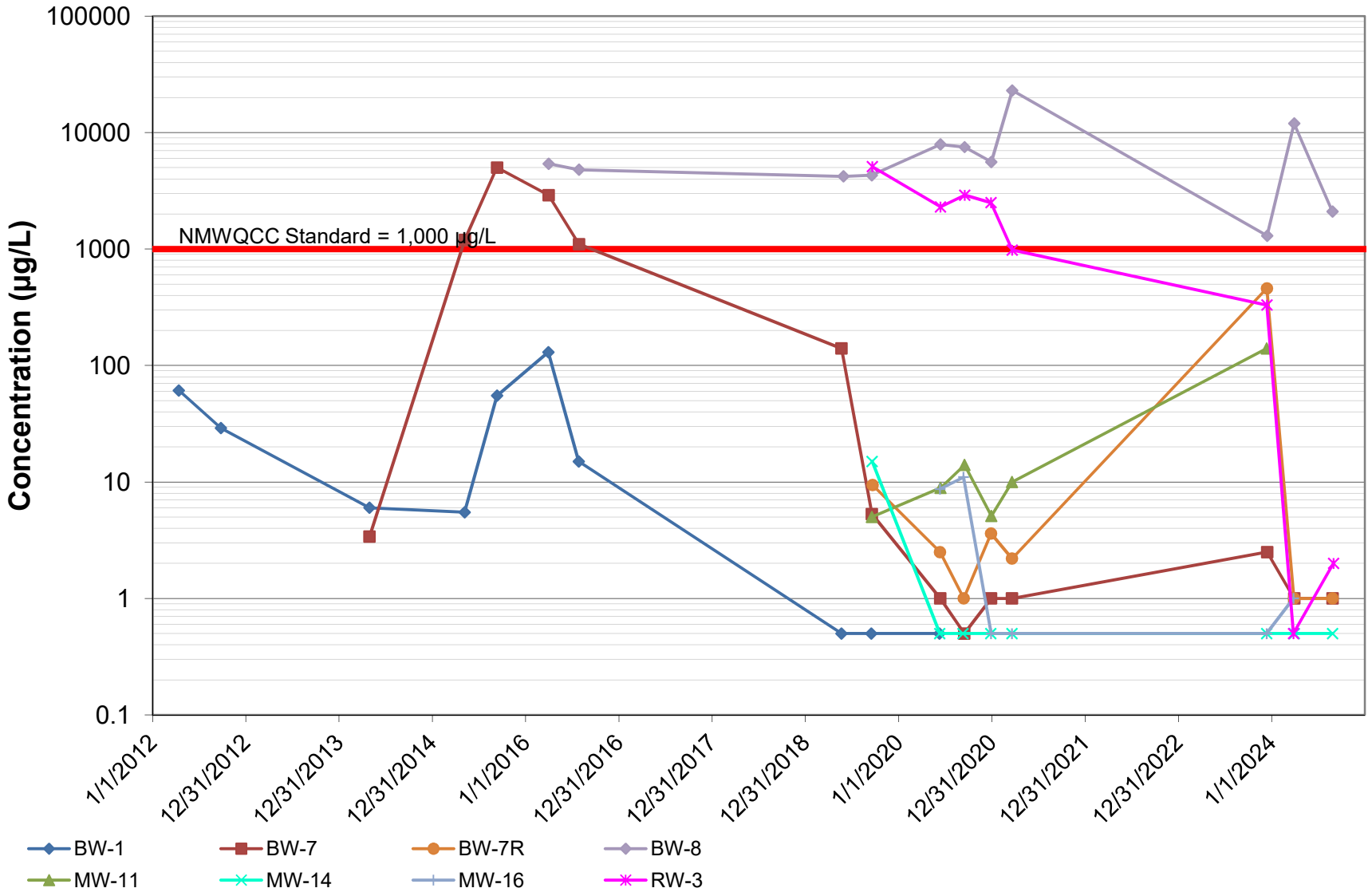
Former Y Station State Lead Site, Clovis, New Mexico



