Updated Remedial Investigation Addendum No. 1

Federal Way Link Extension Parcel FL358
Y Pay Mor Drycleaner Site
2210 South 320th Street
Federal Way, Washington

for
Sound Transit

October 2, 2025

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GeoEngineers

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File No. 4082-039-03
October 2, 2025

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1.0 Introduction

This report presents the Updated Remedial Investigation Addendum No. 1 to the 2023 Updated Remedial Investigation (2023 RI) for the "Y Pay Mor Drycleaner" Site located at 2210 South 320th Street in Federal Way, Washington (also referred to as "Y Pay Mor Cleaners" or "Site"). The Site contains chlorinated volatile organic compounds (CVOCs) consisting of tetrachloroethene (PCE) and PCE breakdown products (trichloroethene [TCE], cis-1,2-dichloroethene [cis-DCE], trans-1,2-dichloroethene [trans-DCE], and vinyl chloride) in soil and groundwater.

The Site is identified in Washington State Department of Ecology (Ecology) databases as Facility Site ID Number 2518 and Cleanup Site ID Number 3180. The Y Pay Mor Site is located within the boundary of the previous King County Parcel No. 2423200050, identified by Sound Transit as Federal Way Link Extension (FWLE) Parcel FL358 (Parcel FL358). Parcel FL358 was acquired by Sound Transit in 2020 and is situated within the Federal Way Downtown (FWD) Station development area of the Sound Transit FWLE Project. The general Site location is shown on Figure 1. The Y Pay Mor Site and FWD Station area is shown on Figure 2.

The Y Pay Mor Cleaners was a commercial dry cleaning business that occupied "Space A-6" in the easternmost portion of the former Best Shopping Plaza (subsequently renamed SeaTac Plaza) building from approximately 1985 to 1992 (RZA AGRA 1992). Two spills of the dry cleaning solvent PCE occurred inside the Y Pay Mor Cleaners in 1991 and were reported to Ecology (herein called "area of 1991 spills" and/or "Southern Source Area"). Subsurface investigations conducted at the Site in 1992 identified CVOCs in soil and/or groundwater in the area of the 1991 spills. A preliminary Remedial Investigation (1992 RI) was completed in 1992 and an interim action consisting of a soil vapor extraction (SVE) system was completed between 1993 and 1994 (RZA AGRA 1994 and AGRA 1994). Ecology issued a No Further Action (NFA) with restrictive covenants in 1998 (see Section 2).

Investigations conducted in 2020 identified a second PCE source area near a stormwater catch basin in the loading dock area north of the former dry cleaner space (herein referred to as "Northern Source Area"). An interim action consisting of remedial excavation was completed in 2020 (OSG 2021) and GeoEngineers prepared an Updated Remedial Investigation in 2023 (GeoEngineers 2023). The 2023 RI identified CVOCs in the soil and/or groundwater. Additional remedial investigation was completed between 2023 and 2025 to delineate the groundwater plume and evaluate groundwater quality and seasonal trends. The purpose of this RI Addendum is to provide relevant updates to the 2023 RI based on the results of the additional remedial investigation.

2.0 Regulatory History and Current Framework

The Site is identified in Ecology's cleanup sites database as "Y Pay Mor Drycleaner" (alternate name "Sea Tac Plaza"), Cleanup Site ID 3180, Facility Site ID 2518. Sound Transit is conducting a cleanup of the Site under Washington State's Model Toxics Control Act (MTCA). Sound Transit purchased the Parcel FL358 in 2020. Sound Transit enrolled in Ecology's Voluntary Cleanup Program (VCP) (No. NW3265) in Spring 2020.

Ecology issued an NFA determination for the Site in 1998 based on investigations and interim actions in the 1990s. The 1998 NFA was conditioned on restrictive covenants recorded for the former Y Pay Mor Cleaner tenant space. A restrictive covenant dated September 21, 1995 was recorded under King County

recording number 9510121424 and a second restrictive covenant dated July 24, 1998 was recorded under King County recording number 9808101434.

A summary of Ecology's correspondence regarding technical assistance under the VCP, as well as approvals related to restrictive covenants for Sound Transit's investigations and construction activities since 2023, is provided below[1]. Additional details on Ecology correspondence prior to 2023 are described in the 2023 RI.

- April 2024: Ecology provided written approval for residential development within the Y Pay Mor Site.
- August 2024: Ecology provided comments on Sound Transit's RI Work Plan Addendum No. 1 and approved Sound Transit's activities as presented in the Work Plan.
- December 2024: Ecology provided comments on Sound Transit's RI Work Plan Addendum No. 2 and approved Sound Transit's activities as presented in the Work Plan.
- May 2025: Ecology provided a Technical Assistance letter regarding mitigation measures for Transit-Oriented Development (TOD) sites 1 and 2[2]. Ecology stated the proposed mitigation measures were appropriate for managing potential impacts encountered during redevelopment of TOD sites 1 and 2. Ecology also completed a Site Hazard Assessment and Ranking Process (SHARP) analysis with the Site rated as "low."

3.0 Background

This section provides updates to Section 3.0 of the 2023 RI. Adjacent property uses, underground utilities, climate, and surface water/stormwater are described in the 2023 RI and are not repeated here.

3.1 LAND USE AND HISTORY

The Site is situated in the northeastern portion of the former King County Parcel 2423200050 (Sound Transit Parcel FL358). Parcel FL358 is approximately 7.5 acres and located approximately 0.3 miles west-northwest of the intersection of Interstate 5 (I-5) and South 320th Street in Federal Way (Figures 1 and 2). The surrounding area has been developed primarily for commercial uses and has recently been developed as the FWD Station.

The Parcel FL358 appeared to be undeveloped with trees until 1949 (GeoEngineers 2017a). A drainage is present on the eastern portion of the former Parcel FL358 in the 1949 topographic map and is not present in later topographic maps. Archived assessor's records indicate a residence was located on the southern portion of Parcel FL358 in 1956 and the area appears logged in aerial photographs.

An unimproved roadway traverses the southwestern portion of Parcel FL358 in 1968, and most of the property has been logged. North/south oriented drainages are present on the northern portion of Parcel FL358 and an oval shaped lowland pond area is present on the southern portion of Parcel FL358.

[1] Ecology letters are provided at https://apps.ecology.wa.gov/cleanupsearch/site/3180

[2] Sound Transit has identified four TOD sites within the FWD Station (Sound Transit TOD sites 1 through 4). The TOD sites are shown on Figure 2.

Parcel FL358 was regraded with up to 19 feet of fill in late 1970s based on the design plans and topographic survey for the SeaTac Plaza shopping center. SeaTac Plaza shopping center was constructed in 1979.

Y Pay Mor Cleaners operated in the easternmost tenant space of the main shopping center building (Space A-6) from approximately November 1985 to June 1992 (RZA AGRA 1992) (Figure 2). Prior to that time, Space A-6 was occupied by various commercial businesses from 1979 to 1985, and following the dry cleaner's departure, the space was occupied by other tenants, including a restaurant and a laser tag facility[3].

Two PCE spills were reported inside the Y Pay Mor Cleaners tenant space in 1991. Both spills occurred on the concrete floor in the vicinity of the dry cleaning equipment along the then-western wall of Space A-6. The first spill in August 1991 involved an estimated 6 gallons of PCE. The second spill occurred in October 1991 and reportedly covered a surface area of approximately 10 feet by 15 feet. Both spills were reported to Ecology by the responding fire department and were cleaned up by Chemical Processors, Inc. (RZA AGRA 1992). More recent investigations identified an additional source area of PCE in the vicinity of an exterior stormwater catch basin located in the loading dock area directly north of the former tenant space. Interim remedial actions were completed at the Site in 1993/1994 and in 2020.

The area of the Site was redeveloped as part of the Sound Transit link light rail expansion. The former shopping center building was demolished in 2020 and up to 14 feet of additional fill was placed. The area has been reconfigured as the larger FWD Station including a bus loop and light rail station, paved roads, and utilities. Four TOD lots are planned and identified as TOD sites 1 through 4 (Figure 2). Construction of the FWD Station is anticipated to be completed by late 2025. Development on TOD sites 1 and 2 is anticipated as early as 2027. The timeline for development on TOD sites 3 and 4 is not currently known.

Sound Transit recently completed a lot line adjustment to consolidate the six individual parcels (including FL358) into two large parcels (identified as King County Parcel Nos. 2423200020 and 2423200050). One parcel is the eastern portion of the FWD Station and includes the bus loop and light rail station. The second parcel is the western portion of the FWD Station and includes the remainder of the area, encompassing the future rights-of-way and TOD sites. The Y Pay Mor Site is present on both parcels. A future final binding site plan will designate parcel lines for the TOD sites, Federal Way right-of-way, and the northern parking garage (currently King County Parcel No. 0921049298). The layout of the former, current, and future parcels is shown in Appendix A.

3.2 ENVIRONMENTAL SETTING

3.2.1 Physiography and Surface Elevations

The Site is situated in the southern portion of the Puget Sound Lowland, which is bounded by the Green River valley to the east, the Puyallup River valley to the south, and Puget Sound and the Olympic Mountains to the west.

[3] Parcel FL358 was owned by SeaTac Plaza Limited Partnership (STP) between 1979 and 1996. Tri-Center Associates (TCA) served as the general partner of STP. TCA itself was a general partnership, whose general partners were Caseta Corporation and NWB Management Corporation based on information provided by Cascadia Law.

The FWD Station was part of a larger drainage basin that extended to South 312th Street and has been modified over time based on historical topographic maps and the 1976 Stormwater Detention Report for the Evergreen Plaza Shopping Center (Bush, Roed, and Hitchings 1976a). A topographic survey was also developed in the 1970s for the area of the FWD Station during the development of the shopping center. The survey shows the former ground surface elevations were variable and ranged from Elevation 403 to 433 feet (NAVD88)[4]. The lowest elevations were within former ponds south of the Y Pay Mor Site (Figure 2).

Up to 19 feet of fill was placed to grade the entire area during development in 1979. A stormwater pond was also constructed southwest of Parcel FL358. The base of the stormwater pond was approximately Elevation 403 feet (NAVD88) based on the 1978 design plans. The ground surface elevation during the shopping center operation and up to August 2020 ranged from approximately 420 feet to 426 feet (NAVD88).

Sound Transit acquired Parcel FL358 and several surrounding parcels in 2020 as part of the FWLE project. Up to 14 feet of additional embankment fill was placed across the FWD Station between late 2020 and 2025, raising the ground surface elevation of the former Y Pay Mor dry cleaner space to Elevations 434 and 436 feet (NAVD88). The roadway, bus loop and station area are at final grade at the time of this report. Final grading is planned to occur in the next six months within TOD areas and the ground surface elevations may change up to 5 feet.

3.2.2 Geology and Soil

The Site is located within the Puget Sound Lowland, which is bounded by the Cascade Mountains to the east and the Olympic Mountains to the west. The Puget Sound Lowland is a north-south trending trough consisting of a thick sequence of Quaternary deposits (approximately 1.8 million years old to present). The Puget Lowlands experienced at least six periods of continental glaciation during the Pleistocene (Blunt et al. 1987; Easterbrook 1994). The most recent glacial episode affecting the Site vicinity is referred to as the Vashon Stade of the Fraser Glaciation (Armstrong et al. 1965), which occurred approximately 10,000 to 25,000 years ago. Glacial and fluvial activity, and erosion associated with the advancement and retreat of the Puget Lobe during the Pleistocene Epoch, formed a thick sequence of unconsolidated sediments of both glacial and non-glacial origin that underlay the Site.

General geologic conditions in the Site vicinity were evaluated by reviewing the United States Geological Survey (USGS) geologic map for the Site area (Tabor et al. 2014). Native geologic soils at the Site area include Vashon till. The till was deposited by and directly beneath the advancing Vashon-age glacier as it moved south through the Site area. The deposit typically consists of a dense mixture of silt, silty sand, and sand with silt and gravel. Non-glacial Holocene deposits, which include wetland deposits of peat and alluvium, are mapped in the area surrounding the Site. Up to 30 feet of cumulative embankment fill has been placed in the FWD Station area. Soil stratigraphy is illustrated in the generalized geologic cross

[4] The North American Vertical Datum of 1988 (NAVD88) is approximately 3.37 feet different in elevation compared to the 1970s King County Aerial Elevation (i.e., Elevation 430 feet using 1970s King County Aerial Elevation datum is the equivalent to Elevation 433.37 feet NAVD88). The elevation conversion described in report titled "Environmental Summary and Mitigation Measures, Y Pay Mor Site, Transit Oriented Development Sites 1 and 2, Federal Way Downtown Station, Federal Way, Washington," dated May 8, 2025, was incorrect.

sections presented on Figures 3 and 4. Additional discussion of soil stratigraphy based on the RI results is provided in Section 5.1.

3.2.3 Hydrogeology

Groundwater at the Site appears to be present in two water-bearing zones. The shallow water-bearing zone is within fill that overlies a dense glacial till aquitard, the top of which was encountered at approximately 30 to 40 feet below 2025 ground surface (bgs) (Elevation 395 to 400 feet [NAVD88]). The shallow unconfined groundwater is present within the fill and native glacial material, herein referred to as "shallow aquifer." The shallow aquifer likely contains discontinuous perched zones with the fill and native material due to variable soil lithology. The flow direction for the shallow aquifer is variable and has southern, southwestern, and western components. The lower water-bearing unit is confined in the advance outwash beneath the glacial till aquitard and herein referred to as the "deep aquifer."

Water supply sources were evaluated based on the King County Groundwater Resources and Ecology Water Rights Search (King County 2017, Ecology 2025). There are no major groundwater supply wells within the Site. One Group A well (public water) for Lakehaven Water and Sewer District, identified as Well 18, is located approximately 7,500 feet downgradient of the Site with the modeled 10-year capture zone situated approximately 620 feet downgradient of the Site (Figure 5). The depth of the well is reported to be approximately 160 feet deep (Andrew Weygant, pers comm 2025). Two Group D (domestic water) wells are located at least 1,300 feet downgradient of the Site according to the King County Groundwater Resources map; however, the locations of these wells are not shown in Ecology's Water Rights Search database[5]. One of the domestic wells is reportedly screened at 28 feet bgs and the other well is reportedly screened at 463 feet bgs. It is unclear if the Group D wells shown on the King County Groundwater Resources map have active water rights.

4.0 RI Field Investigations (2023 to 2025)

Supplemental RI field activities were conducted between March 2023 and June 2025. The objective of these RI field activities was to delineate the chlorinated volatile organic compound (CVOC) groundwater plume and evaluate seasonal groundwater trends. The investigation included the installation of 16 permanent monitoring wells between September 2024 and February 2025, 10 quarterly groundwater sampling events between March 2023 and June 2025, and completion of slug tests of two wells. The locations of the explorations are presented in Table 1 and Figure 2. Groundwater elevations are summarized in Table 2. Soil and groundwater chemical analytical results are summarized in Tables 3 and 4. The exploration logs detailing the materials encountered and field screening results, are presented in Appendix B. The laboratory reports are included in Appendix C, and the data validation reports are included in Appendix D. Below is a detailed summary of the investigation:

[5] The King County data source states the accuracy of the well location data is based on the Township/Range/Section/Quarter/Quarter placement. The error of this location can be up to 500 feet. However, the wells near the Site appear more accurate and align with former buildings visible in aerial photographs from 1968.

- **Sixteen monitoring wells.** The borings (FL358-MW15 through FL358-MW30) were completed as monitoring wells using hollow-stem auger (FL358-MW15 through FL358-MW22[6]) or rotosonic (FL358-MW23 through FL358-MW30) drilling methods. The wells were completed with 20-foot-long screened intervals, with the bottom of the screens set at the approximate top of the inferred confining layer below the shallow aquifer, if observed.
- **Thirty-eight soil samples were analyzed for chemical and physical analyses.** The soil samples were collected from selected exploration borings and analyzed for PCE, TCE, cis-DCE, trans-DCE, DCE, and vinyl chloride by Environmental Protection Agency (EPA) Method 8260. Cis-DCE was detected at a concentration of 0.0011 milligram per kilogram (mg/kg) in one sample collected from boring FL358-MW17 at a depth of 32.5 feet bgs. PCE, TCE, cis-DCE, trans-DCE, DCE, and vinyl chloride were not detected in the remaining samples analyzed (Table 3).
  - Three soil samples from boring FL358-MW18 were analyzed for physiochemical parameters (total solids, bulk density, and total organic carbon) and grain size analysis (Appendix B).
- **One hundred and twenty-four groundwater samples were analyzed for chemical and/or biological analysis.** The groundwater samples were collected from existing monitoring wells FL358-MW5A through FL358-MW14 and newly installed monitoring wells FL358-MW15 through FL358-MW30. Groundwater monitoring events were complete in March and June 2024 (11 wells), September 2024 (19 wells), December 2024 (23 wells), and March and June 2025 (26 wells).
  - Groundwater samples were analyzed for PCE, TCE, cis-DCE, trans DCE, DCE, and vinyl chloride by EPA method 8260 (Table 4). PCE, TCE, cis-DCE, trans-DCE and/or vinyl chloride were detected in the groundwater samples collected from the monitoring wells. DCE was not detected in the samples analyzed. The maximum detected concentrations were 350 micrograms per liter (µg/L) (PCE), 200 µg/L (TCE), 170 µg/L (cis-DCE), 1.5 µg/L (trans-DCE) and 9.4 µg/L (vinyl chloride).
  - Groundwater samples collected during the quarterly sampling events were additionally tested for dissolved gases (ethane, ethylene, methane, and acetylene) and conventional analyses (biologic oxygen demand [BOD] by Method SM5210B, total organic carbon [TOC] by Method SM5310B, ammonia by Method SM4500-NH3D, nitrate and nitrite by Method 353.2, and total iron by method 6010D). Selected samples were analyzed for ferrous iron by Method SM3500-Fe B. Sulfate analysis by Method D516-11 was added in March 2024 and chloride ion analysis by method SM 4500-Cl E was added in June 2024. Results for dissolved gases and conventionals are summarized in Table 4 and generally show evidence of favorable conditions for degradation of PCE within the Site.
  - Groundwater samples collected from wells FL358-MW5A, FL358-MW11, and FL358-MW18 were submitted for QuantArray-Chlor analysis in September 2024. QuantArray-Chlor evaluates the presence of halorespiring bacteria (Dehalococcoides, Dehalobacter, Dehalogenimonas, etc.) and provides quantification of functional genes involved in anaerobic and aerobic (co)metabolic pathways for biodegradation of chlorinated solvents (vinyl chloride reductase, TCE reductase, etc.). The presence of microbial populations that are helpful in degradation PCE to ethene including halorespiring bacteria and reductase was rated as “low” to “mid-low” in samples collected from FL358-MW5A and FL358-MW11 and “low” to “mid” in the sample collected from FL358-MW18. A summary of the results is included in Microbial Insights laboratory report in Appendix C.

[6] Well FL358-MW18 was decommissioned because the placement of the well was inadvertently within the future pedestrian plaza.

- **Water Levels.** Site-wide water level gauging was conducted during each groundwater sampling event to measure static water levels generally within a 1-hour window (Table 2). Typically, water levels were either measured before groundwater sampling occurred, or on a day where groundwater sampling was not performed. Depths to groundwater in the monitoring wells ranged from approximately 7 to 33 feet bgs (corresponding to Elevation 403 to 428 feet).
- **Slug Tests.** Slug tests were completed at two wells (FL358-MW16 and FL358-MW20) to evaluate the hydraulic conductivity across the screened formations. Hydraulic conductivities were calculated in feet per day using the Bouwer and Rice method (Bouwer 1976). The field and evaluation methodology are described in Appendix E. Hydraulic conductivity results are included in Table 1.

The Site-wide shallow aquifer groundwater elevation data and slug tests were used to develop groundwater elevation contours, hydraulic conductivity, and linear groundwater flow velocities. Calculations based on field hydrogeologic measurements are discussed in Section 5.2.

5.0 Conceptual Site Model

Key elements of the conceptual site model (CSM) including sources of contamination, geological and hydrogeological setting, fate and transport, and receptors and exposure pathways are summarized in the following sections. The nature and extent of contaminants is summarized in Section 7.1. A graphical representation of the CSM is shown on Figure 12.

5.1 CONTAMINANT RELEASE

The Y Pay Mor dry cleaner operated from November 1985 to June 1992. Two source areas of historical PCE releases associated with the Y Pay Mor dry cleaner have been identified: (1) the Southern Source Area (i.e., the area of the former dry cleaning equipment, floor drain/drainpipe, and 1991 PCE spills) and (2) the Northern Source Area (i.e., the stormwater catch basin in the loading dock area north of the former dry cleaner tenant space).

PCE was detected in the soil and groundwater in the Southern Source Area in 1992 at concentrations up to 7,200 mg/kg and 1,700 µg/L, respectively. After SVE operations were completed in September 1994, CVOCs remained in soil at depths of 5 to 8 feet below the former shopping center building slab. Cis-DCE was subsequently detected in the groundwater downgradient of the Southern Source Area between 1994 and 1997. Groundwater was not evaluated within the Southern Source Area in the 1990s following operation of the SVE system.

An investigation was completed between 2017 and 2020 to evaluate the extent of soil and groundwater impacts associated with the former Y Pay Mor dry cleaner; CVOCs were identified in soil and groundwater in the Southern and Northern Source Areas. The detected CVOC concentrations were greater in the Northern Source Area where remedial action had not occurred to date.

An interim action consisting of two remedial excavation areas was completed in 2020. The PCE and TCE MTCA Method A Unrestricted Land Use (ULU) cleanup level was used as the remedial cleanup level. Approximately 4,200 tons and 39,600 gallons of CVOC-contaminated soil and water were removed during the 2020 interim action. The remedial excavations extended to a maximum depth of 10 to 11 feet below the 2020 ground surface. After completion of the interim action, soil containing PCE and TCE were detected

at concentrations exceeding the MTCA Method A ULU cleanup level below the groundwater table within the Northern Source Area. Soil containing PCE and cis-DCE were detected also in the Southern Source Area.

Investigations were completed between 2022 and 2025 to define the extent of the soil and groundwater conditions and evaluate seasonal trends. PCE, TCE, cis-DCE, trans-DCE and vinyl chloride were detected in the soil and groundwater. The maximum PCE concentration detected was within the Northern Source Area near the former catch basin (up to 150 mg/kg in soil and 350 µg/L in groundwater). PCE and associated degradation products extend downgradient from the source areas with vinyl chloride defining the majority of the plume (maximum concentrations 0.0029 mg/kg in soil and 9.4 µg/L in groundwater).

5.2 GEOLOGY/HYDROGEOLOGY

The stratigraphy of the FWD Station is delineated to include anthropogenic fill, quaternary glacial recessional outwash and lacustrine deposits, peat-like organic constituents, glacial till, and advance glacial outwash. The geologic interpretation is shown in cross-sections A-A' and B-B' (Figures 4 and 5).

The FWD Station has undergone at least two documented phases of anthropogenic fill emplacement, with cumulative fill thicknesses ranging between 10 and 30 feet. The first placement of fill material was conducted during the 1970s concurrent with the construction activities of the shopping plaza. A subsequent fill event occurred from 2020 to 2025 corresponding with development of the FWD Station. Historical topographical analysis, comparing maps from 1949 and 1975, suggests additional regrading and possible fill placement prior to the 1970s although specific dates are unknown. The fill composition is heterogeneous in nature.

Organic-laden soil (comprising silt, sand, peat, and woody debris) is present in the vicinity of the former Y Pay Mor Cleaners and within the former pond identified in the 1975 topographic map. This material is present at the contact between the anthropogenic fill and native soil, inferred to be residual deposits originating from former low-lying areas.

The fill material and organic soil are underlain by soil interpreted as glacial recessional outwash and lacustrine deposits, glacial till (weathered to unweathered), and advance outwash[7]. The recessional outwash and lacustrine deposits and weathered till are generally water bearing and highly variable in composition and extent. The top of the unweathered glacial till was observed between Elevations 395 and 400 feet (NAVD 1988) and appears to act as an aquitard based on a decrease in soil moisture observed during drilling and analytical results that show CVOCs were not detected in soil below Elevation 400 feet in the vicinity of the former Y Pay Mor Cleaners. The unweathered glacial till is up to 10 feet thick and generally present throughout the Site with one exception; the unweathered glacial till was not observed south of the Site within the former pond (FL358-MW18, FL358-MW21 and FL358-MW22).

[7] The geologic/hydrogeologic interpretation is updated from the 2023 RI based on observations during additional drilling. Specifically, the 2023 RI describes the confining layer as glacial lacustrine. The updated geologic/hydrogeologic interpretation describes the confining layer as unweathered glacial till, based on the presence of gravel and the high blow counts associated with this material as noted during RI drilling activities.

Glacial advance outwash characterized by gray sand intermixed with silt and gravel substrates is encountered either beneath the glacial till or in regions devoid of glacial till presence. The glacial advance outwash identified as water-bearing.

The shallow aquifer is present within the fill material and the native recessional outwash and lacustrine deposits and weathered glacial till. The shallow aquifer likely contains perched zones and may be confined in areas based on the composition of the material. The unweathered glacial till acts as a basal confining layer to the shallow aquifer (where present).

The shallow aquifer within the Site occurs between Elevations 410 to 428 feet based on June 2022 through July 2025 data[8]. The groundwater levels fluctuated seasonally approximately 2 to 7 feet based on June 2022 through July 2025 measurements. Measured groundwater levels near the former Y Pay Mor dry cleaners were up to 7 feet higher between the 2020 investigation and 2022 investigations. Significant changes that occurred at the Site during that period and potentially influenced local groundwater levels included removal of surface features such as the building and pavement, placement of up to 14 feet of fill, and the construction and operation of a construction vehicle wheel wash.

The horizontal hydraulic gradient is estimated to range from approximately 0.03 to 0.07 foot per foot (ft/ft), and the inferred shallow aquifer groundwater flow direction is multidirectional toward the south-southwest and west based on the 2022 to 2025 groundwater elevation data. The estimated average linear shallow aquifer groundwater velocity ranges from 0.02 to 0.7 ft/day[9] based on gradient and hydraulic conductivity, which vary throughout the Site.

5.3 FATE AND TRANSPORT

The Y Pay Mor Site consists of CVOC-contaminated soil and groundwater within the shallow aquifer. The CVOC contamination is due to spills and leaks from former dry cleaner operations in two source areas: the Southern Source Area which was where documented spills of PCE occurred within the building, and the Northern Source Area where undocumented spills or releases apparently entered an exterior catch basin in the loading dock. PCE and the associated degradation products (TCE, DCEs, and vinyl chloride) are identified as the Contaminants of Concern (COCs) for the Site.

Overall, the fate and transport of these COCs are affected by their chemical properties and the physical, chemical, and biological processes that they are exposed to. PCE and associated breakdown products are generally polar compounds that have a lower affinity for bonding to soil particles. Chemicals with a strong affinity for soil are less mobile than chemicals with a lower affinity for soil. Additionally, PCE degrades (i.e., breaks down) to TCE, DCEs, vinyl chloride, and ethene based on subsurface conditions and bacterial

[8] The water level data obtained from well FL358-MW26 are not representative of the surrounding wells and, as a result, have been excluded from the range indicated. It is likely that the integrity of this well was compromised during its installation, potentially from thermal influences occurring during drilling activities.

[9] Groundwater velocity calculation is based on groundwater gradient, hydraulic conductivity, and effective porosity. The assumed effective porosity is 0.25 to 0.27 based on soil types. The average effective porosity values by soil type are based on Argonne National Laboratory Environmental Science Division website, U.S. Department of Energy. The site-specific hydraulic conductivity values from slug tests ranged from 0.10 to 4.06 ft/day. The average hydraulic conductivity value based on slug test data from wells FL358-MW5B, FL358-MW6, FL358-MW14 and FL358-MW20 is 0.60 ft/day. The average hydraulic conductivity in wells FL358-MW5A and FL358-MW20, where a gravel seam was observed, was 3.37 feet/day.

processes. Other factors that have influenced and will continue to influence the transport of COCs at the Site include the relative locations of the two contaminant sources, the extent and locations of remedial activities completed to date, the extent and locations of fill, removal and replacement of surface caps, and hydrogeologic parameters in the plume area.

Historically, PCE migrated vertically from the two points of release (source areas) through the soil column. Based on soil analytical results, vertical migration of PCE in the soil was limited by a glacial till aquitard located approximately between Elevations 395 and 400 feet (NAVD 1988). The shallow groundwater aquifer is perched on a glacial till aquitard. Dissolved-phase COCs within the shallow aquifer then migrated horizontally downgradient from the source areas, as well as laterally by dispersion and diffusion. PCE degraded to TCE, DCEs, vinyl chloride, and ethene because of natural dechlorination processes. Most of the contaminated source material in the vadose zone was removed by a combination of SVE operations in the 1990s and the 2020 remedial action that removed more than 4,000 tons of CVOC-contaminated soil above the groundwater table.

Currently most of the CVOC-impacted soil is paved. Paved surfaces including the rights-of-way (ROW), sidewalks, bus loop, and parking areas are preventing direct contact with these contaminants and are limiting the infiltration of stormwater into the ground. The migration of COCs in a groundwater plume is also limited by the sorption of these contaminants to fine-grained soils, as evidenced by the detected concentrations in saturated soil at the Site downgradient of the source areas themselves.

Additionally, chemical breakdown of CVOCs is evidenced by the presence of TCE, cis-DCE, trans-DCE, vinyl chloride and other geochemical parameters. Overall, groundwater monitoring completed as part of the RI indicates that the plume's leading edge is stable, likely due to dilution, sorption, and/or natural attenuation. Additionally, analytical results collected in the central portion of the plume also indicate that the magnitude of PCE concentrations has decreased since 1992; this finding is likely due to the removal of most of the source material in 1994 and 2020 and the ongoing natural attenuation of CVOCs in groundwater.

5.4 RECEPTORS AND EXPOSURE PATHWAYS

Current and future land use are both considered when evaluating potential receptors and exposure pathways. Based on evaluation of the exposure pathways listed below, humans are considered the only potential receptor for the Site.

- **Drinking Water.** Groundwater at the Site is not a current source of drinking water and the existing restrictive covenants prohibit potable groundwater use on the Site. Federal Way residents obtain domestic water from the public water supply system operated by the Lakehaven Water and Sewer District. One Group A Lakehaven Utility District well (public water) is located approximately 7,500 feet downgradient of the Site with the modeled 10-year capture zone located approximately 620 feet downgradient of the Site. The depth of this well is approximately 160 feet bgs and in a different aquifer than the impacted aquifer associated with the Y Pay Mor Site. Domestic water wells are located at least 1,300 feet from the Site (Figure 5, King County 2016), but it is unclear if the water rights are still active. Groundwater beneficial use cannot be ruled out as a potential exposure pathway given that Site groundwater could potentially be used as a future source of drinking water if there were no restrictions such as the Site restrictive covenants.

- **Indoor Air.** PCE, TCE and associated breakdown products in groundwater may volatize, migrate through the vadose zone. Ecology's Vapor Intrusion guidance indicates that buildings located more than 100 feet horizontally from a plume of subsurface volatile organic compound (VOC) contamination are unlikely to experience unacceptable vapor intrusion (VI) impacts (Ecology 2022). The enclosed space of the light rail station is not within the 100-foot buffer, as shown on Figure 15, however future TOD buildings may be within the 100-foot buffer. Therefore, indoor air vapor intrusion cannot be ruled out as a potential exposure pathway depending on the locations of future buildings at the Site.
- **Direct Contact.** Terrestrial receptors are not present based on the simplified terrestrial ecological evaluation (TEE) completed for the RI (see below). Construction workers are the primary human receptor and may potentially be exposed through direct contact with contaminated soil and groundwater during excavation activities below Elevation 428 feet (i.e., the approximate highest groundwater elevation at the Site). Excavation depths associated with future TOD development are not known.
- **Surface Water.** The nearest downgradient surface water body is located approximately 1.6 miles from the Site. Surface water is not considered a potential receptor.

5.5 TERRESTRIAL ECOLOGICAL EVALUATION

A Terrestrial Ecology Evaluation (TEE) was conducted consistent with Washington Administrative Code (WAC) 173-340-7490A. The purpose of the TEE is to evaluate whether hazardous substances detected in soil pose a threat to terrestrial receptors (e.g., plants, soil biota, and wildlife). The Site meets the criteria of Exclusion 1 and Exclusion 3, and further evaluation was not necessary[10]. See Appendix F for the completed TEE form and supporting documentation.

6.0 Contaminants of Concern and Preliminary Cleanup Levels (PCULs)

Preliminary Cleanup Levels (PCULs) were developed for the affected media to protect human health based on the Site CSM. Consistent with MTCA Chapter 173-340 WAC, PCULs were developed for the Site based on current and future uses at the Site, potential exposure pathways and potential receptors.

6.1 CHEMICALS OF CONCERN

COCs identified for the Site are PCE and detected PCE breakdown products (TCE, cis-DCE, trans-DCE, and vinyl chloride). DCE is not considered a COC because it was not detected.

[10] Exclusions 1 and 3 are based on Site contaminants and the depth of the soil and groundwater contamination (i.e., greater than 15 feet bgs), the lack of surface water and the absence of contiguous, undeveloped land larger than 1.5 acres on the Site or within 500 feet of the Site that could provide habitat for terrestrial wildlife, respectively.

6.2 PRELIMINARY CLEANUP LEVELS

PCULs were developed based on exposure pathways, standard MTCA Method A Cleanup Levels and standard Method B Screening Levels (SLs) from Ecology's "Cleanup Levels and Risk Calculations (CLARC) Master Spreadsheet.xlsx" table dated February 2025. The basis for the Site PCULs is as follows:

- **Soil PCUL.** The PCULs for soil are MTCA Method A ULU cleanup levels. If there is no Method A cleanup level for a particular COC, the PCUL is the lowest of the MTCA Method B cleanup levels based on protection of drinking water (saturated or vadose) and direct contact.
- **Groundwater PCUL.** The PCULs for groundwater are MTCA Method A cleanup levels. If there is no Method A cleanup level for a particular COC, the PCUL is the lowest of the MTCA Method B cleanup levels for protection of drinking water.
- **Indoor Air Cleanup Levels.** Indoor air PCULs are based on the MTCA Method B indoor air cleanup levels protective of human health for unrestricted land use and commercial use (WAC 173-340-750[3][b]).

The matrix below summarizes the Site PCULs:

COC	SOIL PCUL	GROUNDWATER PCUL	INDOOR AIR PCUL
PCE	Method A ULU	Method A	Method B
TCE	Method A ULU	Method A	Method B
DCEs	Method B Protective of Groundwater (saturated)	Method B	Method B
Vinyl Chloride	Method B Protective of Groundwater (saturated)	Method A	Method B

Additionally, groundwater screening levels were developed for screening purposes to evaluate whether contaminants detected in groundwater have the potential to migrate into enclosed spaces at concentrations exceeding indoor air PCULs. The groundwater screening levels are referenced to the standard MTCA Method B screening levels from Ecology's CLARC table dated February 2025. These screening levels were not incorporated as groundwater PCULs.

7.0 Nature and Extent

The nature and extent of contamination are evaluated based on the samples collected during various investigations to date that are representative of current conditions on the Site. The Site is characterized by 225 soil samples representing current conditions remaining in place following the conclusion of interim remedial actions. Groundwater conditions are represented by 208 groundwater samples collected from 27 monitoring wells between 2022 and 2025. Indoor air has not been evaluated. A preliminary discussion of potential COC migration from soil vapor to indoor air is summarized below.

The extent of the Site is delineated based on comparing the sample analytical data to the PCULs presented in Section 6.2. The estimated extents of soil and groundwater contamination that currently define the Site are presented in Figures 6 through 15 and summarized in Tables 4 and 5.

7.1 SOIL

PCE, TCE, cis-DCE and vinyl chloride contamination in soil are present at concentrations greater than the respective PCULs. The CVOC-contaminated soil is located within the shallow aquifer, approximately 20 to 37 feet below the current ground surface. The lateral extent of CVOC-contaminated soil is approximately 15,000 square feet.

The maximum CVOC concentrations were detected in the samples collected in the vicinity of the former catch basin within the Northern Source Area. This area is identified "CVOC-contaminated soil greater than 20 times the PCULs" in Figures 12 and 13. The maximum concentration of PCE was 150 mg/kg in a soil sample collected 26 feet below the current ground surface in boring FL358-MW5A. The estimated extent of CVOC-contaminated soil at concentrations greater than 20 times the PCUL is approximately 75 square feet and extends from 23 to 29 feet below the current ground surface. The area is capped with concrete.

Most of the CVOC-contaminated soil greater than the respective PCUL is present within the paved bus loop and sidewalk area and capped with concrete as shown on Figure 12. The western extent of CVOC-contaminated soil appears to be in one sample collected 36 feet below the current ground surface at a concentration slightly greater than the PCUL (boring 358-B15). The western portion of CVOC-contaminated soil area extends into the TOD site 4; this area remains uncapped until future development.

7.2 GROUNDWATER

PCE, TCE, cis-DCE and vinyl chloride-contaminated groundwater is present in the shallow aquifer at concentrations greater than the respective PCULs. Dechlorination of PCE is actively occurring based on the presence of its breakdown products and the geochemical results for groundwater samples. The deeper aquifer has not been impacted based on the soil chemical analytical results collected within the till confining located between the shallow and deeper aquifers. The estimated extent of CVOC-contaminated groundwater is shown on Figures 12 and 14.

The PCE-contaminated groundwater is limited to an area near the Northern Source Area. TCE and cis-DCE contaminated groundwater is primarily collocated with the PCE-contaminated groundwater plume. The estimated extent of the PCE-contaminated groundwater is 9,000 square feet. PCE was detected in groundwater at concentrations greater than the PCUL in 2024 and 2024 at concentrations ranging between 5.1 and 350 µg/L. However, the typical PCE concentrations were less than 170 µg/L. The maximum PCE concentration of 350 µg/L was detected in well FL358-MW5A during the June 2025 sampling event.

The vinyl chloride-contaminated groundwater is more widespread than the PCE-contaminated groundwater. The vinyl chloride plume includes the Northern Source Area, Southern Source Area, bus loop, and extends approximately 170 feet west into TOD sites 2 and 4. The estimated extent of the vinyl chloride groundwater plume is approximately 75,000 square feet. Vinyl chloride was detected in the groundwater at concentrations greater than the PCUL in 2024 and 2025 at concentrations ranging between 0.21 and 9.4 µg/L.

The greater concentrations of CVOC-contaminated soil and groundwater are within the bus loop and sidewalk area and were capped with pavement (concrete) between 2023 and 2025. Paved surfaces (ROW, sidewalks, bus loop, and/or parking areas) are preventing direct contact with these contaminants and are limiting the infiltration of stormwater. The migration of COCs in a groundwater plume is also limited by the sorption of these contaminants to fine-grained soils, as evidenced by the detected concentrations in saturated soil at the Site downgradient of the source areas themselves.

7.3 SOIL VAPOR AND VAPOR INTRUSION

PCE, TCE and/or vinyl chloride concentrations in groundwater exceeded the MTCA Method B screening level for vapor intrusion for residential use in samples collected between September 2024 and June 2025 from wells FL358-MW5A, FL358-MW6, FL358-MW7, FL358-MW9, FL358-MW10, FL358-MW11, FL358-MW13 and FL358-MW14, FL358-MW16, FL358-MW17, and FL358-MW20. Therefore, based on these groundwater sampling results, PCE, TCE and vinyl chloride potentially could migrate into enclosed spaces at concentrations exceeding Method B indoor air PCULs and/or S screening levels protective of commercial workers.

The nearest existing building is the newly constructed light rail station that includes one indoor security office that houses commercial workers and other rooms (bathrooms, entry hallway) for transient passenger use. Ecology's Vapor Intrusion guidance indicates that buildings located more than 100 feet horizontally from a plume of subsurface VOC contamination are unlikely to experience unacceptable VI impacts (Ecology 2022). The enclosed space of the light rail station is not within the 100-foot buffer, as shown on Figure 15. Therefore, indoor air vapor intrusion is not considered a complete exposure pathway for the light rail station building.

The boundaries of the TOD sites 2 and 4 are within the 100-foot buffer. The risk of potential indoor air vapor intrusion will be evaluated when the locations of future TOD building(s) are known.

8.0 Summary, Conclusions, and Recommendations

8.1 SUMMARY AND CONCLUSIONS

The Y Pay Mor Site is defined by the extent of PCE, TCE, cis-DCE and/or vinyl chloride exceeding PCULs for soil and/or groundwater. The sources of Site COCs are two historic PCE spills inside the Y Pay Mor Drycleaner space during the time the dry cleaner was in operation, and releases of PCE onto the ground near to, or into, the loading dock storm drain. Most of the contaminated source material in the vadose zone was removed by a combination of SVE operations in the 1990s and the 2020 remedial action involving excavation of more than 4,000 tons of CVOC-contaminated soil.

CVOC contamination remaining in soil is limited to the shallow aquifer. The deeper aquifer has not been impacted based on the soil chemical analytical results collected within the glacial till confining unit located between the shallow and deeper aquifers. The downgradient edge of the Site appears stable as a result of dilution, sorption, and/or natural attenuation processes; continued downgradient migration of the Y Pay Mor plume does not appear to be occurring.

New pavement (i.e., ROW, sidewalks, and/or parking areas) covering the majority of the CVOC-contaminated soil and PCE-contaminated groundwater will be beneficial for eliminating or reducing potential exposures because direct contact with CVOC contamination will be prevented and infiltration of precipitation and stormwater will be limited. Additional pavement and building coverage are planned within the TOD sites in the future. The existing restrictive covenants provide additional protections under current conditions because Ecology approval is required prior to any actions that may cause a release or exposure of CVOCs to the environment.

Impacts to drinking water from the Site are not anticipated based on the distance between the Site and groundwater supply wells. Groundwater at the Site is not a current source of drinking water and the existing restrictive covenants prohibit potable groundwater use on the Site. The boundary of the 10-year wellhead protection zone for the Lakehaven Group A public water supply well is situated approximately 620 feet away from, and downgradient of, the anticipated edge of the Site. Additionally, the Lakehaven public water supply well screen is not completed in the same shallow aquifer as the Site. While the exact locations of identified domestic Group D wells are not known, one well could be located as close as 1,300 feet downgradient of the anticipated extent of the Site as depicted on the King County Groundwater Resources map. However, the water rights for these Group D wells may not be active based on the Ecology Water Rights Search.

Vapor intrusion is not a risk for indoor air in the new station building based on the distance between the groundwater plume and the station building. Potential soil vapor intrusion to indoor air in future TOD buildings will be evaluated once future building locations are known.

8.2 RECOMMENDATIONS

The nature and extent of contamination in media of concern for the Y Pay Mor have been characterized in accordance with the RI Work Plan and subsequent addenda using screening levels and exposure pathways to protect human health and the environment based on current and future land use. There is sufficient data to prepare the Feasibility Study (FS) and to identify and evaluate cleanup alternatives for contaminants in media of concern based on the results of the RI. The FS will identify and evaluate applicable remedial technologies and alternatives for addressing Site contaminants.