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Toluene Concentrations

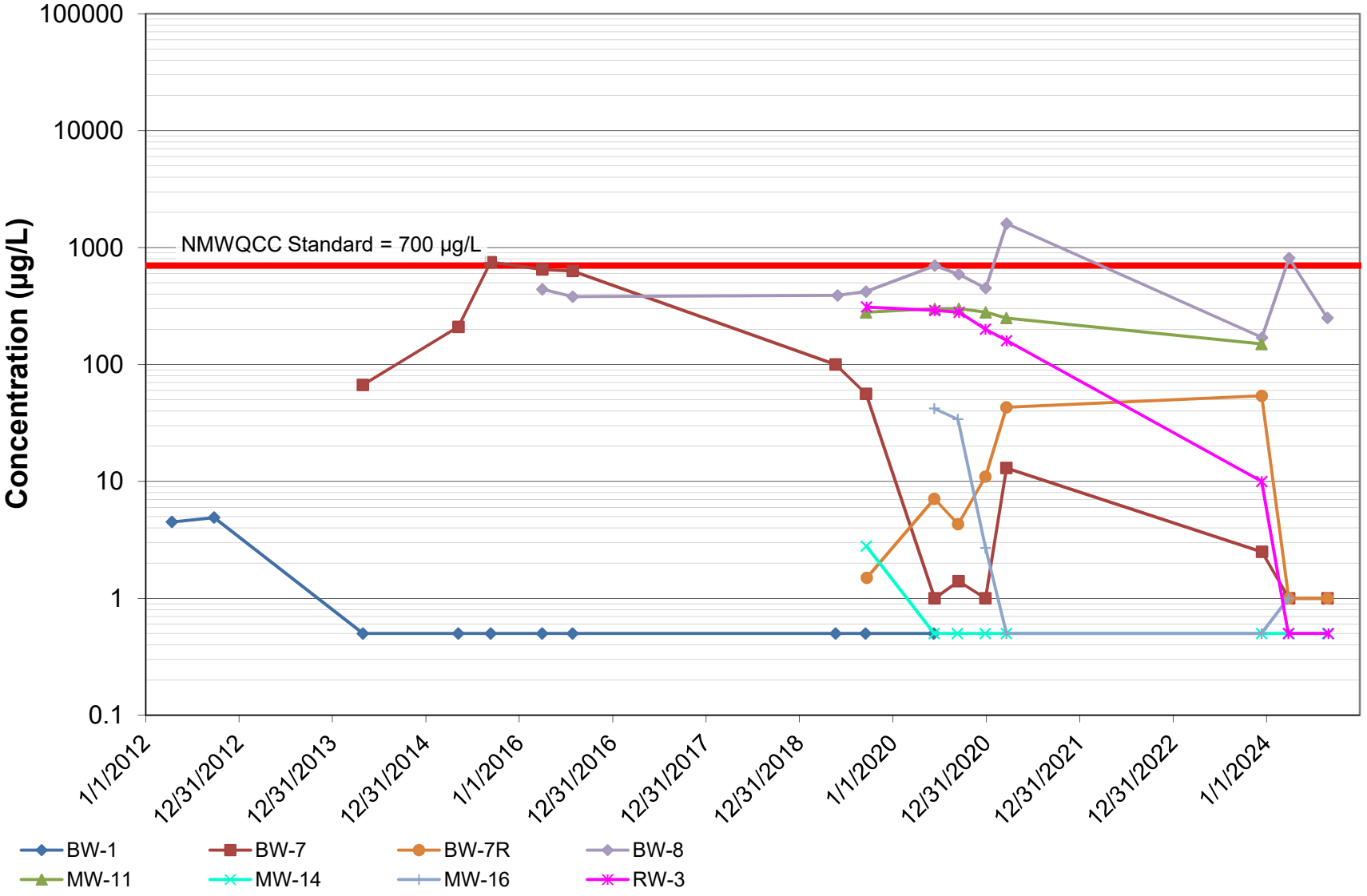
Former Y Station State Lead Site, Clovis, New Mexico