9.0 Limitations

This report has been prepared for the exclusive use of Sound Transit, their authorized agents. This report may be provided to regulatory agencies for their review in their evaluation of the Y Pay Mor Site. No other party may rely on the product of our services unless we agree in advance and in writing to such reliance.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

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Tables

Table 1

Soil Boring Information

Y Pay Mor Site Updated RI Addendum No. 1

Federal Way, Washington

Location Identification[1]	Ecology Well ID	Date Drilled or Installed	Type	Exploratory Method	Ground Surface Elevation at Time of Drilling[2] (feet)	Top of Casing Elevation (feet)[2]	Total Depth of Boring at Time of Drilling (feet bgs)	Screened Interval Depth at Time of Drilling (feet bgs)	Average Hydraulic Conductivity[3] (feet/day)
Preliminary Remedial Investigation and Interim Action (RZA AGRA 1994)									
BW-1	--	06/10/1992	Boring	HSA	426.37	--	20	--	--
BW-2/MW-1 and B1/VP-6[4, 5]	--	6/10/1992 & 8/28/1992	Groundwater Well/ SVE Well Point	HSA	426.37	--	20	10 - 20 and 0 - 7.5	--
BW-3	--	06/10/1992	Boring	HSA	426.37	--	15	--	--
BW-4	--	06/10/1992	Boring	HSA	426.37	--	15	--	--
B5/MW-2 (Y Pay Mor-MW2)	--	08/25/1992	Groundwater Well	HSA	428	--	20	9 - 19	--
B6/VP-1[4]	--	08/26/1992	SVE Well Point	HSA	426.37	--	7.5	0 - 7.5	--
B7/VP-2[4]	--	08/26/1992	SVE Well Point	HSA	426.37	--	7.5	0 - 7.5	--
B8/VP-3[4]	--	08/27/1992	SVE Well Point	HSA	426.37	--	7.5	0 - 7.5	--
B9/VP-4[4]	--	08/27/1992	SVE Well Point	HSA	426.37	--	8	0 - 7.5	--
B10/VP-5[4]	--	08/28/1992	SVE Well Point	HSA	426.37	--	7.5	0 - 7.5	--
B11/MW-3 (Y Pay Mor-MW3)	--	10/27/1992	Groundwater Well	HSA	424.8	--	15	7 - 14	--
B-12	--	10/27/1992	Boring/Temporary Well	HSA	426.37	--	16.5	--	--
VP-7	--	Unknown	SVE Well Point	Unknown	426.37	--	10	3 - 10	--
CB-1[6]	--	11/16/1994	Boring	HSA	426.37	--	8	--	--
CB-2[6]	--	11/16/1994	Boring	HSA	426.37	--	6.5	--	--
CB-3[6]	--	11/16/1994	Boring	HSA	426.37	--	6.5	--	--
CB-4[6]	--	11/16/1994	Boring	HSA	426.37	--	6.5	--	--
CB-5[6]	--	11/16/1994	Boring	HSA	426.37	--	8	--	--
CB-6[6]	--	11/16/1994	Boring	HSA	426.37	--	6.5	--	--
CB-7[6]	--	11/16/1994	Boring	HSA	426.37	--	6.5	--	--
Phase II ESA (GeoEngineers 2017)									
FL358-B1	--	10/05/2017	Boring	Direct-Push	423.5	--	20	--	--
FL358-B3	--	10/05/2017	Boring	Direct-Push	425.6	--	20	--	--
FL358-MW1	--	10/02/2017	Groundwater Well	Sonic	425.59	425.18	26	6 - 25	--
FL358-MW2	--	10/02/2017	Groundwater Well	Sonic	425.37	424.99	25	6 - 24	--
FL358-MW3	--	10/03/2017	Groundwater Well	Sonic	425.55	425.13	20	8 - 19.5	--
FL358-MW4	--	10/03/2017	Groundwater Well	Sonic	424.34	423.92	20	8 - 19.5	
Supplemental Investigation (OSG 2020 and 2021)									
358-B1	--	05/07/2020	Boring	HSA	425.37	--	25.5	--	--
358-B2	--	05/07/2020	Boring	HSA	426.95	--	25.5	--	--
358-B3	--	05/07/2020	Boring/Temporary Well	HSA	423	--	25.5	15 - 20	--
358-B4	--	05/08/2020	Boring/Temporary Well	HSA	427	--	25.5	20 - 25	--
358-B5	--	05/08/2020	Boring/Temporary Well	HSA	426.37	--	25.5	15 - 25	--
358-B6	--	05/08/2020	Boring/Temporary Well	HSA	426.37	--	25.5	15 - 25	--
358-B7	--	05/11/2020	Boring/Temporary Well	HSA	426.37	--	25.5	15 - 25	--
358-B8	--	05/11/2020	Boring	HSA	426.02	--	25.5	--	--
358-B9	--	05/11/2020	Boring	HSA	426.15	--	25.5	--	--
358-B10	--	06/09/2020	Boring	HSA	425.62	--	50	--	--
358-B11	--	06/12/2020	Boring/Temporary Well	HSA	425.06	424.93	26.5	15 - 25	--
358-B12	--	06/10/2020	Boring	HSA	425.74	--	35.6	--	--
358-B13	--	06/11/2020	Boring/Temporary Well	HSA	425.51	425.51	26.5	15 - 25	--
358-B14	--	06/11/2020	Boring/Temporary Well	HSA	426.47	426.99	31	15 - 25	--
358-B15	--	06/11/2020	Boring/Temporary Well	HSA	425.61	426.04	26.5	15 - 25	--
358-PH1	--	06/09/2020	Test Pit	--	426	--	~10	--	--
358-PH2	--	06/10/2020	Test Pit	--	426	--	~10	--	--
358-PH3	--	06/09/2020	Test Pit	--	426	--	~10	--	--
358-PH4	--	06/09/2020	Test Pit	--	426	--	~10	--	--
358-PH5	--	06/10/2020	Test Pit	--	426	--	~10	--	--
358-PH6	--	06/10/2020	Test Pit	--	426	--	~10	--	--
358-PH7	--	06/10/2020	Test Pit	--	422	--	~15	--	--
358-PH8	--	06/10/2020	Test Pit	--	426	--	~5	--	--
Additional Investigation (Shannon & Wilson 2022)									
FL358-MW5A	BNL 567	06/22/2022	Groundwater Well	Sonic	435.50	435.70/436.26	27	21 - 26	4.06
FL358-MW5B	BNL 568	06/21/2022	Groundwater Well	Sonic	435.50	435.66/436.51	40	32 - 37	1.67
FL358-MW6	BNL 566	06/21/2022	Groundwater Well	Sonic	435.73	435.64/436.12	40	17 - 37	0.51
FL358-MW7	BNL 564	06/20/2022	Groundwater Well	Sonic	433.61	433.50/433.74	35	14 - 34	--
FL358-MW8	BNL 562	06/15/2022	Groundwater Well	Sonic	435.67	435.87/436.98	40	18 - 38	--
FL358-MW9	BNL 563	06/16/2022	Groundwater Well	Sonic	435.41	435.50/435.42	45	21 - 41	--
FL358-MW10	BNL 558	06/13/2022	Groundwater Well	Sonic	433.91	433.97/433.71	40	18 - 38	--
FL358-MW11	BNL 559	06/14/2022	Groundwater Well	Sonic	432.94	432.78/434.92	35	15 - 35	--
FL358-MW12	BNL 565	06/20/2022	Groundwater Well	Sonic	435.24	435.11/435.39	40	18 - 38	--
FL358-MW13	BNL 560	06/14/2022	Groundwater Well	Sonic	435.53	435.68/435.80	42.5	21 - 41	--
FL358-MW14	BNL 561	06/15/2022	Groundwater Well	Sonic	434.44	434.32/434.80	40	19 - 39	0.13

Location Identification[1]	Ecology Well ID	Date Drilled or Installed	Type	Exploratory Method	Ground Surface Elevation at Time of Drilling[2] (feet)	Top of Casing Elevation (feet)[2]	Total Depth of Boring at Time of Drilling (feet bgs)	Screened Interval Depth at Time of Drilling (feet bgs)	Average Hydraulic Conductivity[3] (feet/day)
Supplemental Investigation (GeoEngineers, September 2024 to February 2025)									
FL358-MW15	BQB 817	09/12/2024	Groundwater Well	HSA	435.98	439.00	41.5	18 - 38	--
FL358-MW16	BQB 814	09/10/2024	Groundwater Well	HSA	435.73	438.76	46.5	25 - 45	0.10
FL358-MW17	BQB 819	09/13/2024	Groundwater Well	HSA	434.70	437.43	41.5	20 - 40	--
FL358-MW18	BQB 818	09/12/2024	Groundwater Well	HSA	431.08	433.56	46.5	22 - 42	--
FL358-MW19	BQB 815	09/11/2024	Groundwater Well	HSA	433.30	433.01	44	22 - 42	--
FL358-MW20	BQB 821	09/16/2024	Groundwater Well	HSA	434.54	437.44	41.5	18 - 38	2.67
FL358-MW21	BQB 820	09/13/2024	Groundwater Well	HSA	430.98	433.84	46.5	25 - 45	--
FL358-MW22	BQB 816	09/12/2024	Groundwater Well	HSA	430.07	429.87	41.5	20 - 40	--
FL358-MW23	BQM 305	12/19/2024	Groundwater Well	Sonic	434.87	438.00	35	12 - 32	--
FL358-MW24	BQM 304	12/19/2024	Groundwater Well	Sonic	431.72	430.72	35	12 - 32	--
FL358-MW25	BQM 303	12/18/2024	Groundwater Well	Sonic	431.31	434.35	40	16 - 36	--
FL358-MW26	BQM 301	12/17/2024	Groundwater Well	Sonic	434.19	437.35	40	18 - 38	--
FL358-MW27	BQM 302	12/17/2024	Groundwater Well	Sonic	432.04	435.04	35	20 - 30	--
FL358-MW28	BQM 430	02/26/2025	Groundwater Well	Sonic	423.81	427.10	36.5	9 - 29	--
FL358-MW29	BQM 431	02/24/2025	Groundwater Well	Sonic	427.87	431.04	31.5	9 - 29	--
FL358-MW30	BQM 432	02/25/2025	Groundwater Well	Sonic	421.40	424.55	36.5	9 - 29	--

Notes:

[1] Approximate monitoring well locations are shown on Figure 2.

[2] Elevation measurements are relative to NAVD88 datum and reflect the conditions at boring completion. Significant figures presented are a function of the precision as reported by surveyors. Monitoring wells FL358-MW5A through FL358-MW14 were modified during site redevelopment. The top of casing elevations reflect the conditions before and after modification in December 2024.

[3] Hydraulic conductivity values were estimated based on Bouwer and Rice 1976 method of slug testing.

[4] Locations were identified as borings, completed with well screens within the vadose zone and connected to the soil vapor extraction system.

[5] Monitoring well MW-1 was abandoned to 8 feet on 8/28/1992 due to separation at the well screen/PVC interface. B1, VP-2 (a vapor point) was installed in former boring based on the 1992 Preliminary RI (RZA Agra Inc). Groundwater samples were not collected from MW-1.

[6] Locations were identified as Confirmation Boring B-# in the 1994 report. The location identification was modified to CB-# distinguish between the 1992 borings and the 1994 borings.

bgs = below ground surface

NAVD88 = North American Vertical Datum of 1988

SVE = soil vapor extraction

HSA = hollow stem auger

Table 2

Groundwater Elevations

Y Pay Mor Site Updated RI Addendum No. 1

Federal Way, Washington

Monitoring Well[1]	Date Measured	Screened Interval (feet bgs)	Top of Well Casing Elevation[2]	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet)
FL358-MW5A	06/27/2022	21 - 26	435.70	10.14	425.56
	07/20/2022			11.25	424.45
	10/19/2022			13.69	422.01
	11/28/2022			11.95	423.75
	03/14/2023			10.30	425.40
	06/07/2023			12.46	423.24
	09/12/2023			15.33	420.37
	12/08/2023			8.74	426.96
	03/21/2024			9.72	425.98
	06/19/2024			11.79	423.91
	09/20/2024			14.05	421.65
	12/30/2024		436.26	11.53	424.73
	03/07/2025			12.19	424.07
	06/11/2025			13.74	422.52
FL358-MW5B	06/27/2022	32 - 37	435.66	9.34	426.32
	07/20/2022			10.42	425.24
	10/19/2022			12.60	423.06
	11/28/2022			10.77	424.89
	03/14/2023			9.36	426.30
	06/07/2023			11.37	424.29
	09/12/2023			14.52	421.14
	12/08/2023			7.84	427.82
	03/21/2024			9.19	426.47
	06/19/2024			10.90	424.76
	09/20/2024			12.83	422.83
	12/30/2024		436.51	10.18	426.33
	03/07/2025			10.97	425.54
	06/11/2025			12.77	423.74
FL358-MW6	06/27/2022	17 - 37	435.64	11.59	424.05
	07/20/2022			12.70	422.94
	10/19/2022			15.25	420.39
	11/28/2022			13.72	421.92
	03/14/2023			11.63	424.01
	06/07/2023			13.51	422.13
	09/12/2023			16.17	419.47
	12/08/2023			10.12	425.52
	03/21/2024			10.39	425.25
	06/19/2024			12.52	423.12
	09/20/2024			14.84	420.80
	12/30/2024		436.12	12.44	423.68
	03/07/2025			13.01	423.11
	06/11/2025			14.33	421.79
FL358-MW7	06/27/2022	14 - 34	433.50	11.75	421.75
	10/19/2022			15.34	418.16
	11/28/2022			14.09	419.41
	03/14/2023			11.60	421.90
	06/07/2023			13.84	419.66
	09/12/2023			16.13	417.37
	12/08/2023			9.98	423.52
	03/21/2024			10.03	423.47
	06/19/2024			12.53	420.97
	09/20/2024			14.82	418.68
	12/30/2024		433.74	12.93	420.81
	03/07/2025			13.44	420.30
	06/11/2025			14.23	419.51
FL358-MW8	06/27/2022	18 - 38	435.87	9.68	426.19
	10/19/2022			12.99	422.88
	11/28/2022			11.17	424.70
	03/14/2023			9.70	426.17
	06/07/2023			12.05	423.82
	09/12/2023			14.71	421.16
	12/08/2023			7.42	428.45
	03/21/2024			9.40	426.47
	06/19/2024			11.15	424.72
	09/20/2024			13.54	422.33
	12/30/2024		436.98	10.88	426.10
	03/07/2025			11.65	425.33
	06/11/2025			13.37	423.61

Monitoring Well[1]	Date Measured	Screened Interval (feet bgs)	Top of Well Casing Elevation[2]	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet)
FL358-MW9	06/27/2022	21 - 41	435.50	12.52	422.98
	10/19/2022			15.68	419.82
	11/28/2022			14.14	421.36
	03/14/2023			12.05	423.45
	06/07/2023			14.15	421.35
	09/12/2023			16.24	419.26
	12/08/2023			9.70	425.80
	03/21/2024			10.53	424.97
	06/19/2024			12.81	422.69
	09/20/2024			14.59	420.91
	12/30/2024		435.42	12.00	423.42
	03/07/2025			12.81	422.61
	06/11/2025			13.91	421.51
FL358-MW10	06/27/2022	18 - 38	433.97	11.97	422.00
	10/19/2022			15.31	418.66
	11/28/2022			14.02	419.95
	03/14/2023			11.86	422.11
	06/07/2023			14.14	419.83
	09/12/2023			16.85	417.12
	12/08/2023			9.12	424.85
	03/21/2024			10.12	423.85
	06/19/2024			12.60	421.37
	09/20/2024			14.49	419.48
	12/30/2024		433.71	12.05	421.66
	03/07/2025			12.91	420.80
	06/11/2025			13.77	419.94
FL358-MW11	06/27/2022	15 - 35	432.78	11.89	420.89
	10/19/2022			15.25	417.53
	11/28/2022			14.07	418.71
	03/14/2023			11.68	421.10
	06/07/2023			13.96	418.82
	09/12/2023			15.99	416.79
	12/08/2023			9.98	422.80
	03/21/2024			10.12	422.66
	06/19/2024			12.54	420.24
	09/20/2024			14.92	417.86
	12/30/2024		434.92	–[3]	–[3]
	03/07/2025			15.16	419.76
	06/11/2025			16.59	418.33
FL358-MW12	06/27/2022	18 - 38	435.11	12.21	422.90
	10/19/2022			16.04	419.07
	11/28/2022			13.08	422.03
	03/14/2023			12.51	422.60
	06/07/2023			14.49	420.62
	09/12/2023			17.17	417.94
	12/08/2023			11.25	423.86
	03/21/2024			11.12	423.99
	06/19/2024			13.46	421.65
	09/20/2024			15.58	419.53
	12/30/2024		435.39	13.63	421.76
	03/07/2025			13.99	421.40
	06/11/2025			16.01	419.38
FL358-MW13	06/27/2022	21 - 41	435.68	13.40	422.28
	10/19/2022			16.62	419.06
	11/28/2022			15.17	420.51
	03/14/2023			14.85	420.83
	06/07/2023			15.68	420.00
	09/12/2023			17.95	417.73
	12/08/2023			13.22	422.46
	03/21/2024			12.62	423.06
	06/19/2024			14.55	421.13
	09/20/2024			16.10	419.58
	12/30/2024		435.80	13.95	421.85
	03/07/2025			14.54	421.26
	06/11/2025			15.85	419.95
FL358-MW14	06/27/2022	19 - 39	434.32	12.05	422.27
	07/20/2022			13.22	421.10
	10/19/2022			15.59	418.73
	11/28/2022			14.43	419.89
	03/14/2023			12.81	421.51
	06/07/2023			14.34	419.98
	09/12/2023			16.20	418.12
	12/08/2023			10.24	424.08
	03/21/2024			10.32	424.00
	06/19/2024			12.85	421.47
	09/20/2024			15.40	418.92
	12/30/2024		434.80	13.35	421.45
	03/07/2025			13.95	420.85
	06/11/2025			14.85	419.95

Monitoring Well[1]	Date Measured	Screened Interval (feet bgs)	Top of Well Casing Elevation[2]	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet)
FL358-MW15	09/20/2024	18 - 38	439.00	18.85	420.15
	12/30/2024			16.98	422.02
	03/07/2025			17.30	421.70
	06/11/2025			18.48	420.52
FL358-MW16	09/20/2024	25 - 45	438.76	24.98	413.78
	12/30/2024			23.02	415.74
	03/07/2025			22.02	416.74
	06/11/2025			23.63	415.13
FL358-MW17	09/20/2024	20 - 40	437.43	21.57	415.86
	12/30/2024			19.87	417.56
	03/07/2025			20.53	416.90
	06/11/2025			21.21	416.22
FL358-MW18	09/20/2024	22 - 42	433.56	21.63	411.93
FL358-MW19	09/20/2024	22 - 42	433.01	18.95	414.06
	12/30/2024			13.48	419.53
	03/07/2025			14.27	418.74
	06/11/2025			14.83	418.18
FL358-MW20	09/20/2024	18 - 38	437.44	27.34	410.10
	12/30/2024			22.60	414.84
	03/07/2025			25.04	412.40
	06/11/2025			25.03	412.41
FL358-MW21	09/20/2024	25 - 45	433.84	24.58	409.26
	12/30/2024			25.65	408.19
	03/07/2025			23.49	410.35
	06/11/2025			24.44	409.40
FL358-MW22	09/20/2024	20 - 40	429.87	17.46	412.41
	12/30/2024			16.66	413.21
	03/07/2025			19.76	410.11
	06/11/2025			19.51	410.36
FL358-MW23	12/30/2024	12 - 32	438.00	14.11	423.89
	03/07/2025			14.80	423.20
	06/11/2025			15.35	422.65
FL358-MW24	12/30/2024	12 - 32	430.72	7.22	423.50
	03/07/2025			7.55	423.17
	06/11/2025			8.63	422.09
FL358-MW25	12/30/2024	16 - 36	434.35	20.55	413.80
	03/07/2025			21.04	413.31
	06/11/2025			21.71	412.64
FL358-MW26	12/30/2024	18 - 38	437.35	32.53	404.82
	03/07/2025			33.50	403.85
	06/11/2025			33.56	403.79
FL358-MW27	12/30/2024	20 - 30	435.04	23.03	412.01
	03/07/2025			23.20	411.84
	06/11/2025			25.67	409.37
FL358-MW28	03/07/2025	9 - 29	427.10	15.68	411.42
	06/11/2025			16.99	410.11
FL358-MW29	03/07/2025	9 - 29	431.04	20.38	410.66
	06/11/2025			21.76	409.28
FL358-MW30	03/07/2025	9 - 29	424.55	16.66	407.89
	06/11/2025			17.25	407.30

Notes:

[1] Approximate monitoring well locations are shown on Figures 2 and 6 through 11.

[2] Elevations relative to NAVD88. Top of casing elevations were surveyed by Kiewit in June 2022 and August 2025, and True North Land Surveying in September and December 2024 and March 2025. Monitoring wells FL358-MW5A through FL358-MW14 were modified during site redevelopment. The top of casing elevations reflect the conditions before and after modification in December 2024.

[3] Monitoring well FL358-MW11 was damaged prior to the December 2024 sampling event and was not measured.

bgs = below ground surface

NAVD88 = North American Vertical Datum of 1988

TOC = top of casing

Table 3

2024-2025 Soil Samples Chemical Analytical Data

Y Pay Mor Site Updated RI Addendum No. 1

Federal Way, Washington

Location ID[1]	Sample ID	Sample Date	Approximate Sample Depth Below Ground Surface at Time of Drilling (feet)	VOCs[2] (mg/kg)					
				PCE Breakdown Products					
				Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Soil Preliminary Cleanup Levels[3] (mg/kg)				**0.05**	**0.03**	**0.0052**	**0.032**	**0.0025**	**0.001**
Additional Investigation (GeoEngineers, September 2024)									
FL358-MW15	FL358-MW15_27.5-29	09/12/2024	27.5	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U
	FL358-MW15_30-31.5		30	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U
	FL358-MW15_35-36.5		35	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U
	FL358-MW15_40-41.5		40	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
FL358-MW17	FL358-MW17_27.5-28	09/10/2024	27.5	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U
	FL358-MW17_32.5-34		32.5	0.0010 U	0.0010 U	**0.0011**	0.0010 U	0.0010 U	0.0010 U
	FL358-MW17_35-36		35	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U
	FL358-MW17_40-41.5		40	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U
FL358-MW18	FL358-MW18_20-21.5	09/12/2024	20	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U
	FL358-MW18_25-26.5		25	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U
	FL358-MW18_27.5-29		27.5	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U
	FL358-MW18_30-31.5		30	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U
	FL358-MW18_42.5-44		42.5	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
Additional Investigation (GeoEngineers, December 2024)									
FL358-MW23	FL358-MW23_24-25	12/19/2024	24	0.00095 UJ	0.00095 UJ	0.00095 UJ	0.00095 UJ	0.00095 UJ	0.00095 UJ
	FL358-MW23_29-30		29	0.00096 UJ	0.00096 UJ	0.00096 UJ	0.00096 UJ	0.00096 UJ	0.00096 UJ
	FL358-MW23_33-34		33	0.00093 UJ	0.00093 UJ	0.00093 UJ	0.00093 UJ	0.00093 UJ	0.00093 UJ
FL358-MW24	FL358-MW24_23-24	12/19/2024	23	0.00081 UJ	0.00081 UJ	0.00081 UJ	0.00081 UJ	0.00081 UJ	0.00081 UJ
	FL358-MW24_29.5-30		29.5	0.00087 UJ	0.00087 UJ	0.00087 UJ	0.00087 UJ	0.00087 UJ	0.00087 UJ
	FL358-MW24_34-35		34	0.0016 UJ	0.0016 UJ	0.0016 UJ	0.0016 UJ	0.0016 UJ	0.0016 UJ
FL358-MW25	FL358-MW25_24-25	12/18/2024	24	0.00044 U	0.00044 U	0.00044 U	0.00044 U	0.00044 U	0.00044 U
	FL358-MW25_34-35		34	0.00054 U	0.00054 U	0.00054 U	0.00054 U	0.00054 U	0.00054 U
	FL358-MW25_37-37.5		37	0.00060 U	0.00060 U	0.00060 U	0.00060 U	0.00060 U	0.00060 U
FL358-MW26	FL358-MW26_24-25	12/17/2024	24	0.00056 U	0.00056 U	0.00056 U	0.00056 U	0.00056 U	0.00056 U
	FL358-MW26_37-37.5		37	0.00056 U	0.00056 U	0.00056 U	0.00056 U	0.00056 U	0.00056 U
	FL358-MW26_39-40		39	0.00052 U	0.00052 U	0.00052 U	0.00052 U	0.00052 U	0.00052 U
FL358-MW27	FL358-MW27_24-25	12/17/2024	24	0.00053 U	0.00053 U	0.00053 U	0.00053 U	0.00053 U	0.00053 U
	FL358-MW27_27-27.5		27	0.00059 U	0.00059 U	0.00059 U	0.00059 U	0.00059 U	0.00059 U
	FL358-MW27_32-32.5		32	0.00052 U	0.00052 U	0.00052 U	0.00052 U	0.00052 U	0.00052 U
Additional Investigation (GeoEngineers, February 2025)									
FL358-MW28	FL358-MW28_25-26	02/25/2025	25	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U
	FL358-MW28_29-30		29	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U
FL358-MW29	FL358-MW29_10-11	02/24/2025	10	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	FL358-MW29_15-16		15	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	FL358-MW29_20-21		20	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U
	FL358-MW29_25-26		25	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U
	FL358-MW29_29-30		29	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U
FL358-MW30	FL358-MW30_20-21	02/25/2025	20	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U
	FL358-MW30_DUP		20	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	FL358-MW30_29-30		29	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U

Notes:

[1] Approximate monitoring well locations are shown on Figures 2 and 6 through 11.

[2] Volatile organic compounds (VOCs) analyzed by United States Environmental Protection Agency (EPA) Method 8260.

[3] MTCA Method A Cleanup Levels and standard Method B Screening Levels (SLs) from Ecology's "Cleanup Levels and Risk Calculations (CLARC) Master Spreadsheet.xlsx" table dated February 2025. See Section 6.0 f

bgs = below ground surface

mg/kg = milligrams per kilogram

NAVD88 = North American Vertical Datum of 1988

PCE = tetrachloroethene

TCE = trichloroethene

U = Analyte was not detected above the Practical Quantitation Limit (PQL)

UJ = Analyte was not detected above the PQL; the PQLs are qualified as estimates because the holding time for this analysis was exceeded

Bold indicates analyte was detected above the Practical Quantitation Limit (PQL).

Table 4

Groundwater Parameters and Chemical Analytical Data

Y Pay Mor Site Updated RI Addendum No. 1

Federal Way, Washington

Location ID[1]	Well Type	Sample ID	Sample Date	VOCs[2] (µg/L)						Dissolved Gases[3] (µg/L)				Conventionals[4] (mg/L)											Groundwater Parameters[5]			
				Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Ethane	Ethene	Methane	Acetylene	Total Organic Carbon	Ammonia	Nitrate	Nitrite	Sulfate	Chloride Ion	Biological Oxygen Demand	Total Iron	Ferrous Iron	Ferrous Iron[6] (Field Test Kit)	DHC[7] (cells/mL)	ORP (mV)	pH	DO (mg/L)	Temperature (°C)
Groundwater Preliminary Cleanup Level (µg/L)				5	5	16	100	7	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Commercial Use[8] (µg/L)				120	12	1,600	650	1,100	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Residential Use[8] (µg/L)				25	1.4	180	77	130	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conditions Indicative of Reductive Dechlorination Occuring[9]				N/A	Detected	>80% of total DCEs	Detected	Detected	Detected	N/A	>10	>500	Detected	>20 mg/L	Detected and Increasing	<1.0 mg/L	Detected and Increasing	< 20 mg/L	>2x background (31 mg/L)[10]	Detected	>1.0 mg/L	>1.0 mg/L	>1.0 mg/L	>1,000 (likely) >10 and <1,000 (possible)	<-50 mV (possible) <-100 mV (likely)	5 < pH < 9	<0.5 mg/L (anaerobic) >0.5 mg/L (aerobic)	>20 C° = faster dechlor-ination
Pre 2020 Remedial Excavation Groundwater Chemical Analytical Results (1992 to 2020)																												
B-12	Temp	B12_H20	10/28/1992	**>780 E**	**4 J**	**29**	5 U	5 U	*10 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		B12_H20DL	10/28/1992	**1,200**	*250 U*	*250 U*	*250 U*	*250 U*	*500 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Water, B12[11]	10/28/1992	**1,700**	*200 U*	*200 U*	*200 U*	*200 U*	*200 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Y Pay Mor-MW2	Permanent	MW-2	09/23/1992	5 U	5 U	5 U	5 U	5 U	*10 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Water, MW-2[11]	09/23/1992	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	*2.0 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Water, MW-2[11]	06/13/1994	5.0 U	2.0 U	5.0 U	2.0 U	2.0 U	*2.0 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		MW2	11/17/1994	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	*1.0 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Y Pay Mor-MW3	Permanent	MW-3	10/28/1992	**1 J**	**2 J**	**7**	5 U	5 U	*10 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		MW-3	11/13/1992	**2 J**	**3 J**	**9**	5 U	5 U	*10 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Water, MW-3[11]	11/13/1992	2.0 U	**2.3**	**6.6**	2.0 U	2.0 U	*2.0 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Water, MW-3[11]	06/13/1994	5.0 U	2.0 U	**5.4**	2.0 U	2.0 U	*2.0 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		MW3	11/17/1994	1.0 U	1.0 U	**2.2**	1.0 U	1.0 U	*1.0 U*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		MW-3[12]	02/10/1997	ND	ND	**1.82**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		MW-3[12]	07/23/1997	ND	ND	**3.63**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		YPAYMOR MW3-20171003	10/03/2017	0.20 U	0.20 U	**0.20**	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		YPM4-MW3-20200429	04/29/2020	1 U	0.5 U	1 U	1 U	1 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
358-B3	Temp	358-B3-GW	05/08/2020	**5.71**	**2.08**	**6.41**	1 U	1 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
358-B4	Temp	358-B4-GW	05/08/2020	1 U	0.5 U	1 U	1 U	1 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
358-B5	Temp	358-B5-GW	05/08/2020	**136**	**69.9**	**68.3**	1 U	1 U	**2.2**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
358-B6	Temp	358-B6-GW	05/11/2020	**6.08**	**6.24**	**17.8**	1 U	1 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
358-B7	Temp	358-B7-GW	05/11/2020	1 U	**2.99**	**33.6**	1 U	1 U	**18.8**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
358-B11	Temp	358-B11-GW	06/12/2020	1 U	0.5 U	**3.37**	1 U	1 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
358-B13	Temp	358-B13-GW	06/12/2020	1 U	0.5 U	1 U	1 U	1 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
358-B14	Temp	358-B14-GW	06/12/2020	1 U	0.5 U	1 U	1 U	1 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
358-B15	Temp	358-B15-GW	06/12/2020	1 U	**1.89**	**9.95**	1 U	1 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FL358-MW1	Permanent	FL358-MW1-20171006	10/06/2017	**0.21**	**1.0**	**0.61**	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		FL358-MW1-20200429	04/29/2020	1 U	0.5 U	1 U	1 U	1 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FL358-MW2	Permanent	FL358-MW2-20171006	10/06/2017	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		FL358-MW2-20200429	04/29/2020	1 U	0.50 U	1 U	1 U	1 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FL358-MW3	Permanent	DUP-20171009	10/09/2017	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		FL358-MW3-20171009	10/09/2017	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		FL358-MW3-20200429	04/29/2020	1 U	0.500 U	1 U	1 U	1 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FL358-MW4	Permanent	FL358-MW4-20171006	10/06/2017	0.20 U	0.20 U	**0.34**	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		FL358-MW4-20200429	04/29/2020	1 U	0.500 U	1 U	1 U	1 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Location ID[1]	Well Type	Sample ID	Sample Date	VOCs[2] (µg/L)						Dissolved Gases[3] (µg/L)				Conventionals[4] (mg/L)										DHC[7] (cells/mL)	Groundwater Parameters[5]			
				Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Ethane	Ethene	Methane	Acetylene	Total Organic Carbon	Ammonia	Nitrate	Nitrite	Sulfate	Chloride Ion	Biological Oxygen Demand	Total Iron	Ferrous Iron	Ferrous Iron[6] (Field Test Kit)		ORP (mV)	pH	DO (mg/L)	Temperature (°C)
Groundwater Preliminary Cleanup Level (µg/L)				5	5	16	100	7	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Commercial Use[8] (µg/L)				120	12	1,600	650	1,100	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Residential Use[8] (µg/L)				25	1.4	180	77	130	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conditions Indicative of Reductive Dechlorination Occuring[9]				N/A	Detected	>80% of total DCEs	Detected	Detected	Detected	N/A	>10	>500	Detected	>20 mg/L	Detected and Increasing	<1.0 mg/L	Detected and Increasing	< 20 mg/L	>2x background (31 mg/L)[10]	Detected	>1.0 mg/L	>1.0 mg/L	>1.0 mg/L	>1,000 (likely) >10 and <1,000 (possible)	<-50 mV (possible) <-100 mV (likely)	5 < pH < 9	<0.5 mg/L (anaerobic) >0.5 mg/L (aerobic)	>20 C°= faster dechlor-ination
Post 2020 Remedial Excavation Groundwater Chemical Analytical Results (2022 to 2025)																												
FL358-MW5A	Permanent	FL358-MW5A-220630	06/30/2022	**91**	**50**	**37**	1.0 U	1.0 U	**2.3**	0.22 U	**0.79**	**–**	**9.5**	**8.2**	**0.10**	0.050 U	0.020 U	--	--	--	**0.56**	--	--	--	-19.2	7.43	0.20	13.80
		FL358-MW5A-082522	08/25/2022	**24**	**27**	**60**	**0.50**	0.40 U	**2.0**	0.22 U	0.29 U	**1400**	1.2 U	**7.7**	**0.090**	**0.056**	0.020 U	--	--	--	**1.3**	--	--	--	15.3	6.12	0.06	15.51
		FL358-MW5A-113022	11/30/2022	**21**	**28**	**55**	**0.49**	0.40 U	**4.0**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.1	6.77	0.12	14.48
		FL358-MW5A-230315	03/15/2023	**48**	**93**	**160**	**1.3**	0.80 U	**14**	0.22 U	**2.8**	**610**	1.2 U	**7.3**	0.050 U	**0.64**	0.020 U	--	--	**2.2**	**2.1**	--	--	**2,580**	-12.7	6.55	0.22	12.00
		FL358-MW5A-230607	06/07/2023	**170**	**140**	**210**	2.0 U	2.0 U	**20**	0.22 U	**4.4**	**510**	1.2 U	**6.6**	**0.059**	**0.061**	0.020 U	--	--	**2.6**	**1.7**	--	**0.90**	**–**	37.3	6.55	0.12	15.35
		FL358-MW5A-230913	09/13/2023	**110**	**110**	**110**	0.80 U	0.80 U	**11**	--	**0.87**	**360**	1.2 U	**6.4**	**0.16**	0.050 U	0.020 U	--	--	**2.4**	**1.2**	--	**0.89**	**–**	1.4	6.48	0.28	14.27
		FL358-MW5A-231208	12/08/2023	**120**	**110**	**100**	1.0 U	1.0 U	**8.2**	0.56 U	**0.58**	**710**	3.1 U	**7.1**	**0.077**	0.050 U	0.020 U	--	--	--	**0.86**	--	**1.16**	**–**	234.3	6.36	0.64	14.01
		FL358-MW5A-240320	03/20/2024	**73**	**94**	**68**	2.0 U	2.0 U	**6.0**	0.56 U	0.58 U	**320**	3.1 U	**8.8**	**0.060**	0.050 U	0.020 U	**8.6**	--	**2.4**	**1.3**	--	**0.97**	**–**	40.4	6.04	0.40	12.51
		FL358-MW5A-240620	06/20/2024	**97**	**91**	**67**	2.0 U	2.0 U	**7.2**	0.56 U	0.58 U	**420**	3.1 U	**7.4**	**0.070**	0.050 U	0.020 U	**15**	**29**	2 U	**1.5**	--	**1.11**	**–**	29.7	6.30	0.68	13.88
		FL358-MW5A-240919	09/19/2024	**82**	**120**	**80**	2.0 U	2.0 U	**6.4**	0.56 U	0.58 U	**1600**	3.1 U	**8.0**	**0.073**	0.050 U	0.020 U	**5.6**	**23**	**2**	**2**	--	**0.21**	**150**	-1.5	6.45	0.12	14.90
		FL358-MW5A-241231	12/31/2024	**55**	**63**	**45**	2.0 U	2.0 U	**3.4**	0.56 U	0.58 U	**630 J**	3.1 U	**9.7**	**0.13**	**0.21 J**	0.020 U	**13 J**	**27**	**6**	**3.2**	--	**3.22**	--	-307.5	3.32	0.09	13.38
		FL358-DUP-241231	12/31/2024	**52**	**64**	**47**	2.0 U	2.0 U	**3.8**	0.56 U	0.58 U	**1200 J**	3.1 U	**9.5**	**0.11**	**0.066 J**	0.020 U	**7.7 J**	**27**	**7**	**3.3**	--	--	--	--	--	--	--	--
		FL358-MW5A-250305	03/05/2025	**87**	**68**	**50**	2.0 U	2.0 U	**3.0**	0.56 U	0.58 U	**610**	3.1 U	**8.8**	**0.11 J**	0.050 U	0.020 U	**7.4 J**	**31**	**6**	**4.2**	--	**2.47**	--	11.8	6.35	0.21	12.96
		FL358-DUP-250305	03/05/2025	**84**	**66**	**49**	2.0 U	2.0 U	**2.9**	0.56 U	0.58 U	**510**	3.1 U	**10**	**0.056 J**	**0.063**	0.020 U	**19 J**	**30**	**5**	**4.3**	--	--	--	--	--	--	--	--
		FL358-MW5A-250611	06/11/2025	**350**	**200**	**120**	1.0 U	1.0 U	**9.4**	0.56 U	0.58 U	**290**	3.1 U	**8.2**	**0.20**	**0.058**	0.020 U	**17**	**31**	**3**	**4.9**	--	--	--	-56.6	6.4	0.68	13.31
FL358-MW5B	Permanent	FL358-MW5B-220630	06/30/2022	**3.4**	**0.83**	0.20 U	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**100**	1.2 U	**4.9**	**0.079**	0.050 U	0.020 U	--	--	--	**0.12**	--	--	--	-36.1	7.59	0.18	14.20
		FL358-MW5B-082422	08/24/2022	**0.26**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**110**	1.2 U	**5.1**	0.050 U	0.050 U	0.020 U	--	--	--	**0.19**	--	--	--	-3.2	6.04	0.08	14.10
		FL358-MW5B-112822	11/28/2022	**0.20**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.3	6.81	0.13	13.68
		FL358-MW5B-230315	03/15/2023	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**45**	1.2 U	**4.0**	0.050 U	0.050 U	0.020 U	--	--	**3.2**	**0.22**	--	--	**18.6**	33.1	6.58	0.28	13.10
		FL358-MW5B-230607	06/07/2023	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**74**	1.2 U	**3.8**	0.050 U	0.050 U	0.020 U	--	--	2 U	**0.32**	--	**0.0**	**–**	78.8	6.62	0.30	19.14
		FL358-MW5B-230913	09/13/2023	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	0.29 U	**110**	1.2 U	**3.1**	**0.082**	0.050 U	0.020 U	--	--	2 U	**0.59**	--	**0.12**	**–**	48.1	6.36	3.93	17.38
		FL358-MW5B-231208	12/08/2023	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.56 U	0.58 U	**430**	3.1 U	**4.0**	**0.060**	0.050 U	0.020 U	--	--	--	**0.8**	--	**0.21**	**–**	234.8	6.37	0.40	13.08
		FL358-DUP-231208	12/08/2023	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.56 U	0.58 U	**490**	3.1 U	**3.8**	0.050 U	0.050 U	0.020 U	--	--	--	**0.69**	--	**0.21**	**–**	--	--	--	--
		FL358-MW5B-240320	03/20/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**560**	**230**	**5.4**	0.053 U	0.050 U	0.020 U	**11**	--	**2.5**	**0.20**	--	**0.0**	**–**	91.2	6.16	0.58	12.65
		FL358-MW5B-240620	06/20/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**420**	3.1 U	**5.5**	0.053 U	0.050 U	0.020 U	**19**	**25**	2 U	**0.21**	--	**0.1**	**–**	73.5	6.53	2.77	14.68
		FL358-MW5B-240919	09/19/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**420**	3.1 U	**6.0**	**0.059**	0.050 U	0.020 U	**11**	**24**	**2**	**0.094**	--	**0.06**	**–**	92.1	6.44	0.18	14.0
		FL358-MW5B-241231	12/31/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**210**	3.1 U	**6.9**	0.053 U	0.050 U	0.020 U	**9.9**	**29**	**5**	**0.14**	--	**0**	--	-34.0	9.11	0.38	11.2
		FL358-MW5B-250305	03/05/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**58**	3.1 U	**6.8**	0.053 U	0.050 U	0.020 U	**5.8**	**29**	**2**	**0.25**	--	**0.13**	--	68.4	6.42	0.28	13.3
		FL358-MW5B-250611	06/11/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**42**	3.1 U	**7.3**	0.053 U	0.050 U	0.020 U	**5.9**	**28**	2 U	**0.24**	--	**0.75**	--	-41.9	6.41	0.49	14.1
FL358-MW6	Permanent	FL358-MW6-220630	06/30/2022	**38**	**100**	**86**	1.0 U	1.0 U	**1.5**	0.22 U	0.29 U	**2000**	**8.7**	**8.3**	**0.10**	0.050 U	0.020 U	--	--	--	**0.43**	--	--	--	7.7	7.30	0.30	13.77
		FL358-MW6-082522	08/05/2022	**53**	**130**	**110**	**1.1**	0.80 U	**1.8**	0.22 U	0.29 U	**2100**	1.2 U	**7.9**	**0.16**	0.050 U	0.020 U	--	--	--	**0.68**	--	--	--	61.7	5.98	0.09	15.21
		FL358-MW6-113022	11/30/2022	**32**	**100**	**71**	0.80 U	0.80 U	**1.0**	--	--	--	--	--	--	0.050 U	--	--	--	--	--	--	--	--	27.7	6.77	0.11	13.89
		FL358-MW6-230315	03/15/2023	**39**	**150**	**96**	**0.88**	0.80 U	**1.4**	0.22 U	0.29 U	**1400**	1.2 U	**7.0**	0.15 J	0.050 U	0.020 U	--	--	**6.3**	**0.73**	--	--	**89.9**	29.0	6.48	4.10	12.50
		GW-DUP-230315	03/15/2023	**37**	**140**	**91**	**0.85**	0.80 U	**1.4**	0.22 U	0.29 U	**1500**	1.2 U	**7.1**	0.067 J	0.050 U	0.020 U	--	--	**6.2**	**0.65**	--	--	**99.8**	--	--	--	--
		FL358-MW6-230607	06/07/2023	**34**	**99**	**64**	0.80 U	0.80 U	**1.2**	0.22 U	0.29 U	**970**	1.2 U	**6.6**	**0.13**	0.050 U	0.020 U	--	--	2 U	**1.1**	--	**0.36**	--	44.5	6.62	0.15	12.54
		FL358-DUP-230607	06/07/2023	**36**	**96**	**65**	0.80 U	0.80 U	**1.2**	0.22 U	0.29 U	**770**	1.2 U	**7.0**	**0.081**	0.050 U	0.020 U	--	--	**2.8**	**0.79**	--	**0.36**	**–**	--	--	--	--
		FL358-MW6-230913	09/13/2023	**18**	**110**	**86**	0.80 U	0.80 U	**1.3**	--	0.29 U	**230**	1.2 U	**5.9**	0.089 J	0.050 U	**0.044**	--	--	2 U	**3.6**	--	**0.75**	**–**	38.0	6.63	7.75	14.09
		FL358-DUP-230913	09/13/2023	**17**	**100**	**83**	0.80 U	0.80 U	**1.3**	--	0.29 U	**200**	1.2 U	**5.9**	0.14 J	0.050 U	**0.037**	--	--	2 U	**3.6**	--	**0.75**	**–**	--	--	--	--
		FL358-MW6-231208	12/08/2023	**17**	**96**	**52**	1.0 U	1.0 U	*1.0 U*	0.56 U	0.58 U	**450**	3.1 U	**4.7**	**0.065**	0.050 U	0.020 U	--	--	--	**1.2**	--	**0.57**	**–**	46.4	6.43	0.51	13.46
		FL358-MW6-240320	03/20/2024	**6.1**	**120**	**76**	2.0 U	2.0 U	**0.95**	0.56 U	0.58 U	**750**	3.1 U	**8.4**	0.053 U	0.050 U	0.020 U	**6.5**	--	**2.3**	**0.74**	--	**0.47**	**–**	61.8	6.42	0.26	12.59
		FL358-DUP-240320	03/20/2024	**7.4**	**130**	**77**	2.0 U	2.0 U	**0.98**	0.56 U	0.58 U	**830**	3.1 U	**8.3**	**0.079**	0.050 U	0.020 U	**6.6**	--	**3.2**	**0.77**	--	**–**	--	--	--	--	--
		FL358-MW6-240620	06/20/2024	**2.7**	**77**	**62**	2.0 U	2.0 U	**0.97**	0.56 U	0.58 U	**830**	3.1 U	**7.8**	**0.072**	0.050 UJ	0.020 U	**9.3**	**33**	2 U	**0.85**	--	**0.47**	--	61.4	6.28	0.68	14.96
		FL358-MWDUP-240620	06/20/2024	**2.8**	**76**	**62**	2.0 U	2.0 U	**1.0**	0.56 U	0.58 U	**830**	3.1 U	**7.5**	**0.092**	**42 J**	0.020 U	**9.4**	**34**	2 U	**0.84**	--	**–**	--	--	--	--	--
		FL358-MW6-240919	09/19/2024	**2.9**	**70**	**76**	2.0 U	2.0 U	**0.99**	0.56 U	0.58 U	**830**	3.1 U	**7.6**	**2.7 J**	**0.053**	0.020 U	**7.5**	**23**	2 U	**0.76**	--	**0.51**	--	54.0	6.45	0.11	15.3
		FL358-DUP-240919	09/19/2024	**2.8**	**71**	**77**	2.0 U	2.0 U	**1.0**	0.56 U	0.58 U	**1000**	3.1 U	**7.6**	0.053 UJ	0.050 U	0.020 U	**6.8**	**23**	**2**	**0.78**	--	--	--	--	--	--	--	--
		FL358-MW6-241223	12/23/2024	**2.5**	**100**	**73**	**0.79**	0.40 U	**0.56**	0.56 U	0.58 U	**580**	3.1 U	**8.8**	**0.11**	0.050 U	0.020 U	**13**	**28**	--	**1.2**	--	**0.5**	--	42.8	6.36	0.92	14.20
		FL358-MW6-250305	03/05/2025	**13**	**120**	**72**	2.0 U	2.0 U	**0.49**	0.56 U	0.58 U	**230**	3.1 U	**8.4**	**0.086**	0.050 U	0.020 U	5.0 U	**31**	**4**	**1.5**	--	**0.20**	--	57.3	6.57	7.96	13.07
		FL358-MW6-250611	06/11/2025	**2.0**	**86**	**90**	**1.5**	1.0 U	**0.68**	0.56 U	0.58 U	**680**	3.1 U	**9.4**	**0.083**	0.050 U	0.020 U	5.0 U	**35**	**4**	**1.1**	--	**0.97**	--	83.9	6.33	0.68	12.52
		FL358-GWDUP-250611	06/11/2025	**1.7**	**85**	**91**	**1.5**	1.0 U	**0.68**	0.56 U	0.58 U	**790**	3.1 U	**9.1**	**0.082**	0.050 U	0.020 U	5.0 U	**36**	**4**	**1.1**	--	--	--	--	--	--	--	--