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Ethylbenzene Concentrations

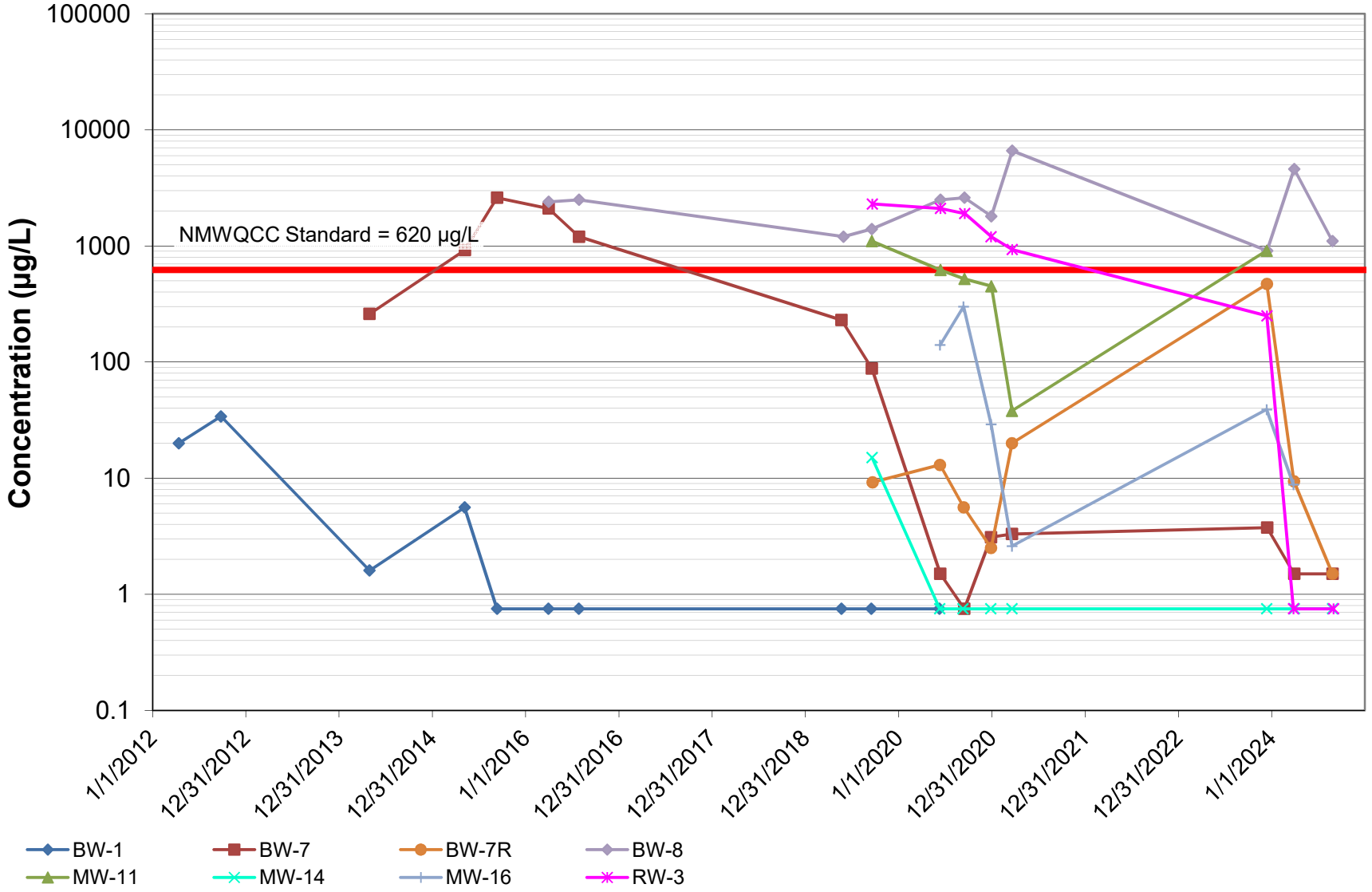
Former Y Station State Lead Site, Clovis, New Mexico