Location ID[1]	Well Type	Sample ID	Sample Date	VOCs[2] (µg/L)						Dissolved Gases[3] (µg/L)				Conventionals[4] (mg/L)											Groundwater Parameters[5]			
				Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Ethane	Ethene	Methane	Acetylene	Total Organic Carbon	Ammonia	Nitrate	Nitrite	Sulfate	Chloride Ion	Biological Oxygen Demand	Total Iron	Ferrous Iron	Ferrous Iron[6] (Field Test Kit)	DHC[7] (cells/mL)	ORP (mV)	pH	DO (mg/L)	Temperature (°C)
Groundwater Preliminary Cleanup Level (µg/L)				5	5	16	100	7	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Commercial Use[8] (µg/L)				120	12	1,600	650	1,100	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Residential Use[8] (µg/L)				25	1.4	180	77	130	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conditions Indicative of Reductive Dechlorination Occuring[9]				N/A	Detected	>80% of total DCEs	Detected	Detected	Detected	N/A	>10	>500	Detected	>20 mg/L	Detected and Increasing	<1.0 mg/L	Detected and Increasing	< 20 mg/L	>2x background (31 mg/L)[10]	Detected	>1.0 mg/L	>1.0 mg/L	>1.0 mg/L	>1,000 (likely) >10 and <1,000 (possible)	<-50 mV (possible) <-100 mV (likely)	5 < pH < 9	<0.5 mg/L (anaerobic) >0.5 mg/L (aerobic)	>20 C°= faster dechlor-ination
FL358-MW7	Permanent	FL358-MW7-220629	06/29/2022	**0.33**	0.20 U	**6.0**	0.20 U	0.20 U	**3.7**	0.22 U	0.29 U	**4100**	1.2 U	**20**	**2.9**	**0.064**	0.020 U	--	--	--	**36**	--	--	--	-46.0	7.56	0.63	13.49
		FL358-MW7-082422	08/24/2022	**0.28**	0.20 U	**7.1**	0.20 U	0.20 U	**4.6**	0.22 U	0.29 U	**3100**	1.2 U	**20**	**3.9**	**0.63**	0.020 U	--	--	--	**43**	--	--	--	-46.9	6.29	0.08	15.70
		FL358-MW7-112922	11/29/2022	0.20 U	0.20 U	**5.3**	0.20 U	0.20 U	**4.9**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-30.5	6.70	0.21	14.83
		FL358-MW7-230314	03/14/2023	**0.35**	0.20 U	**4.7**	0.20 U	0.20 U	**4.0**	0.22 U	0.29 U	**4500**	1.2 U	**18**	**2.2**	0.050 U	0.020 U	--	--	**6**	**35**	--	--	**265**	-115.1	6.46	4.23	12.10
		FL358-MW7-230606	06/06/2023	**0.25**	0.20 U	**3.4**	0.20 U	0.20 U	**3.3**	0.22 U	0.29 U	**4900**	1.2 U	**18**	**2.9**	**0.12**	0.020 U	--	--	**7.7**	**45**	--	**2.06**	--	-34.1	6.53	0.18	12.44
		FL358-MW7-230912	09/12/2023	0.20 U	0.20 U	**9.5**	0.20 U	0.20 U	**9.2**	--	**0.73**	**1500**	1.2 U	**19**	**3.8**	**0.067**	0.020 U	--	--	**7.8**	**51**	--	**2.89**	--	-11.0	6.20	7.15	15.27
		FL358-MW7-231207	12/07/2023	0.40 U	0.40 U	**7.4**	0.40 U	0.40 U	**10**	0.56 U	0.58 U	**2400**	3.1 U	**20**	**3.7**	**0.32**	0.020 U	--	--	--	**46**	--	**1.63**	--	-63.0	6.26	0.49	13.46
		FL358-MW7-240319	03/19/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**2.1**	0.56 U	0.58 U	**1500**	3.1 U	**21**	**1.6**	0.050 U	0.020 U	**70**	--	**13**	**31**	**31.5**	**>7.0**	--	-30.6	6.40	0.51	12.98
		FL358-MW7-240619	06/19/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**2.4**	0.56 U	0.58 U	**3800**	3.1 U	**17**	**2.3**	**0.096**	0.020 U	**41**	**25**	**6**	**44**	--	**>3.30**	--	-54.2	6.32	1.23	14.57
		FL358-MW7-240918	09/18/2024	2.0 U	2.0 U	**2.2**	2.0 U	2.0 U	**2.7**	0.56 U	0.58 U	**3600**	3.1 U	**17**	**2.9**	**0.16**	0.020 U	**20**	**20**	**15**	**42**	--	**>7.0**	--	-107.3	6.42	3.56	15.20
		FL358-MW7-241230	12/30/2024	2.0 U	2.0 U	**3.5**	2.0 U	2.0 U	**3.7**	0.56 U	0.58 U	**320**	3.1 U	**18**	**2.8**	**0.52**	0.020 U	**39**	**25**	--	**45**	--	**6.0**	--	-472.1	8.29	0.09	14.31
		FL358-MW7-250305	03/05/2025	2.0 U	2.0 U	**4.0**	2.0 U	2.0 U	**4.6**	0.56 U	0.58 U	**890**	3.1 U	**17**	**2.4**	**17**	0.020 U	**31**	**21**	**12**	**38**	--	**2.72**	--	-45.5	6.31	0.20	12.37
		FL358-MW7-250610	06/10/2025	1.0 U	0.20 U	**3.1**	1.0 U	1.0 U	**3.8**	0.56 U	0.58 U	**980**	3.1 U	**20**	**2.4**	**0.18**	0.020 U	**30**	**25**	**9**	**44**	--	**2.84**	--	-97.3	6.29	0.92	17.28
FL358-MW8	Permanent	FL358-MW8-220628	06/28/2022	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**170**	1.2 U	**4.4**	0.050 U	0.050 U	0.020 U	--	--	--	**0.33**	--	--	--	61.3	7.43	0.30	13.20
		FL358-MW8-082322	08/23/2022	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**180**	1.2 U	**4.6**	0.050 U	0.050 U	0.020 U	--	--	--	**0.26**	--	--	--	-65.2	5.90	0.14	14.01
		FL358-MW8-112822	11/28/2022	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	0.020 U	--	--	--	--	--	--	--	70.2	6.84	0.10	13.47
		FL358-MW8-230315	03/15/2023	0.20 U	**0.25**	0.20 U	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**56**	1.2 U	**4.0**	0.050 U	0.050 U	0.020 U	--	--	2 U	**1.4**	--	--	**4.6**	-5.6	6.60	0.09	13.00
		FL358-MW8-230607	06/07/2023	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**71**	1.2 U	**3.9**	0.050 U	**0.058**	0.020 U	--	--	2 U	**0.93**	--	**0.23**	--	46.0	6.59	0.15	14.83
		FL358-MW8-230913	09/13/2023	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	0.29 U	**67**	1.2 U	**2.8**	0.050 U	0.050 U	0.020 U	--	--	**2**	**2.9**	--	**0.34**	--	38.0	6.45	7.72	14.64
		FL358-MW8-231208	12/08/2023	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.56 U	0.58 U	**170**	3.1 U	**3.1**	0.050 U	**0.072**	0.020 U	--	--	--	**1.2**	--	**0.26**	--	234.2	6.43	0.56	12.73
		FL358-MW8-240319	03/19/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**320**	3.1 U	**4.9**	0.053 U	0.050 U	0.020 U	**8.6**	--	**3.3**	**0.73**	--	**0.49**	--	41.8	6.11	0.23	13.21
		FL358-MW8-240620	06/20/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**220**	--	**3.9**	0.053 U	0.050 U	0.020 U	**9.5**	**25**	2 U	**0.59**	--	**0.41**	--	45.9	6.63	8.17	14.08
		FL358-MW8-240918	09/18/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**250**	3.1 U	**4.2**	0.053 U	0.050 U	0.020 U	**8.5**	**24**	2 U	**0.45**	--	**0.42**	--	70.3	6.53	3.92	14.10
		FL358-MW8-241219	12/19/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.56 U	0.58 U	**190**	3.1 U	**4.3**	0.053 U	0.050 U	0.020 U	**9.7**	**30**	--	**0.42**	--	**0.24**	--	24.0	6.35	5.90	14.11
		FL358-MW8-250305	03/05/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**73**	3.1 U	**4.6**	0.053 U	**0.083**	0.020 U	**7.0**	**30**	**3**	**0.54**	--	**0.47**	--	50.0	6.41	0.26	12.98
		FL358-MW8-250610	06/10/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**39**	3.1 U	**5.2**	0.053 U	0.050 U	0.020 U	**7.2**	**46**	**3**	**0.44**	--	**0.22**	--	-87.2	6.41	0.47	13.54
FL358-MW9	Permanent	FL358-MW9-220628	06/28/2022	**0.87**	**2.6**	**2.6**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**6100**	1.2 U	**13**	**1.3**	0.050 U	0.020 U	--	--	--	**59**	--	--	--	-63.5	7.53	0.29	13.56
		FL358-MW100-220628	06/28/2022	**0.58**	**1.8**	**1.8**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**5300**	1.2 U	**13**	**1.4**	0.050 U	0.020 U	--	--	--	**57**	--	--	--	-	-	-	-
		FL358-MW9-082322	08/23/2022	**1.7**	**2.9**	**2.0**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**6400**	1.2 U	**14**	**1.4**	**0.63**	0.020 U	--	--	--	**54**	--	--	--	-53.4	5.92	0.07	14.57
		FL358-MW101	08/23/2022	**1.6**	**2.8**	**2.0**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**6400**	1.2 U	**14**	**1.5**	**0.48**	0.020 U	--	--	--	**53**	--	--	--	-	-	-	-
		FL358-MW9-112922	11/29/2022	0.20 U	0.20 U	**1.8**	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.7	6.62	0.12	13.71
		FL358-MW9-230315	03/15/2023	0.20 U	**0.23**	**1.8**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**7600**	1.2 U	**14**	**1.4**	0.050 U	0.020 U	--	--	**13**	**52**	--	--	**226**	-94.1	6.36	1.00	12.50
		FL358-MW9-230607	06/07/2023	0.20 U	**0.86**	**2.7**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**7900**	1.2 U	**12**	**1.5**	**0.18**	0.020 U	--	--	**18**	**54**	--	**3.0**	--	-56.4	6.46	0.17	12.60
		FL358-MW9-230913	09/13/2023	0.20 U	**0.86**	**5.6**	0.20 U	0.20 U	0.20 U	--	0.29 U	**4900**	1.2 U	**10**	**1.8**	0.074	**0.028**	--	--	2 U	**46**	--	**2.37**	--	-53.4	6.36	2.54	13.52
		FL358-MW9-231208	12/08/2023	0.20 U	**1.6**	**12**	0.20 U	0.20 U	**0.61**	0.56 U	0.58 U	**3600**	3.1 U	**11**	**1.7**	**0.20**	0.020 U	--	--	--	**43**	--	**2.01**	--	-64.8	6.34	0.33	13.23
		FL358-MW09-240321	03/21/2024	2.0 U	2.0 U	**6.9**	2.0 U	2.0 U	**0.32**	0.56 U	0.58 U	**8100**	3.1 U	**13**	**1.3**	0.050 U	0.020 U	5.0 U	--	**12**	**56**	**56.2**	**5.0**	--	-58.2	6.25	0.01	12.77
		FL358-MW9-240620	06/20/2024	2.0 U	2.0 U	**2.9**	2.0 U	2.0 U	**0.21**	0.56 U	0.58 U	**4100**	3.1 U	**12**	**1.3**	**0.20**	0.020 U	5.0 U	**22**	**13**	**46**	--	**1.73**	--	-56.2	6.50	8.80	13.77
		FL358-MW9-240917	09/17/2024	0.20 U	**0.67**	**6.1**	0.20 U	0.20 U	**0.25**	0.56 U	0.58 U	**3900**	**3.5**	**12**	**1.2**	**0.13**	0.020 U	**5.5**	**22**	**17**	**47**	--	**>3.0**	--	-197.6	6.38	3.04	14.2
		FL358-MW9-241223	12/23/2024	0.20 U	**0.34**	**3.4**	0.20 U	0.20 U	**0.26**	0.56 U	0.58 U	**3500**	3.1 U	**13**	**2.1**	**0.18**	0.020 U	5.0 U	**26**	--	**56**	--	**>3.0**	--	-67.1	6.36	0.28	13.26
		FL358-MW9-250305	03/05/2025	2.0 U	**2.2**	**13**	2.0 U	2.0 U	**0.61**	0.56 U	0.58 U	**1000**	3.1 U	**12**	**1.2**	0.050 U	0.020 U	5.0 U	**22**	**7**	**39**	--	**>10**	--	-38.2	6.58	6.78	13.61
		FL358-MW9-250610	06/10/2025	1.0 U	0.20 U	**3.1**	1.0 U	1.0 U	**0.74**	0.56 U	0.58 U	**1700**	3.1 U	**15**	**1.1**	**0.17**	0.020 U	5.0 U	**30**	**19**	**44**	--	**--**	--	-88.5	6.40	0.41	13.99