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Total Xylene Concentrations

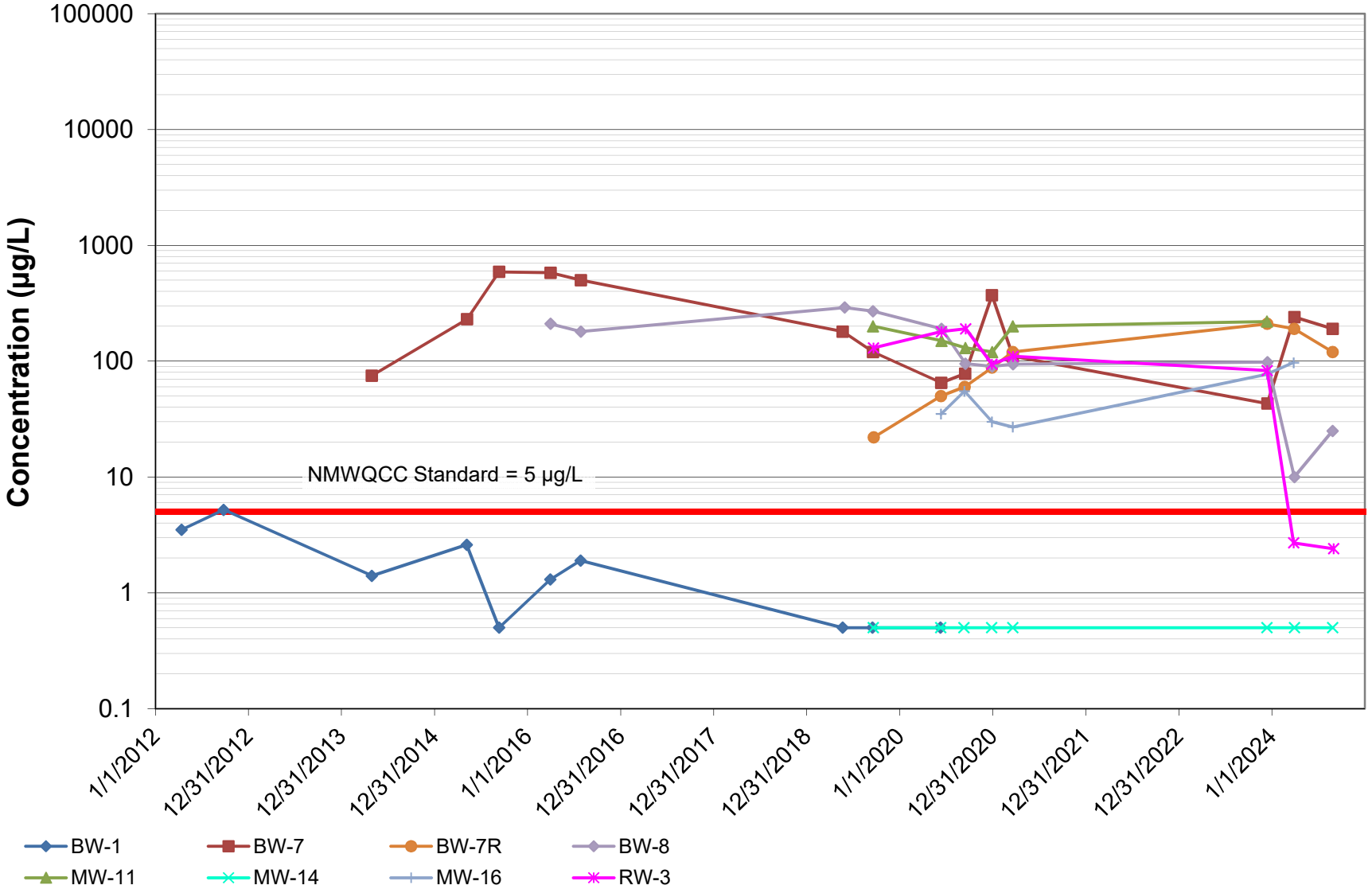
Former Y Station State Lead Site, Clovis, New Mexico