Location ID[1]	Well Type	Sample ID	Sample Date	VOCs[2] (µg/L)						Dissolved Gases[3] (µg/L)				Conventionals[4] (mg/L)										DHC[7] (cells/mL)	Groundwater Parameters[5]			
				Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Ethane	Ethene	Methane	Acetylene	Total Organic Carbon	Ammonia	Nitrate	Nitrite	Sulfate	Chloride Ion	Biological Oxygen Demand	Total Iron	Ferrous Iron	Ferrous Iron[6] (Field Test Kit)		ORP (mV)	pH	DO (mg/L)	Temperature (°C)
Groundwater Preliminary Cleanup Level (µg/L)				5	5	16	100	7	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Commercial Use[8] (µg/L)				120	12	1,600	650	1,100	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Residential Use[8] (µg/L)				25	1.4	180	77	130	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conditions Indicative of Reductive Dechlorination Occuring[9]				N/A	Detected	>80% of total DCEs	Detected	Detected	Detected	N/A	>10	>500	Detected	>20 mg/L	Detected and Increasing	<1.0 mg/L	Detected and Increasing	< 20 mg/L	>2x background (31 mg/L)[10]	Detected	>1.0 mg/L	>1.0 mg/L	>1.0 mg/L	>1,000 (likely) >10 and <1,000 (possible)	<-50 mV (possible) <-100 mV (likely)	5 < pH < 9	<0.5 mg/L (anaerobic) >0.5 mg/L (aerobic)	>20 C°= faster dechlor-ination
FL358-MW10	Permanent	FL358-MW10-220627	06/27/2022	0.20 U	**0.36**	**7.6**	0.20 U	0.20 U	**0.22**	0.22 U	0.29 U	**2700**	1.2 U	**10**	**0.57**	0.050 U	0.020 U	--	--	--	**24**	--	--	--	13.4	6.13	0.28	14.90
		FL358-MW10-082322	08/23/2022	0.20 U	**0.36**	**9.0**	0.20 U	0.20 U	**0.36**	0.22 U	0.29 U	**5000**	1.2 U	**11**	**0.61**	**0.45**	0.020 U	--	--	--	**23**	--	--	--	-12.9	5.85	0.05	15.67
		FL358-MW10-112922	11/29/2022	0.20 U	**0.28**	**6.2**	0.20 U	0.20 U	**0.31**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-5.3	6.61	0.08	14.35
		FL358-MW101-112922	11/29/2022	0.20 U	**0.29**	**6.2**	0.20 U	0.20 U	**0.33**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-	-	-	-
		FL358-MW10-230314	03/14/2023	0.20 U	**0.25**	**6.4**	0.20 U	0.20 U	**0.52**	0.22 U	0.29 U	**3500**	1.2 U	**11**	**0.54**	0.050 U	0.020 U	--	--	**3.9**	**24**	--	--	**54.8**	-92.7	6.32	2.49	13.50
		FL358-MW10-230607	06/07/2023	0.20 U	0.20 U	**4.9**	0.20 U	0.20 U	**0.46**	0.22 U	0.29 U	**3800**	1.2 U	**9.8**	**0.61**	**0.095**	0.020 U	--	--	**8**	**22**	--	**2.88**	--	-22.0	6.44	0.29	12.57
		FL358-MW10-230912	09/12/2023	0.20 U	0.20 U	**1.0**	0.20 U	0.20 U	0.20 U	--	0.29 U	**3500**	1.2 U	**10**	**0.74**	0.050 U	0.020 U	--	--	**4.6**	**29**	--	**7.0**	--	-57.4	6.27	1.34	14.26
		FL358-MW10-231211	12/11/2023	0.20 U	0.20 U	**0.44**	0.20 U	0.20 U	0.20 U	0.56 U	0.58 U	**3000**	3.1 U	**17**	**1.5**	**0.25**	0.020 U	--	--	--	**49**	--	**7.0**	--	196.2	6.40	0.81	13.75
		FL358-MW10-240320	03/20/2024	0.20 U	0.20 U	2.0 U	0.20 U	0.20 U	0.20 U	0.56 U	0.58 U	**4600**	3.1 U	**13**	**0.93**	0.050 U	0.020 U	**12**	--	**6.9**	**45**	**42.7**	**6.5**	--	-60.7	6.05	0.35	12.91
		FL358-MW10-240620	06/20/2024	0.20 U	0.20 U	2.0 U	0.20 U	0.20 U	**0.28**	0.56 U	0.58 U	**2600**	3.1 U	**12**	**0.75**	**0.41**	0.020 U	5.0 U	**17**	**14**	**30**	--	**1.85**	--	-38.5	6.21	0.83	13.67
		FL358-MW10-240917	09/17/2024	0.20 U	0.20 U	**2.5**	0.20 U	0.20 U	**0.54**	0.56 U	0.58 U	**1700**	3.1 U	**9.3**	**0.55**	**0.20**	0.020 U	5.0 U	**17**	**7**	**23**	--	**>3.0**	--	-100.0	6.35	1.90	14.4
		FL358-MW10-241220	12/20/2024	0.20 U	0.20 U	**0.51**	0.20 U	0.20 U	0.20 U	0.56 U	0.58 U	**3900**	3.1 U	**12**	**1.1**	0.050 U	0.020 U	5.0 U	**21**	--	**42**	--	**--**	--	-70.7	9.44	3.79	14.29
		FL358-MW10-250305	03/05/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**1400**	3.1 U	**13**	**0.97**	**1.3**	0.020 U	5.0 U	**24**	**18**	**45**	--	**1.63**	--	-23.3	6.23	0.22	12.66
		FL358-MW10-250609	06/09/2025	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U	0.56 U	0.58 U	**1400**	3.1 U	**15**	**1.1**	**0.082**	0.020 U	**28**	**46**	**10**	**57**	--	**3.5**	--	-102.8	6.22	0.77	13.84
FL358-MW11	Permanent	FL358-MW11-220627	06/27/2022	0.20 U	0.20 U	**7.7**	0.20 U	0.20 U	**4.8**	0.22 U	0.29 U	**2900**	1.2 U	**24**	**2.8**	**0.14**	0.020 U	--	--	--	**46**	--	--	--	5.6	6.11	0.26	14.90
		FL358-MW11-082422	08/24/2022	0.20 U	0.20 U	**8.8**	0.20 U	0.20 U	**5.5**	0.22 U	0.29 U	**2700**	1.2 U	**23**	**2.8**	**0.70**	0.020 U	--	--	--	**42**	--	--	--	-46.7	5.87	0.05	14.97
		FL358-MW11-113022	11/30/2022	0.20 U	0.20 U	**6.1**	0.20 U	0.20 U	**4.1**	--	--	--	--	--	--	--	0.020 U	--	--	--	--	--	--	--	-29.9	6.58	0.05	14.91
		FL358-MW11-230315	03/15/2023	0.20 U	0.20 U	**6.1**	0.20 U	0.20 U	**5.0**	0.22 U	0.29 U	**3700**	1.2 U	**22**	**2.8**	**0.074**	0.020 U	--	--	**9.7**	**36**	--	--	**124**	-91.2	6.39	0.43	12.30
		FL358-MW11-230607	06/07/2023	0.20 U	0.20 U	**4.2**	0.20 U	0.20 U	**3.3**	0.22 U	0.29 U	**4100**	1.2 U	**22**	**3.1**	**0.18**	0.020 U	--	--	**12**	**47**	--	**3.5**	--	-40.0	6.33	0.49	14.06
		FL358-MW11-230912	09/12/2023	0.20 U	0.20 U	**5.1**	0.20 U	0.20 U	**4.5**	--	0.29 U	**1600**	1.2 U	**21**	**3.5**	**0.076**	0.020 U	--	--	**3.5**	**44**	--	**2.71**	--	-49.9	6.32	7.83	14.12
		FL358-MW11-231211	12/11/2023	0.20 U	0.20 U	**4.9**	0.20 U	0.20 U	**5.1**	0.56 U	0.58 U	**3000**	3.1 U	**21**	**3.8**	**0.78**	0.020 U	--	--	--	**35**	--	**3.19**	--	209.5	6.32	0.75	14.38
		FL358-MW11-240321	03/21/2024	2.0 U	2.0 U	**4.0**	2.0 U	2.0 U	**1.7**	0.56 U	0.58 U	**570**	3.1 U	**23**	**3.8**	0.050 U	0.020 U	**28**	--	**9.1**	**54**	**45.3**	**>7.0**	--	-65.0	6.49	8.76	13.21
		FL358-MW11-240619	06/19/2024	2.0 U	2.0 U	**2.1**	2.0 U	2.0 U	**2.2**	0.56 U	0.58 U	**2200**	3.1 U	**21**	**3.2**	**0.11**	0.020 U	**52**	**27**	**2**	**57**	--	**>3.30**	--	-34.6	6.21	1.21	14.05
		FL358-MW11-240919	09/19/2024	2.0 U	2.0 U	**2.4**	2.0 U	2.0 U	**0.85**	0.56 U	0.58 U	**580**	3.1 U	**18**	0.053 U	0.050 U	0.020 U	**12**	**21**	**6**	**36**	--	**>7.0**	**55**	-54.3	6.67	7.45	15.50
		FL358-MW11-250307	03/07/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**1.1**	0.56 U	0.58 U	**800**	3.1 U	**17**	**2.9**	**0.21**	0.020 U	5.0 U	**26**	**14**	**44**	--	**2.01**	--	-33.4	6.27	0.31	12.71
		FL358-MW11-250610	06/10/2025	1.0 U	0.20 U	**1.7**	1.0 U	1.0 U	**1.7**	0.56 U	0.58 U	**600**	3.1 U	**22**	**2.6**	**0.096**	0.020 U	**7.6**	**25**	**18**	**50**	--	**0.80**	--	-67.8	6.34	4.43	14.93
FL358-MW12	Permanent	FL358-MW12-220629	06/29/2022	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**3100**	1.2 U	**28**	**4.5**	**0.082**	0.020 U	--	--	--	**70**	--	--	--	-61.4	7.53	0.37	13.72
		FL358-MW12-082322	08/23/2022	0.20 U	0.20 U	**0.32**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**5500**	1.2 U	**28**	**4.3**	**0.41**	0.020 U	--	--	--	**69**	--	--	--	-75.0	5.87	0.11	14.37
		FL358-MW12-112822	11/28/2022	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	0.020 U	--	--	--	--	--	--	--	-18.2	6.60	0.44	12.79
		FL358-MW12-230315	03/15/2023	0.20 U	0.20 U	**0.29**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**5600**	1.2 U	**32**	**4.2**	**0.14**	0.020 U	--	--	**14**	**75**	--	--	**304**	-110.2	6.46	0.27	12.60
		FL358-MW12-230606	06/06/2023	0.20 U	0.20 U	**0.25**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**5700**	1.2 U	**28**	**3.9**	**0.22**	0.020 U	--	--	**13**	**73**	--	**3.0**	--	-36.0	6.42	0.34	14.76
		FL358-MW12-230912	09/12/2023	0.20 U	**0.23**	**0.52**	0.20 U	0.20 U	0.20 U	--	0.29 U	**1800**	1.2 U	**27**	**3.6**	0.050 U	0.020 U	--	--	**6.6**	**62**	--	**0.45**	--	-18.5	6.27	8.41	14.82
		FL358-MW12-231207	12/07/2023	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	**0.29**	0.56 U	0.58 U	**1700**	3.1 U	**27**	**4.1**	0.050 U	0.020 U	--	--	--	**59**	--	**3.0**	--	72.4	6.20	2.75	13.73
		FL358-MW12-240319	03/19/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.61**	0.56 U	0.58 U	**2700**	3.1 U	**28**	**3.1**	0.050 U	0.020 U	5.0 U	--	**13**	**65**	**67.2**	**7.0**	--	-38.7	6.12	3.85	13.55
		FL358-MW12-240619	06/19/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**3200**	3.1 U	**26**	**3.0**	0.050 U	0.020 U	10 U	**44**	**8**	**76**	--	**>3.30**	--	-76.3	6.36	1.82	14.81
		FL358-MW12-240918	09/18/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**3100**	3.1 U	**25**	**2.8**	0.050 U	0.020 U	5.0 U	**39**	**4**	**68**	--	**>3.0**	--	-122.7	6.45	4.19	14.3
		FL358-MW12-241230	12/30/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**4100**	3.1 U	**27**	**3.2**	0.050 U	0.020 U	5.0 U	**49**	--	**69**	--	**2.06**	--	-60.9	6.45	0.35	12.97
		FL358-MW12-250304	03/04/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**640**	3.1 U	**25**	**2.7**	0.050 U	0.020 U	5.0 U	**47**	**11**	**53**	--	**2.74**	--	-40.2	6.58	4.54	12.68
		FL358-MW12-250610	06/10/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**1500**	3.1 U	**31**	**2.4**	0.050 U	0.020 U	5.0 U	**40**	**14**	**65**	--	**0.85**	--	-72.1	6.43	2.39	13.89

Location ID[1]	Well Type	Sample ID	Sample Date	VOCs[2] (µg/L)						Dissolved Gases[3] (µg/L)				Conventionals[4] (mg/L)										DHC[7] (cells/mL)	Groundwater Parameters[5]			
				Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Ethane	Ethene	Methane	Acetylene	Total Organic Carbon	Ammonia	Nitrate	Nitrite	Sulfate	Chloride Ion	Biological Oxygen Demand	Total Iron	Ferrous Iron	Ferrous Iron[6] (Field Test Kit)		ORP (mV)	pH	DO (mg/L)	Temperature (°C)
Groundwater Preliminary Cleanup Level (µg/L)				5	5	16	100	7	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Commercial Use[8] (µg/L)				120	12	1,600	650	1,100	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Residential Use[8] (µg/L)				25	1.4	180	77	130	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conditions Indicative of Reductive Dechlorination Occuring[9]				N/A	Detected	>80% of total DCEs	Detected	Detected	Detected	N/A	>10	>500	Detected	>20 mg/L	Detected and Increasing	<1.0 mg/L	Detected and Increasing	< 20 mg/L	>2x background (31 mg/L)[10]	Detected	>1.0 mg/L	>1.0 mg/L	>1.0 mg/L	>1,000 (likely) >10 and <1,000 (possible)	<-50 mV (possible) <-100 mV (likely)	5 < pH < 9	<0.5 mg/L (anaerobic) >0.5 mg/L (aerobic)	>20 C°= faster dechlor-ination
FL358-MW13	Permanent	FL358-MW13-220628	06/28/2022	**8.0**	**2.9**	**4.3**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**41**	1.2 U	**7.5**	0.050 U	0.050 U	0.020 U	--	--	--	**2.2**	--	--	--	100.1	7.21	0.95	13.90
		FL358-MW13-082522	08/05/2022	**5.1**	**2.5**	**4.2**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**140**	1.2 U	**7.4**	**0.064**	0.050 U	0.020 U	--	--	--	**3.7**	--	--	--	35.0	5.79	1.43	15.73
		FL358-MW13-113022	11/30/2022	**1.1**	**0.56**	**0.79**	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	0.050 U	0.020 U	--	--	--	--	--	--	--	-2.8	6.63	0.31	14.64
		FL358-MW13-230315	03/15/2023	**5.7**	**2.6**	**4.9**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**270**	1.2 U	**9.0**	**0.078**	0.050 U	0.020 U	--	--	2 U	**5.2**	--	--	**1.6**	-14.1	6.28	0.29	13.20
		FL358-MW13-230606	06/06/2023	**4.0**	**1.8**	**3.5**	0.20 U	0.20 U	0.20 U	0.22 U	0.29 U	**250**	1.2 U	**8.6**	**0.084**	0.050 U	0.020 U	--	--	2 U	**7.8**	--	**4.5**	--	47.8	6.25	0.35	15.59
		FL358-MW13-230913	09/13/2023	**3.0**	**1.4**	**2.8**	0.20 U	0.20 U	0.20 U	--	0.29 U	**170**	1.2 U	**8.5**	**0.063**	0.050 U	0.020 U	--	--	2 U	**4.0**	--	**1.46**	--	12.6	6.21	4.45	15.09
		FL358-MW13-231207	12/07/2023	**3.2**	**1.5**	**3.3**	0.20 U	0.20 U	0.20 U	0.56 U	0.58 U	**51**	3.1 U	**7.7**	**0.057**	0.050 U	0.020 U	--	--	--	**4.8**	--	**--**	--	192.3	6.42	6.32	13.58
		FL358-MW13-240319	03/19/2024	**4.4**	2.0 U	**3.2**	2.0 U	2.0 U	**0.24**	0.56 U	0.58 U	**250**	3.1 U	**11**	0.053 U	0.050 U	0.020 U	5.0 U	--	**3.4**	**5.3**	--	**2.89**	--	52.5	6.21	0.48	13.49
		FL358-MW13-240619	06/19/2024	**3.5**	2.0 U	**2.5**	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**330**	3.1 U	**9.2**	**0.33**	0.050 U	0.020 U	5.0 U	**47**	**2**	**4.5**	--	**2.82**	--	34.4	6.26	2.73	15.12
		FL358-MW13-240918	09/18/2024	**3.0**	2.0 U	**2.2**	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**240**	3.1 U	**9.8**	0.053 U	0.050 U	0.020 U	5.0 U	**49**	**2**	**3.6**	--	**2.07**	--	56.8	6.26	0.70	15.6
		FL358-MW13-241230	12/30/2024	**3.0**	2.0 U	**2.1**	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**61**	3.1 U	**10**	0.053 U	0.050 U	0.020 U	5.0 U	**52**	--	**3.7**	--	**2.44**	--	-340.4	8.58	0.27	12.75
		FL358-MW13-250304	03/04/2025	**3.5**	2.0 U	**2.7**	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**43**	3.1 U	**9.3**	0.053 U	0.050 U	0.020 U	5.0 U	**45**	**3**	**4.4**	--	**2.14**	--	39.3	6.20	0.28	11.92
		FL358-MW13-250609	06/09/2025	**4.7**	**1.8**	**3.7**	1.0 U	1.0 U	**0.21**	0.56 U	0.58 U	**76**	3.1 U	**10**	**0.18**	0.050 U	0.020 U	**5.7**	**47**	**4**	**4.6**	--	**2.33**	--	-101.7	6.14	0.43	17.29
FL358-MW14	Permanent	FL358-MW14-220629	06/29/2022	0.20 U	**0.35**	**16**	0.20 U	0.20 U	**2.5**	0.22 U	0.29 U	**510**	1.2 U	**10**	**0.060**	0.050 U	0.020 U	--	--	--	**7.8**	--	--	--	-0.6	7.44	0.25	14.59
		FL358-MW14-082422	08/24/2022	0.20 U	0.20 U	**4.9**	0.20 U	0.20 U	**1.1**	0.22 U	0.29 U	**910**	1.2 U	**11**	**0.12**	0.050 U	0.020 U	--	--	--	**10**	--	--	--	11.0	5.84	0.23	16.13
		FL358-MW14-112922	11/29/2022	0.20 U	0.20 U	**7.1**	0.20 U	0.20 U	**1.5**	--	--	--	--	--	--	0.050 U	0.020 U	--	--	--	--	--	--	--	14.2	6.53	0.09	14.19
		FL358-MW14-230314	03/14/2023	0.20 U	**0.20**	**9.7**	0.20 U	0.20 U	**2.3**	0.22 U	0.29 U	**430**	1.2 U	**9.8**	**0.28**	0.050 U	0.020 U	--	--	**3**	**9.5**	--	--	0.5 U	-68.8	6.27	1.44	13.60
		FL358-MW14-230606	06/06/2023	0.20 U	0.20 U	**9.2**	0.20 U	0.20 U	**2.5**	0.22 U	0.29 U	**450**	1.2 U	**9.0**	**0.076**	0.050 U	0.020 U	--	--	2 U	**7.8**	--	**2.34**	--	21.6	6.26	0.21	14.48
		FL358-MW14-230912	09/12/2023	0.20 U	0.20 U	**9.1**	0.20 U	0.20 U	**1.8**	--	0.29 U	**100**	1.2 U	**8.3**	**0.22**	0.050 U	0.020 U	--	--	2 U	**7.5**	--	**1.80**	--	27.4	6.20	6.24	15.21
		FL358-MW14-231207	12/07/2023	0.40 U	0.40 U	**8.2**	0.40 U	0.40 U	**1.9**	0.56 U	0.58 U	**320**	3.1 U	**8.6**	**0.067**	**0.077**	0.020 U	--	--	--	**6.0**	--	**7.0**	--	-8.6	6.19	0.46	13.81
		FL358-MW14-240320	03/20/2024	2.0 U	2.0 U	**7.9**	2.0 U	2.0 U	**1.5**	0.56 U	0.58 U	**630**	3.1 U	**11**	**0.055**	0.050 U	0.020 U	**8.5**	--	**2.6**	**5.7**	**5.93**	**>7.0**	--	25.6	6.17	0.28	13.30
		FL358-MW14-240620	06/20/2024	2.0 U	2.0 U	**6.7**	2.0 U	2.0 U	**1.9**	0.56 U	0.58 U	**340**	3.1 U	**9.3**	**0.063**	0.050 UJ	0.020 U	**10**	**42**	2 U	**4.3**	--	**1.45**	--	27.8	6.07	0.67	15.36
		FL358-MW14-240918	09/18/2024	2.0 U	2.0 U	**7.8**	2.0 U	2.0 U	**2.4**	0.56 U	0.58 U	**440**	3.1 U	**9.9**	0.053 U	**0.062**	0.020 U	**5.1**	**27**	**2**	**5.5**	--	**6.5**	--	5.2	6.20	3.10	14.90
		FL358-MW14-241223	12/23/2024	0.20 U	0.20 U	**8.0**	0.20 U	0.20 U	**1.5**	0.56 U	0.58 U	**71**	3.1 U	**11**	**0.12**	**0.072**	0.020 U	**6.7**	**30**	--	**5.7**	--	**>3.0**	--	9.4	6.13	0.49	14.16
		FL358-MW14-250305	03/05/2025	2.0 U	2.0 U	**6.3**	2.0 U	2.0 U	**2.6**	0.56 U	0.58 U	**92**	3.1 U	**11**	**0.059**	0.050 U	0.020 U	**6.5**	**28**	**4**	**5.3**	--	**1.85**	--	25.1	6.12	0.23	14.18
		FL358-MW14-250610	06/10/2025	1.0 U	0.20 U	**5.6**	1.0 U	1.0 U	**2.5**	0.56 U	0.58 U	**170**	3.1 U	**11**	**0.070**	**0.11**	0.020 U	**6.0**	**29**	**4**	**6.6**	--	**1.79**	--	4.0	6.16	4.90	14.39
FL358-MW15	Permanent	FL358-MW15-240919	09/19/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**920**	3.1 U	**19**	**0.070**	0.050 U	**0.077**	5.0 U	**78**	**5**	**8.6**	--	**>3.0**	--	5.6	6.29	1.82	14.5
		FL358-MW15-241230	12/30/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**450**	3.1 U	**28**	**0.055**	**0.090**	0.020 U	5.0 U	**75**	--	**29**	--	**5.0**	--	-360.3	8.50	0.08	12.68
		FL358-MW15-250304	03/04/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**1100**	3.1 U	**27**	0.053 U	**0.070**	0.020 U	5.0 U	**72**	**6**	**35**	--	**>3.0**	--	-68.7	6.46	0.39	12.59
		FL358-MW15-250609	06/09/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**1000**	3.1 U	**32**	**0.070**	**0.097**	0.020 U	5.0 U	**82**	**13**	**33**	--	**0.75**	--	-11.9	6.46	0.24	15.68
FL358-MW16	Permanent	FL358-MW16-240918	09/18/2024	**39**	**43**	**130**	2.0 U	2.0 U	**5.8**	0.56 U	0.58 U	**1800**	3.1 U	**14**	**0.27**	0.050 U	0.020 U	**12**	**36**	**2**	**2.4**	--	**2.20**	--	-21.7	6.42	1.98	14.6
		FL358-MW16-241226	12/26/2024	**15 J**	**15 J**	**50 J**	2.0 U	2.0 U	**1.6 J**	0.56 U	0.58 U	**1200 J**	3.1 U	**20**	**2.1 J**	0.050 U	0.020 U	5.0 U	**42**	**12**	**13**	--	**--**	--	-16.1	6.3	0.30	12.50
		FL358-DUP-241226	12/26/2024	**26 J**	**24 J**	**73 J**	2.0 U	2.0 U	**2.3 J**	0.56 U	0.58 U	**2700 J**	3.1 U	**19**	**1.4 J**	0.050 U	0.020 U	5.0 U	**41**	**10**	**6.7**	--	--	--	--	--	--	--
		FL358-MW16-250304	03/04/2025	**43**	**55**	**170**	2.0 U	2.0 U	**6.0**	0.56 U	0.58 U	**340**	3.1 U	**15**	**0.56**	0.050 U	0.020 U	**6.6**	**40**	**2**	**7.0**	--	**2.00**	--	-4.5	6.35	0.3	12.16
		FL358-DUP-250304	03/04/2025	**43**	**56**	**170**	2.0 U	2.0 U	**6.2**	0.56 U	0.58 U	**330**	3.1 U	**15**	**0.58**	0.050 U	0.020 U	**6.4**	**41**	--	**7.1**	--	--	--	--	--	--	--
		FL358-MW16-250610	06/10/2025	**30**	**32**	**87**	1.0	1.0 U	**2.5**	0.56 U	0.58 U	**240**	3.1 U	**18**	**0.34 J**	0.050 U	0.020 U	**11**	**42**	**5**	**8.6**	--	**2.25**	--	-42.2	6.45	4.57	17.59
		FL358-MWDUP-250610	06/10/2025	**26**	**29**	**81**	1.0 U	1.0 U	**2.5**	0.56 U	0.58 U	**270**	3.1 U	**18**	**0.51 J**	0.050 U	0.020 U	**7.3**	**42**	**6**	**8.8**	--	--	--	--	--	--	--
FL358-MW17	Permanent	FL358-MW17-240920	09/20/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.52**	0.56 U	0.58 U	**2800**	3.1 U	**22**	**1.1**	**0.13**	0.020 U	5.0 U	**31**	**12**	**32**	--	**>3.0**	--	-80.5	6.37	0.09	14.4
		FL358-MW17-241226	12/26/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.24**	0.56 U	0.58 U	**1200**	3.1 U	**20**	**2.2**	**0.16**	0.020 U	5.0 U	**34**	**10**	**37**	--	**>3.0**	--	-49.6	6.33	0.26	13.23
		FL358-MW17-250304	03/04/2025	2.0 U	2.0 U	**3.2**	2.0 U	2.0 U	**0.68**	0.56 U	0.58 U	**580**	3.1 U	**19**	**0.28**	**0.11**	0.020 U	5.0 U	**37**	**5**	**38**	--	**3.08**	--	-68.0	6.44	-0.08	13.59
		FL358-MW17-250610	06/10/2025	1.0 U	0.20 U	**1.9**	1.0 U	1.0 U	**0.40**	0.56 U	0.58 U	**1000**	3.1 U	**23**	**1.5**	**0.17**	0.020 U	5.0 U	**38**	**14**	**44**	--	**1.75**	--	-87.8	6.26	0.21	16.86
FL358-MW18	Permanent	FL358-MW18-240919	09/19/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	**0.81**	**5800**	3.1 U	**30**	**0.83**	**0.18**	0.020 U	5.0 U	**20**	**19**	**53**	--	**>3.0**	**7.6**	-39.7	6.13	0.06	15.2

Location ID[1]	Well Type	Sample ID	Sample Date	VOCs[2] (µg/L)						Dissolved Gases[3] (µg/L)				Conventionals[4] (mg/L)											Groundwater Parameters[5]			
				Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Ethane	Ethene	Methane	Acetylene	Total Organic Carbon	Ammonia	Nitrate	Nitrite	Sulfate	Chloride Ion	Biological Oxygen Demand	Total Iron	Ferrous Iron	Ferrous Iron[6] (Field Test Kit)	DHC[7] (cells/mL)	ORP (mV)	pH	DO (mg/L)	Temperature (°C)
Groundwater Preliminary Cleanup Level (µg/L)				5	5	16	100	7	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Commercial Use[8] (µg/L)				120	12	1,600	650	1,100	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Indoor Air/Vapor Intrusion Residential Use[8] (µg/L)				25	1.4	180	77	130	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conditions Indicative of Reductive Dechlorination Occuring[9]				N/A	Detected	>80% of total DCEs	Detected	Detected	Detected	N/A	>10	>500	Detected	>20 mg/L	Detected and Increasing	<1.0 mg/L	Detected and Increasing	< 20 mg/L	>2x background (31 mg/L)[10]	Detected	>1.0 mg/L	>1.0 mg/L	>1.0 mg/L	>1,000 (likely) >10 and <1,000 (possible)	<-50 mV (possible) <-100 mV (likely)	5 < pH < 9	<0.5 mg/L (anaerobic) >0.5 mg/L (aerobic)	>20 C°= faster dechlor-ination
FL358-MW19	Permanent	FL358-MW19-240919	09/19/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	**0.64**	**2300**	3.1 U	**16**	**0.49**	0.050 U	**0.091**	**5.3**	**13**	**15**	**27**	--	**>3.0**	--	-48.3	6.65	5.48	14.4
		FL358-MW19-241219	12/19/2024	0.20 U	0.20 U	**0.44**	0.20 U	0.20 U	0.20 U	0.56 U	0.58 U	**4300**	3.1 U	**15**	**0.53**	**0.057**	0.020 U	**7.7**	**18**	--	**36**	--	**4.5**	--	-90.7	6.19	3.21	13.77
		FL358-MW19-250303	03/03/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**1100**	3.1 U	**13**	**1.1**	**0.10**	0.020 U	5.0 U	**19**	**11**	**45**	--	**0.41**	--	-66.9	6.25	0.13	13.65
		FL358-MW19-250609	06/09/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**1600**	3.1 U	**15**	**0.96**	0.050 U	0.020 U	5.0 U	**35**	**23**	**46**	--	**2.25**	--	-7.5	6.27	2.51	14.21
FL358-MW20	Permanent	FL358-MW20-240920	09/20/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.96**	0.56 U	0.58 U	**1300**	3.1 U	**16**	**1.1**	0.050 U	0.020 U	**9.6**	**23**	**6**	**19**	--	**>3.0**	--	-36.5	6.54	4.81	15.0
		FL358-MW20-241231	12/31/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.50**	0.56 U	0.58 U	**2200**	3.1 U	**15**	**1.4**	**0.052**	0.020 U	**49**	**22**	**9**	**18**	--	**>7.0**	--	-75.2	7.56	0.36	11.46
		FL358-MW20-250304	03/04/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.60**	0.56 U	0.58 U	**710**	3.1 U	**14**	**1.1**	0.050 U	0.020 U	**35**	**59**	**9**	**22**	--	**2.38**	--	-59.5	6.56	0.88	12.33
		FL358-MW20-250610	06/10/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	**0.73**	0.56 U	0.58 U	**600**	3.1 U	**18**	**1.1**	**0.090**	0.020 U	**26**	**44**	**10**	**24**	--	**0.054**	--	-36.2	6.41	7.48	14.41
FL358-MW21	Permanent	FL358-MW21-240920	09/20/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**3800**	3.1 U	**19**	**1.6**	**0.13**	**0.021**	5.0 U	**19**	**12**	**47**	--	**>3.0**	--	-5.9	6.16	2.49	14.3
		FL358-MW21-241230	12/30/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**4700**	3.1 U	**24**	**2.7**	**0.17**	**0.024**	5.0 U	**16**	--	**77**	--	**2.83**	--	-44.0	6.08	0.23	12.75
		FL358-MW21-250303	03/03/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**3500**	3.1 U	**22**	**2.6**	**0.22**	0.020 U	5.0 U	**16**	**15**	**69**	--	**2.79**	--	-41.1	6.21	-0.05	13.52
		FL358-MW21-250610	06/10/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**3800**	3.1 U	**23**	**2.9**	**0.19**	0.020 U	5.0 U	**16**	**20**	**62**	--	**0.186**	--	-44.7	6.23	0.37	16.23
FL358-MW22	Permanent	FL358-MW22-240919	09/19/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**3900**	3.1 U	**36**	**4.2**	**0.11**	**0.055**	**6.8**	**44**	**13**	**54**	--	**>3.0**	--	-24.5	6.18	1.69	15.3
		FL358-MW22-241230	12/30/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**3900**	3.1 U	**57**	**4.0**	**0.22**	0.020 U	5.0 U	**20**	--	**88**	--	**>7.0**	--	-14.8	6.11	0.25	8.50
		FL358-MW22-250303	03/03/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**2000**	3.1 U	**54**	**9.4**	**0.17**	0.020 U	**41**	**16**	**31**	**98**	--	**>7.0**	--	-11.4	6.07	1.39	13.09
		FL358-MW22-250609	06/09/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**2300**	3.1 U	**54**	**8.1**	**0.21**	0.020 U	5.0 U	**18**	**33**	**110**	--	**--**	--	-39.0	6.16	3.15	14.72
FL358-MW23	Permanent	FL358-MW23-241226	12/26/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**830**	3.1 U	**12**	**0.65**	0.050 U	0.020 U	**45**	**35**	**6**	**0.25**	--	**0.65**	--	13.9	6.84	0.38	13.00
		FL358-MW23-250303	03/03/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**360**	3.1 U	**11**	**0.51**	0.050 U	0.020 U	**23**	**51**	**5**	**3.0**	--	**0.59**	--	-25.3	6.91	0.27	11.40
		FL358-MW23-250609	06/09/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**140**	3.1 U	**5.0**	**0.073**	0.050 U	0.020 U	**23**	**65**	**3**	**1.8**	--	**0.69**	--	-98.7	6.48	1.84	15.07
FL358-MW24	Permanent	FL358-MW24-241231	12/31/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**330**	3.1 U	**6.9**	**0.16**	0.050 U	**0.020**	**28**	**57**	**4**	**0.79**	--	**0.20**	--	32.8	6.72	0.50	11.95
		FL358-MW24-250303	03/03/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**43**	3.1 U	**5.9**	**0.10**	0.050 U	0.020 U	**23**	**59**	**2**	**0.82**	--	**0.14**	--	34.8	6.74	1.13	12.1
		FL358-MW24-250609	06/09/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**34**	3.1 U	**5.8**	**0.091**	0.050 U	0.020 U	**64**	**70**	**4**	**0.37**	--	**0.15**	--	-99.5	6.64	1.15	14.16
FL358-MW25	Permanent	FL358-MW25-241230	12/30/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**240**	3.1 U	**2.2**	**0.058**	**0.23**	**0.14**	**19**	**26**	--	**1.3**	--	**0.45**	--	-154.4	6.76	0.20	12.38
		FL358-MW25-250303	03/03/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**150**	3.1 U	**1.7**	0.053 U	**0.51**	**0.028**	**19**	**29**	**4**	**1.4**	--	**0.51**	--	41.1	6.65	0.27	12.21
		FL358-MW25-250609	06/09/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**170**	3.1 U	**2.3**	0.053 U	**0.23**	0.020 U	**35**	**32**	**5**	**2.3**	--	**0.115**	--	19.5	6.45	6.16	14.64
FL358-MW26	Permanent	FL358-MW26-241226	12/26/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.50**	0.56 U	0.58 U	**3200**	3.1 U	**19**	**0.40**	**0.13**	0.020 U	**35**	**21**	**10**	**30**	--	**--**	--	-102.1	10.39	0.15	13.73
		FL358-MW26-250304	03/04/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.97**	0.56 U	0.58 U	**830**	3.1 U	**16**	**1.6**	**1.1**	0.020 U	**19**	**26**	**12**	**32**	--	**0.55**	--	-76.4	6.36	0.24	13.27
		FL358-MW26-250610	06/10/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	**0.50**	0.56 U	0.58 U	**1100**	3.1 U	**18**	**0.44**	**0.15**	0.020 U	**21**	**44**	**10**	**35**	--	**2.16**	--	-87.8	6.33	0.75	15.31
FL358-MW27	Permanent	FL358-MW27-241226	12/26/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**5700**	3.1 U	**28**	**4.0**	0.050 U	**0.027**	**10**	**20**	**12**	**12**	--	**--**	--	-81.3	11.36	2.13	14.37
		FL358-MW27-250303	03/03/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**2600**	3.1 U	**26**	**2.1**	**0.081**	0.020 U	5.0 U	**16**	**18**	**30**	--	**>3**	--	-70	6.58	0.30	12.87
		FL358-MW27-250609	06/09/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**2800**	3.1 U	**27**	**3.5**	0.050 U	0.020 U	5.0 U	**19**	**59**	**42**	--	**5.0**	--	-107.4	6.50	0.32	15.52
FL358-MW28	Permanent	FL358-MW28-250304	03/04/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**860**	3.1 U	**36**	**0.26**	**0.78**	0.020 U	**23**	**30**	**4**	**22**	--	**1.34**	--	-210.1	6.39	0.16	12.63
		FL358-MW28-250609	06/09/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**1900**	3.1 U	**44**	**0.53**	**0.12**	0.020 U	5.0 U	**33**	**24**	**40**	--	**2.65**	--	-25.9	6.39	0.54	17.31
FL358-MW29	Permanent	FL358-MW29-250303	03/03/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**2000**	3.1 U	**21**	**1.1**	**0.49**	0.020 U	**11**	**60**	**23**	**70**	--	**0.89**	--	-64.7	6.47	0.10	12.77
		FL358-MW29-250609	06/09/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**1200**	3.1 U	**18**	**0.69**	**0.20**	0.020 U	**9.6**	**84**	**18**	**79**	--	**0.395**	--	-60.2	6.29	0.64	15.6
FL358-MW30	Permanent	FL358-MW30-250304	03/04/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.20 U	0.56 U	0.58 U	**170**	3.1 U	**33**	**1.1**	0.050 U	0.020 U	**88**	**15**	**12**	**9.4**	--	**0.45**	--	-211.6	6.31	2.56	12.04
		FL358-MW30-250609	06/09/2025	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	0.56 U	0.58 U	**1500**	3.1 U	**47**	**2.7**	**0.16**	0.020 U	5.0 U	**14**	**36**	**120**	--	**2.22**	--	-2.8	6.23	3.38	16.53

See Notes on page 7

Notes:

[1] Sample locations are shown on Figures 2 and 6 through 11

[2] Volatile organic compounds (VOCs) analyzed by United States Environmental Protection Agency (EPA) Method 8260.

[3] Dissolved gases analyzed by Method RSK 175.

[4] Total organic carbon analyzed by EPA method SM5310B, Ammonia analyzed by EPA Method SM4500-NH_3D, Nitrate and Nitrite analyzed by EPA Method 353.2, Sulfate by ASTM D516-11, Chloride Ion by Method SM 4500-Cl E, Total Iron analyzed by EPA Method 6010D, Ferrous Iron analyzed by Method SM3500-Fe B, and Biological Oxygen Demand analyzed by Method SM5210B.

[5] Stabilized groundwater parameters are reported that represent conditions during the time of sample collection.

[6] Digital and manual Hach Colorimeter (by Method 8146) used for sampling events between June 2023 and September 2024. Samples collected during June and August 2022 events were analyzed by Method SM 3500-Fe at OnSite Environmental, Inc. The March 2023 ferrous iron data is not reported due to field equipment malfunction.

[7] Dehalococcoides was analyzed using the CENSUS® method in 2023 and QuantArray-Chlor in 2024 at Microbial Insights Laboratory in Knoxville, Tennessee. See full report in Appendix C.

[8] MTCA Method A Cleanup Levels and standard Method B Screening Levels (SLs) from Ecology's "Cleanup Levels and Risk Calculations (CLARC) Master Spreadsheet.xlsx" table dated February 2025. See Section 6.0 for additional information.

[9] Based on "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater" (EPA, September 1998). DHC criteria based on guidance from Microbial Insights.

[10] Chloride background established based on the results of groundwater samples collected from well FL358-MW8.

[11] Split sample analyzed by North Creek Analytical.

[12] Chemical analytical data package not provided in the 1994 groundwater reports obtained from Ecology. The chemical laboratory practical quantitation limits are not known.

-- = not analyzed

> Greater than

µg/L = micrograms per liter

C = Celsius

DHC = dehalococcoides

g/L = grams per liter

mg/L = milligrams per liter

mV = millivolts

N = Nitrogen

N/A = not applicable

NTU = Nephelometric Turbidity Unit

Temp = temporary well

B = Result is shown as estimated because laboratory QC testing did not meet standards. The concentration presented is biased high due to potential cross contamination indicated by low-level PCE detections in the rinsate samples. Flag applied by Shannon & Wilson.

J = Estimated result due to quality control failures. Flag applied by Shannon & Wilson for the 2022 events. Flag applied by GeoEngineers for 2023 and 2025 events.

JL = Estimated result, biased low, due to quality control failures. Flag applied by Shannon & Wilson.

U = Analyte was not detected above the Practical Quantitation Limit (PQL)

Bold indicates analyte was detected above the PQL.

Italicized indicates analyte was not detected, but the PQL was greater than the preliminary cleanup level.

Shading indicates analyte was detected at a concentration greater than the preliminary cleanup level.

Shading indicates aquifer conditions are favorable for anaerobic dechlorination.

Shading indicates dissolved oxygen indicates the aerobic aquifer are favorable for dechlorination of vinyl chloride.

Table 5

Soil Chemical Analytical Data of Samples Remaining In Place as of 2025

Y Pay Mor Site Updated RI Addendum No. 1

Federal Way, Washington

Location ID[1]	Sample ID	Sample Date	Current Surface Condition	Start Depth (feet bgs)	Ground Surface Elevation at Time of Sampling[3]	Sample Elevation[3] (feet)	Approximate Design Ground Surface (feet)[4]	Approximate Sample Depth Below the Design Ground Surface (feet)[5]	VOCs[2] (mg/kg)					
									PCE Breakdown Products					
									Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
				Soil Preliminary Cleanup Levels[6] (mg/kg)					0.05	0.03	0.0052	0.032	0.0025	0.001
1992 Preliminary Remedial Investigation (RZA Agra 1992)														
Y Pay Mor-MW2	B5-S4	08/31/1992	Concrete	10	428	418	437	19	*6 U*	*6 U*	*6 U*	*6 U*	--	*12 U*
	B5-S8	08/31/1992		20	428	408	437	29	*6 U*	*6 U*	*6 U*	*6 U*	--	*11 U*
Y Pay Mor-MW3	B11_S-3	10/27/1992	Concrete	7.5	424.8	417.3	433	16	*6 U*	*6 U*	*6 U*	*6 U*	--	*12 U*
	B11_S-5	10/27/1992		12.5	424.8	412.3	433	21	*6 U*	*6 U*	*6 U*	*6 U*	--	*11 U*
	B11_S-6	10/27/1992		15	424.8	409.8	433	23	*6 U*	*6 U*	*6 U*	*6 U*	--	*11 U*
2017 Phase II ESA (GeoEngineers 2017)														
FL358-B1	FL358-B1-13-14	10/05/2017	Concrete	13	423.5	410.5	437	27	**0.066**	**0.0022**	**0.0043**	0.00080 U	0.00080 U	0.00080 U
FL358-B3	FL358-B3-5-6	10/05/2017	Concrete	5	425.6	420.6	434	13	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U
	FL358-B3-7-8	10/05/2017		7	425.6	418.6	434	15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	*0.0012 U*
	FL358-B3-12-13	10/05/2017		12	425.6	413.6	434	20	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	*0.0019 U*
FL358-MW1	FL358-MW1-1.5-2.5	10/02/2017	Concrete	1.5	425.59	424.09	436	12	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U
	FL358-MW1-5-6	10/02/2017		5	425.59	420.59	436	15	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U
	FL358-MW1-12-13	10/02/2017		12	425.59	413.59	436	22	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U
	FL358-MW1-19-20	10/02/2017		19	425.59	406.59	436	29	**0.0049**	**0.0033**	**0.0016**	0.00084 U	0.00084 U	0.00084 U
FL358-MW2	FL358-MW2-1.5-2.5	10/02/2017	Concrete	1.5	425.37	423.87	436	12	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	*0.0011 U*
	FL358-MW2-9-10	10/02/2017		9	425.37	416.37	436	20	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U
	FL358-MW2-13-14	10/02/2017		13	425.37	412.37	436	24	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U
FL358-MW3	FL358-MW3-4-5	10/03/2017	Concrete	4	425.55	422	434	12	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U
	FL358-MW3-7-8	10/03/2017		7	425.55	419	434	15	0.00089 U	0.00089 U	0.00089 U	0.00089 U	0.00089 U	0.00089 U
	FL358-MW3-11-12	10/03/2017		11	425.55	415	434	19	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U
FL358-MW4	FL358-MW4-6.5-7.5	10/03/2017	Concrete	6.5	424.34	417.84	433	15	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	FL358-MW4-8.5-9.5	10/03/2017		8.5	424.34	415.84	433	17	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	*0.0012 U*
2020 Interim Action Borings and Potholes (OSG 2021)														
358-B1	358-B1-10	05/07/2020	Concrete	10	425.37	415.37	436	21	0.028 U	0.0224 U	*0.0224 U*	0.0224 U	*0.0224 U*	*0.028 U*
	358-B1-20	05/07/2020		20	425.37	405	436	31	0.0224 U	0.0179 U	*0.0179 U*	0.0179 U	*0.0179 U*	*0.0224 U*
358-B2	358-B2-12.5	05/07/2020	Concrete	12	426.95	414.95	437	22	0.0317 U	0.0253 U	*0.0253 U*	0.0253 U	*0.0253 U*	*0.0317 U*
	358-B2-25	05/07/2020		25	426.95	401.95	437	35	0.0297 U	0.0238 U	*0.0238 U*	0.0238 U	*0.0238 U*	*0.0297 U*
358-B3	358-B3-10	05/07/2020	Concrete	10	423	413	437	24	0.0254 U	0.0204 U	*0.0204 U*	0.0204 U	*0.0204 U*	*0.0254 U*
	358-B3-12.5	05/07/2020		12.5	423	410.5	437	27	**0.083**	0.0196 U	**0.0235**	0.0196 U	*0.0196 U*	*0.0244 U*
	358-B3-15	05/07/2020		15	423	408	437	29	**0.121**	**0.0379**	**0.0669**	0.0171 U	*0.0171 U*	*0.0214 U*
	358-B3-20	05/07/2020		20	423	403	437	34	**0.0384**	0.0189 U	*0.0189 U*	0.0189 U	*0.0189 U*	*0.0236 U*
358-B4	358-B4-15	05/08/2020	Concrete	15	427	412	437	25	0.0344 U	0.0275 U	*0.0275 U*	0.0275 U	*0.0275 U*	*0.0344 U*
	358-B4-20	05/08/2020		20	427	407	437	30	0.0294 U	0.0235 U	*0.0235 U*	0.0235 U	*0.0235 U*	*0.0294 U*