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EDC Concentrations

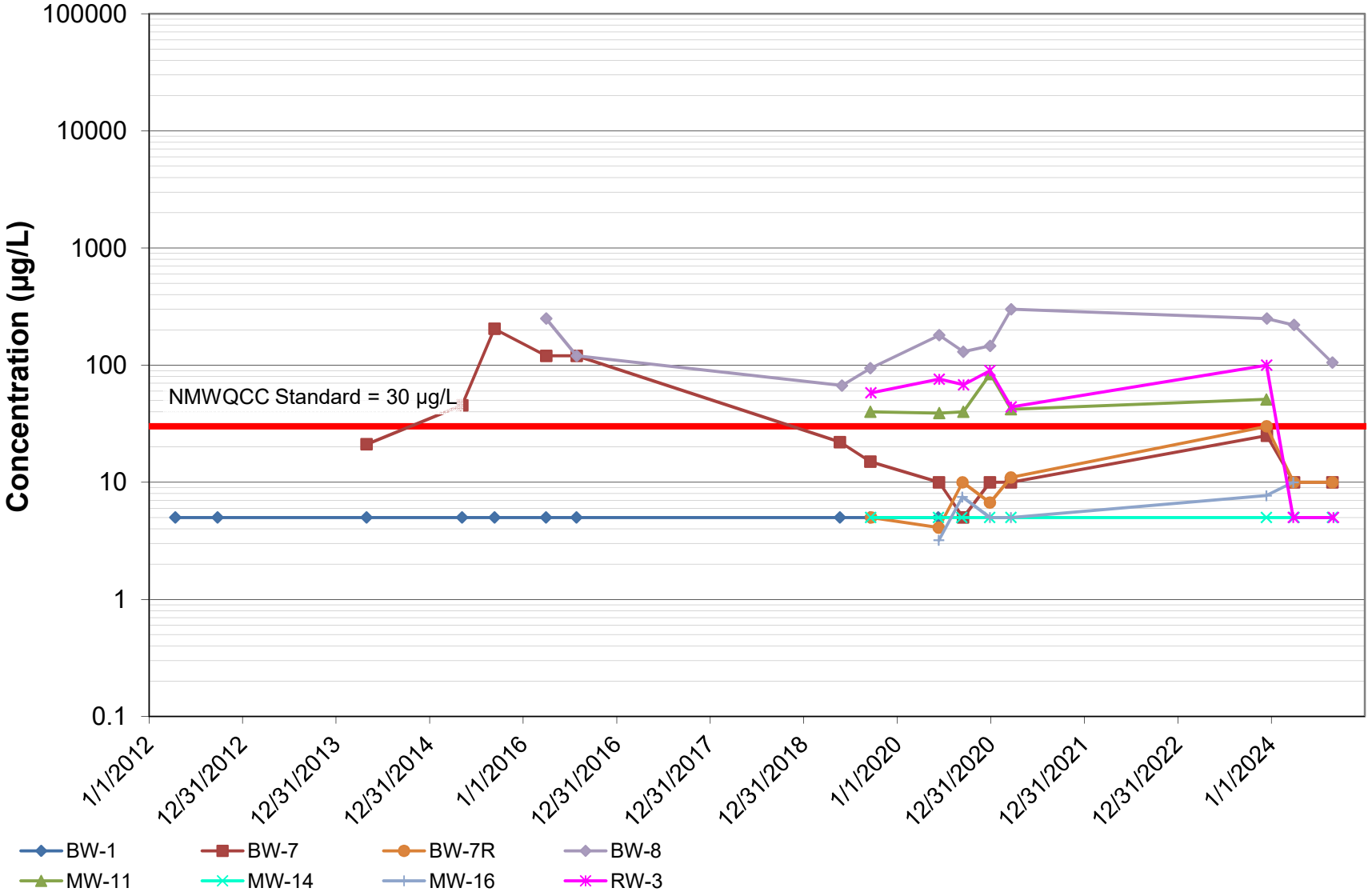
Former Y Station State Lead Site, Clovis, New Mexico



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Total Naphthalene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



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Appendix H

Baseline Plume Maps

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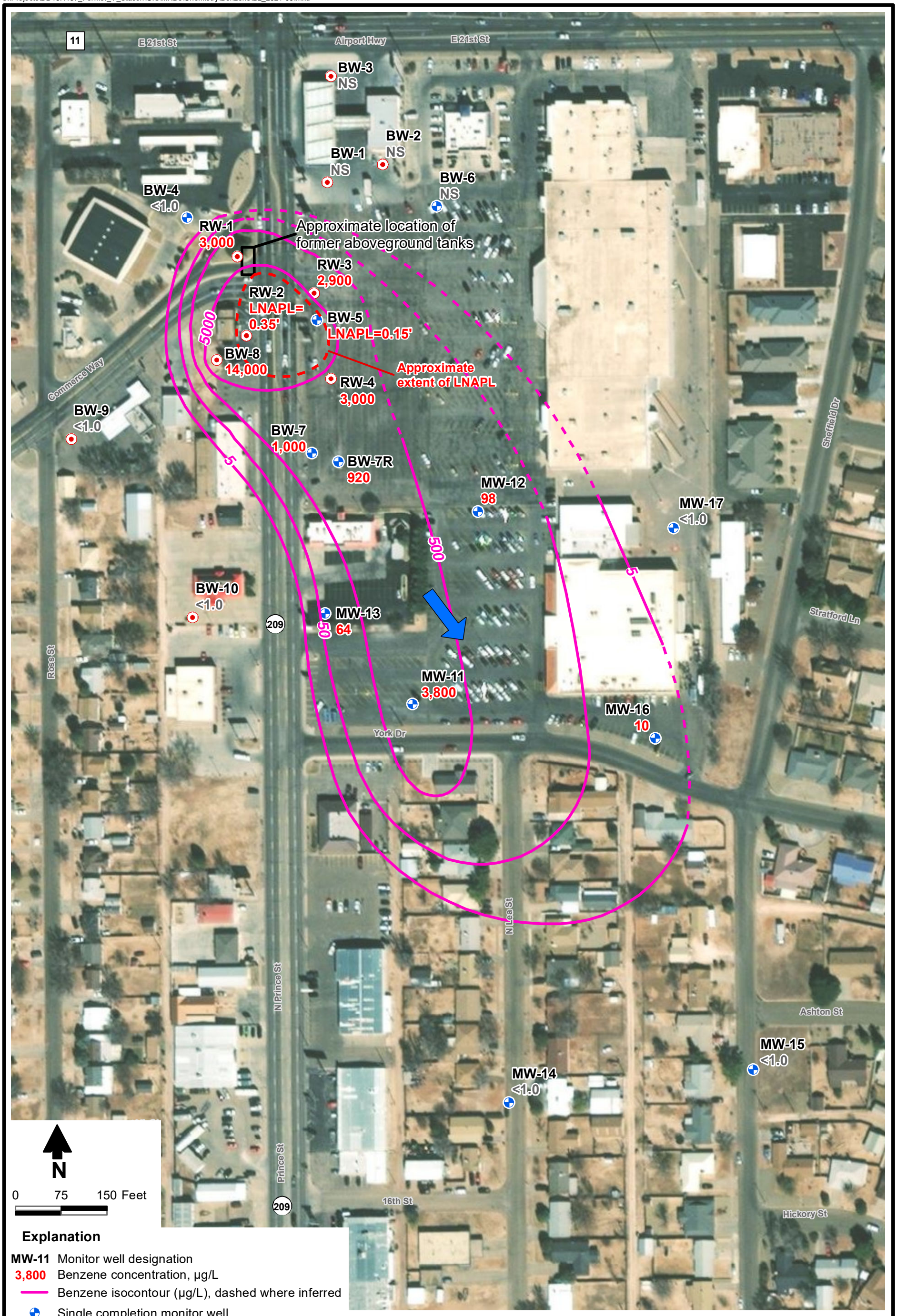
Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. [a] Laboratory reporting limit is equal to or greater than the applicable standard.
4. Samples presented on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Distribution of Dissolved-Phase Contaminants - March 2021

Daniel B. Stephens & Associates, Inc.
4/15/2021 JN DB18.1157.00

S:\Projects\DB18.1157_Former_Y_Station\GIS\MXDs\Chemistry\Benzene\Bz_2021-03.mxd



Explanation

MW-11 Monitor well designation
3,800 Benzene concentration, µg/L
Benzene isocontour (µg/L), dashed where inferred
Single completion monitor well
Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. Samples collected on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Benzene Isoconcentration Map
March 2021

Daniel B. Stephens & Associates, Inc.
4/15/2021 JN DB18.1157.00

S:\Projects\DB18.1157_Former_Y_Station\GIS\MXDs\Chemistry\EDC\EDC_2021-03.mxd



Explanation

MW-11 Monitor well designation

200 EDC concentration, µg/L

EDC isocontour (µg/L), dashed where inferred

Single completion monitor well

Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. Samples collected on this figure were collected using HydraSleeve sampling devices.

Daniel B. Stephens & Associates, Inc.

4/15/2021 JN DB18.1157.00

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

EDC Isoconcentration Map
March 2021

S:\Projects\DB18.1157_Former_Y_Station\GIS\MXDs\Chemistry\EDB\EDB_2021-03.mxd



Explanation

MW-11 Monitor well designation
0.14 EDB concentration, µg/L
EDB isocontour (µg/L), dashed where inferred
Single completion monitor well
Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. Samples collected on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

EDB Isoconcentration Map
March 2021

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4/15/2021 JN DB18.1157.00