Location ID[1]	Sample ID	Sample Date	Current Surface Condition	Start Depth (feet bgs)	Ground Surface Elevation at Time of Sampling[3]	Sample Elevation[3] (feet)	Approximate Design Ground Surface (feet)[4]	Approximate Sample Depth Below the Design Ground Surface (feet)[5]	VOCs[2] (mg/kg)					
									PCE Breakdown Products					
									Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
				Soil Preliminary Cleanup Levels[6] (mg/kg)					0.05	0.03	0.0052	0.032	0.0025	0.001
358-B5	358-B5-2.5	05/08/2020	Concrete	2.5	426.37	423.87	436	12	0.0382 U	*0.0306 U*	*0.0306 U*	0.0306 U	*0.0306 U*	*0.0382 U*
	358-B5-5	05/08/2020		5	426.37	421.37	436	15	0.0321 U	0.0257 U	**0.081**	0.0257 U	*0.0257 U*	*0.0321 U*
	358-B5-10	05/08/2020		10	426.37	416.37	436	20	0.0281 U	0.0225 U	*0.0225 U*	0.0225 U	*0.0225 U*	*0.0281 U*
	358-B5-15	05/08/2020		15	426.37	411.37	436	25	0.0275 U	0.022 U	*0.022 U*	0.022 U	*0.022 U*	*0.0275 U*
	358-B5-20	05/08/2020		20	426.37	406.37	436	30	**0.358**	0.0188 U	*0.0188 U*	0.0188 U	*0.0188 U*	*0.0234 U*
	358-B5-25	05/08/2020		25	426.37	401.37	436	35	**0.123**	0.0236 U	*0.0236 U*	0.0236 U	*0.0236 U*	*0.0295 U*
358-B6	358-B6-5	05/08/2020	Concrete	5	426.37	421.37	436	15	0.0395 U	*0.0316 U*	**0.0949**	0.0316 U	*0.0316 U*	*0.0395 U*
	358-B6-10	05/08/2020		10	426.37	416.37	436	20	0.0233 U	0.0187 U	*0.0187 U*	0.0187 U	*0.0187 U*	*0.0233 U*
	358-B6-20	05/08/2020		20	426.37	406.37	436	30	**0.0269**	0.0197 U	*0.0197 U*	0.0197 U	*0.0197 U*	*0.0246 U*
358-B7	358-B7-10	05/11/2020	Concrete	10	426.37	416.37	435	19	0.0218 U	0.0174 U	*0.0174 U*	0.0174 U	*0.0174 U*	*0.0218 U*
	358-B7-20	05/11/2020		20	426.37	406.37	435	29	0.0213 U	0.017 U	**0.0245**	0.017 U	*0.017 U*	*0.0213 U*
358-B8	358-B8-12.5	05/11/2020	Concrete	12.5	426.37	413.87	435	21	0.0249 U	0.0199 U	*0.0199 U*	0.0199 U	*0.0199 U*	*0.0249 U*
	358-B8-20	05/11/2020		20	426.37	406.37	435	29	0.0305 U	0.0244 U	*0.0244 U*	0.0244 U	*0.0244 U*	*0.0305 U*
358-B9	358-B9-2.5	05/11/2020	Concrete	2.5	426.15	423.65	434	10	0.0396 U	*0.0317 U*	*0.0317 U*	0.0317 U	*0.0317 U*	*0.0396 U*
	358-B9-7.5	05/11/2020		7.5	426.15	418.65	434	15	0.0124 U	0.00989 U	0.00989 U	0.00989 U	0.00989 U	*0.0124 U*
	358-B9-12.5	05/11/2020		12.5	426.15	413.65	434	20	0.0219 U	0.0175 U	*0.0175 U*	0.0175 U	*0.0175 U*	*0.0219 U*
	358-B9-20	05/11/2020		20	426.15	406.15	434	28	0.0276 U	0.0221 U	*0.0221 U*	0.0221 U	*0.0221 U*	*0.0276 U*
358-B10	358-B10-0.5	06/09/2020	Concrete	0.5	425.62	425.12	436	11	0.0282 U	0.0226 U	*0.0226 U*	0.0226 U	*0.0226 U*	*0.0282 U*
	358-B10-25	06/09/2020		25	425.62	400.62	436	35	0.0122 U	0.00976 U	0.00976 U	0.00976 U	0.00976 U	*0.0122 U*
	358-B10-30	06/09/2020		30	425.62	395.62	436	40	0.0227 U	0.0182 U	*0.0182 U*	0.0182 U	*0.0182 U*	*0.0227 U*
	358-B10-35	06/09/2020		35	425.62	390.62	436	45	0.0209 U	0.0167 U	*0.0167 U*	0.0167 U	*0.0167 U*	*0.0209 U*
	358-B10-40	06/09/2020		40	425.62	385.62	436	50	0.0224 U	0.0179 U	*0.0179 U*	0.0179 U	*0.0179 U*	*0.0224 U*
	358-B10-45	06/09/2020		45	425.62	380.62	436	55	0.0262 U	0.0209 U	*0.0209 U*	0.0209 U	*0.0209 U*	*0.0262 U*
	358-B10-50	06/09/2020		50	425.62	375.62	436	60	0.0311 U	0.0249 U	*0.0249 U*	0.0249 U	*0.0249 U*	*0.0311 U*
358-B11	358-B11-1	06/10/2020	Unpaved	1	425.06	424.06	437	13	0.0199 U	0.0159 U	*0.0159 U*	0.0159 U	*0.0159 U*	*0.0199 U*
	358-B11-2.5	06/10/2020		2.5	425.06	422.56	437	14	0.0368 U	0.0294 U	*0.0294 U*	0.0294 U	*0.0294 U*	*0.0368 U*
	358-B11-10	06/10/2020		10	425.06	415.06	437	22	0.0235 U	0.0188 U	*0.0188 U*	0.0188 U	*0.0188 U*	*0.0235 U*
	358-B11-25	06/10/2020		25	425.06	400.06	437	37	0.0279 U	0.0223 U	*0.0223 U*	0.0223 U	*0.0223 U*	*0.0279 U*
358-B12	358-B12-15	06/10/2020	Concrete	15	425.74	410.74	437	26	**0.387**	**0.0612**	*0.0186 U*	0.0186 U	*0.0186 U*	*0.0232 U*
	358-B12-25	06/10/2020		25	425.74	400.74	437	36	**0.0600**	0.027 U	*0.027 U*	0.027 U	*0.027 U*	*0.0338 U*
	358-B12-30	06/10/2020		30	425.74	395.74	437	41	0.0254 U	0.0203 U	*0.0203 U*	0.0203 U	*0.0203 U*	*0.0254 U*
358-B13	358-B13-2.5	06/11/2020	Concrete	2.5	425.51	423.01	434	11	0.0328 U	0.0263 U	*0.0263 U*	0.0263 U	*0.0263 U*	*0.0328 U*
	358-B13-10	06/11/2020		10	425.51	415.51	434	18	0.0286 U	0.0229 U	*0.0229 U*	0.0229 U	*0.0229 U*	*0.0286 U*
	358-B13-20	06/11/2020		20	425.51	405.51	434	31	0.0233 U	0.0187 U	*0.0187 U*	0.0187 U	*0.0187 U*	*0.0233 U*
	358-B13-25	06/11/2020		25	425.51	400.51	434	33	0.0227 U	0.0182 U	*0.0182 U*	0.0182 U	*0.0182 U*	*0.0227 U*
358-B14	358-B14-7.5	06/11/2020	Concrete	7.5	426.47	418.97	437	18	0.0216 U	0.0173 U	*0.0173 U*	0.0173 U	*0.0173 U*	*0.0216 U*
	358-B14-10	06/11/2020		10	426.47	416.47	437	21	0.0225 U	0.018 U	*0.018 U*	0.018 U	*0.018 U*	*0.0225 U*
	358-B14-12.5	06/11/2020		12.5	426.47	413.97	437	23	0.0316 U	0.0253 U	*0.0253 U*	0.0253 U	*0.0253 U*	*0.0316 U*
	358-B14-15	06/11/2020		15	426.47	411.47	437	26	0.0387 U	0.031 U	*0.031 U*	0.031 U	*0.031 U*	*0.0387 U*
	358-B14-20	06/11/2020		20	426.47	406.47	437	31	0.0249 U	0.0199 U	*0.0199 U*	0.0199 U	*0.0199 U*	*0.0249 U*
	358-B14-25	06/11/2020		25	426.47	401.47	437	36	0.0292 U	0.0233 U	*0.0233 U*	0.0233 U	*0.0233 U*	*0.0292 U*

Location ID[1]	Sample ID	Sample Date	Current Surface Condition	Start Depth (feet bgs)	Ground Surface Elevation at Time of Sampling[3]	Sample Elevation[3] (feet)	Approximate Design Ground Surface (feet)[4]	Approximate Sample Depth Below the Design Ground Surface (feet)[5]	VOCs[2] (mg/kg)					
									PCE Breakdown Products					
									Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
				Soil Preliminary Cleanup Levels[6] (mg/kg)					0.05	0.03	0.0052	0.032	0.0025	0.001
358-B15	358-B15-1	06/11/2020	Unpaved	1	425.61	424.61	436	11	0.0251 U	0.02 U	*0.02 U*	0.02 U	*0.02 U*	*0.0251 U*
	358-B15-5	06/11/2020		5	425.61	420.61	436	15	0.0342 U	0.0274 U	*0.0274 U*	0.0274 U	*0.0274 U*	*0.0342 U*
	358-B15-10	06/11/2020		10	425.61	415.61	436	20	0.0217 U	0.0174 U	*0.0174 U*	0.0174 U	*0.0174 U*	*0.0217 U*
	358-B15-20	06/11/2020		20	425.61	405.61	436	30	0.0168 U	0.0134 U	*0.0134 U*	0.0134 U	*0.0134 U*	*0.0168 U*
	358-B15-25	06/11/2020		25	425.61	400.61	436	35	0.0275 U	0.022 U	**0.0380**	0.022 U	*0.022 U*	*0.0275 U*
358-PH1	358-PH1-10	06/09/2020	Concrete	10	426	416	435	19	0.0226 U	0.018 U	*0.018 U*	0.018 U	*0.018 U*	*0.0226 U*
358-PH2	358-PH2-10	06/10/2020	Concrete	10	426	416	435	19	0.0318 U	0.0255 U	*0.0255 U*	0.0255 U	*0.0255 U*	*0.0318 U*
358-PH3	358-PH3-10	06/09/2020	Concrete	10	426	416	435	19	0.0261 U	0.0209 U	**0.0407**	0.0209 U	*0.0209 U*	*0.0261 U*
358-PH4	358-PH4-10	06/09/2020	Concrete	10	426	416	435	19	0.0287 U	0.023 U	*0.023 U*	0.023 U	*0.023 U*	*0.0287 U*
358-PH5	358-PH5-4	06/10/2020	Concrete	4	426	422	436	14	0.0269 U	0.0215 U	*0.0215 U*	0.0215 U	*0.0215 U*	*0.0269 U*
	358-PH5-7	06/10/2020		7	426	419	436	17	0.0495 U	*0.0396 U*	*0.0396 U*	*0.0396 U*	*0.0396 U*	*0.0495 U*
	358-PH5-10	06/10/2020		10	426	416	436	20	0.0281 U	0.0225 U	*0.0225 U*	0.0225 U	*0.0225 U*	*0.0281 U*
358-PH6	358-PH6-1	06/10/2020	Concrete	1	426	425	436	11	0.0291 U	0.0233 U	*0.0233 U*	0.0233 U	*0.0233 U*	*0.0291 U*
	358-PH6-2	06/10/2020		2	426	424	436	12	0.0251 U	0.0201 U	*0.0201 U*	0.0201 U	*0.0201 U*	*0.0251 U*
	358-PH6-4	06/10/2020		4	426	422	436	14	0.0262 U	0.0209 U	*0.0209 U*	0.0209 U	*0.0209 U*	*0.0262 U*
	358-PH6-7	06/10/2020		7	426	419	436	17	0.0293 U	0.0235 U	*0.0235 U*	0.0235 U	*0.0235 U*	*0.0293 U*
	358-PH6-10	06/10/2020		10	426	416	436	20	0.0326 U	0.026 U	**0.0554**	0.026 U	*0.026 U*	*0.0326 U*
358-PH7	358-PH7-12	06/10/2020	Concrete	12	422	410	437	27	**1.95**	**0.0968**	**0.186**	0.0264 U	*0.0264 U*	*0.0331 U*
	358-PH7-15	06/10/2020		15	422	407	437	30	**10.1**	**0.403**	**0.757**	*0.0329 U*	*0.0329 U*	*0.0411 U*
2020 Interim Action - Southern Excavation Confirmation Samples (OSG 2021)														
358-PEX-10	358-PEX-10-1	07/20/2020	Concrete	1	426	425	435	10	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-11	358-PEX-11-6	07/20/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-13	358-PEX-13-6	07/20/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-15	358-PEX-15-6	07/20/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	**0.037**	0.02 U	*0.05 U*	*0.02 U*
358-PEX-29	358-PEX-29-8	07/21/2020	Concrete	8	426	418	435	17	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-30	358-PEX-30-8	07/21/2020	Concrete	8	426	418	435	17	**0.030**	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-41	358-PEX-41-1	07/21/2020	Concrete	1	426	425	435	10	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-42	358-PEX-42-6	07/21/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-45	358-PEX-45-1	07/22/2020	Concrete	1	426	425	435	10	**0.042**	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-46	358-PEX-46-1	07/22/2020	Concrete	1	426	425	435	10	**0.020**	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-54	358-PEX-54-10	07/23/2020	Concrete	10	426	416	435	19	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-55	358-PEX-55-10	07/23/2020	Concrete	10	426	416	435	19	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-56	358-PEX-56-6	07/23/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-57	358-PEX-57-6	07/23/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	**0.062**	0.02 U	*0.05 U*	*0.02 U*
358-PEX-58	358-PEX-58-6	07/23/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-59	358-PEX-59-10	07/23/2020	Concrete	10	426	416	435	19	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-60	358-PEX-60-8	07/23/2020	Concrete	8	426	418	435	17	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-61	358-PEX-61-6	07/23/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-62	358-PEX-62-2	07/23/2020	Concrete	2	426	424	435	11	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-63	358-PEX-63-2	07/23/2020	Concrete	2	426	424	435	11	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*

Location ID[1]	Sample ID	Sample Date	Current Surface Condition	Start Depth (feet bgs)	Ground Surface Elevation at Time of Sampling[3]	Sample Elevation[3] (feet)	Approximate Design Ground Surface (feet)[4]	Approximate Sample Depth Below the Design Ground Surface (feet)[5]	VOCs[2] (mg/kg)					
									PCE Breakdown Products					
									Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
				Soil Preliminary Cleanup Levels[6] (mg/kg)					0.05	0.03	0.0052	0.032	0.0025	0.001
358-PEX-64	358-PEX-64-6	07/23/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-66	358-PEX-66-2	07/23/2020	Concrete	2	426	424	435	11	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-67	358-PEX-67-2	07/23/2020	Concrete	2	426	424	435	11	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-68	358-PEX-68-9	07/23/2020	Concrete	9	426	417	435	18	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-70	358-PEX-70-6	07/23/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	**0.062**	0.02 U	*0.05 U*	*0.02 U*
358-PEX-71	358-PEX-71-6	07/23/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	**0.037**	0.02 U	*0.05 U*	*0.02 U*
358-PEX-76	358-PEX-76-6	07/24/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-77	358-PEX-77-1	07/24/2020	Concrete	1	426	425	435	10	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-80	358-PEX-80-6	07/27/2020	Concrete	6	426	420	435	15	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-81	358-PEX-81-8	07/27/2020	Concrete	8	426	418	435	17	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
SS-1-1.5	SS-1-1.5	08/14/2020	Concrete	1.5	426	424.5	435	11	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
SS-2-1.5	SS-2-1.5	08/14/2020	Concrete	1.5	426	424.5	435	11	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
SS-3-2.5	SS-3-2.5	08/14/2020	Concrete	2.5	426	423.5	435	12	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
2020 Interim Action - Northern Excavation Confirmation Samples (OSG 2021)														
358-PEX-6	358-PEX-6-4	07/16/2020	Concrete	4	423	419	437	18	0.03 U	0.02 U	*0.03 U*	0.03 U	*0.05 U*	*0.02 U*
358-PEX-20	358-PEX-20-11	07/20/2020	Concrete	11	423	412	437	25	**9.33**	**0.029**	**0.049**	0.02 U	*0.05 U*	*0.02 U*
358-PEX-22	358-PEX-22-11	07/21/2020	Concrete	11	423	412	437	25	**1.3**	**0.12**	**0.17**	0.02 U	*0.05 U*	*0.02 U*
358-PEX-32	358-PEX-32-10	07/21/2020	Concrete	10	423	413	437	24	**0.36**	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-33	358-PEX-33-7	07/21/2020	Concrete	7	423	416	437	21	**0.035**	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-34	358-PEX-34-10	07/21/2020	Concrete	10	423	413	437	24	**0.038**	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-35	358-PEX-35-10	07/21/2020	Concrete	10	423	413	437	24	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-49	358-PEX-49-11	07/22/2020	Concrete	11	425	414	437	23	**0.14**	**0.024**	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-50	358-PEX-50-4	07/22/2020	Concrete	4	426	422	437	15	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-51	358-PEX-51-10	07/22/2020	Concrete	10	426	416	437	21	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-79	358-PEX-79-10	07/24/2020	Concrete	10	425	415	437	22	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-83	358-PEX-83-10	07/28/2020	Concrete	10	425	415	437	22	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-84	358-PEX-84-10	07/28/2020	Concrete	10	425	415	437	22	**0.028**	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-85	358-PEX-85-10	07/28/2020	Concrete	10	425	415	437	22	**1.1**	**0.099**	**0.042**	0.02 U	*0.05 U*	*0.02 U*
358-PEX-86	358-PEX-86-10	07/28/2020	Concrete	10	425	415	437	22	**0.39**	**0.037**	**0.034**	0.02 U	*0.05 U*	*0.02 U*
358-PEX-87	358-PEX-87-10	07/28/2020	Concrete	10	425	415	437	22	**0.33**	**0.028**	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-88	358-PEX-88-10	07/28/2020	Concrete	10	426	416	437	21	**0.029**	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-89	358-PEX-89-10	07/28/2020	Concrete	10	426	416	437	21	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-91	358-PEX-91-11	07/31/2020	Concrete	11	425	414	437	23	**0.58**	**0.091**	**0.082**	0.02 U	*0.05 U*	*0.02 U*
358-PEX-92	358-PEX-92-10	07/31/2020	Concrete	10	425	415	437	22	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-93	358-PEX-93-10	07/31/2020	Unpaved	10	425	415	437	22	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-95	358-PEX-95-10	07/31/2020	Concrete	10	423	413	437	24	**0.13**	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-96	358-PEX-96-10	07/31/2020	Concrete	10	423	413	437	24	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-97	358-PEX-97-11	08/03/2020	Concrete	11	424	413	437	24	**0.12**	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-98	358-PEX-98-10	08/03/2020	Concrete	10	424	414	437	23	**0.076**	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-99	358-PEX-99-10	08/03/2020	Concrete	10	424	414	437	23	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*

Location ID[1]	Sample ID	Sample Date	Current Surface Condition	Start Depth (feet bgs)	Ground Surface Elevation at Time of Sampling[3]	Sample Elevation[3] (feet)	Approximate Design Ground Surface (feet)[4]	Approximate Sample Depth Below the Design Ground Surface (feet)[5]	VOCs[2] (mg/kg)					
									PCE Breakdown Products					
									Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
				Soil Preliminary Cleanup Levels[6] (mg/kg)					0.05	0.03	0.0052	0.032	0.0025	0.001
358-PEX-100	358-PEX-100-6	08/03/2020	Concrete	6	424	418	437	19	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-101	358-PEX-101-11	08/04/2020	Concrete	11	426	415	437	22	**0.044**	**0.042**	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-102	358-PEX-102-10	08/04/2020	Concrete	10	426	416	437	21	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-103	358-PEX-103-6	08/04/2020	Concrete	6	426	420	437	17	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PEX-104	358-PEX-104-7	08/05/2020	Concrete	7	424	417	437	20	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
358-PH105	358-PH105-10	08/27/2020	Concrete	10	424	414	437	23	0.02 U	0.02 U	*0.02 U*	0.02 U	*0.05 U*	*0.02 U*
2022 Remedial Investigation (SWI 2022)														
FL358-MW5A	FL358-MW5A-23-24	06/22/2022	Concrete	23	435.5	412.5	437	24	**0.41**	**0.0091**	**0.0081**	0.00075 U	0.00075 U	0.00075 U
	FL358-MW5A-25-26	06/22/2022		25	435.5	410.5	437	26	**150**	**0.44**	**0.25**	*0.048 U*	*0.048 U*	*0.048 U*
FL358-MW5B	FL358-MW5-21.5-22.5	06/21/2022	Concrete	21.5	435.5	414	437	23	**0.028**	**0.0022**	**0.0018**	0.00078 U	0.00078 U	0.00078 U
	FL358-MW5-24.5-25.5	06/21/2022		24.5	435.5	411	437	26	**1.1**	**0.038**	**0.032**	0.00076 U	0.00076 U	0.00076 U
	FL358-MW5-28-29	06/21/2022		28	435.5	407.5	437	29	**11**	**0.34**	**0.27**	**0.0014**	0.00089 U	**0.0024**
	FL358-MW5-33-34	06/21/2022		33	435.5	402.5	437	34	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U
	FL358-MW5-36-37	06/21/2022		36	435.5	399.5	437	37	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U
	FL358-MW5-37-38	06/21/2022		37	435.5	398.5	437	38	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U
FL358-MW6	FL358-MW6-24-25	06/21/2022	Concrete	24	435.73	411.73	436	25	**0.10**	**0.016**	**0.039**	0.00042 U	0.00042 U	**0.0025**
	DUP-220616	06/16/2022		24	435.73	411.73	436	25	**0.16**	**0.021**	**0.048**	0.00085 U	0.00085 U	**0.0029**
	FL358-MW6-29-30	06/21/2022		29	435.73	406.73	436	30	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U
	FL358-MW6-34-35	06/21/2022		34	435.73	401.73	436	35	0.00089 U	0.00089 U	**0.0018**	0.00089 U	0.00089 U	0.00089 U
	FL358-MW6-36-37	06/21/2022		36	435.73	399.73	436	37	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U
	FL358-MW6-37-38	06/21/2022		37	435.73	398.73	436	38	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U
FL358-MW8	FL358-MW8-22-23	06/15/2022	Concrete	22	435.67	413.67	437	24	**0.0018**	0.00086 U	0.00086 U	0.00086 U	0.00086 U	0.00086 U
	FL358-MW8-27-28	06/15/2022		27	435.67	408.67	437	29	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U
	FL358-MW8-32-33	06/15/2022		32	435.67	403.67	437	34	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U
	FL358-MW8-36-37	06/16/2022		36	435.67	399.67	437	38	0.00086 U	0.00086 U	0.00086 U	0.00086 U	0.00086 U	0.00086 U
	FL358-MW8-37-38	06/16/2022		37	435.67	398.67	437	39	0.00086 U	0.00086 U	0.00086 U	0.00086 U	0.00086 U	0.00086 U
FL358-MW9	FL358-MW9-22-23	06/16/2022	Concrete	22	435.41	413.41	436	22	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U
	FL358-MW9-27-28	06/16/2022		27	435.41	408.41	436	27	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U
	DUP-220621	06/21/2022		27	435.41	408.41	436	27	0.00074 U	0.00074 U	0.00074 U	0.00074 U	0.00074 U	0.00074 U
	FL358-MW9-31-32	06/16/2022		31	435.41	404.41	436	31	0.00088 U	0.00088 U	**0.017**	0.00088 U	0.00088 U	0.00088 U
	FL358-MW9-37-38	06/16/2022		37	435.41	398.41	436	37	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U
	FL358-MW9-40-41	06/16/2022		40	435.41	395.41	436	40	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U
	FL358-MW9-41-42	06/16/2022		41	435.41	394.41	436	41	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U
FL358-MW14	FL358-MW14-23-24	06/15/2022	Concrete	23	434.44	411.44	435	24	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U
	FL358-MW14-28-29	06/15/2022		28	434.44	406.44	435	29	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U
	FL358-MW14-33-34	06/15/2022		33	434.44	401.44	435	34	0.00074 U	0.00074 U	0.00074 U	0.00074 U	0.00074 U	0.00074 U
	FL358-MW14-37-38	06/15/2022		37	434.44	397.44	435	38	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U
	FL358-MW14-38.5-39.5	06/15/2022		38.5	434.44	395.94	435	39	0.00086 U	0.00086 U	0.00086 U	0.00086 U	0.00086 U	0.00086 U

Location ID[1]	Sample ID	Sample Date	Current Surface Condition	Start Depth (feet bgs)	Ground Surface Elevation at Time of Sampling[3]	Sample Elevation[3] (feet)	Approximate Design Ground Surface (feet)[4]	Approximate Sample Depth Below the Design Ground Surface (feet)[5]	VOCs[2] (mg/kg)					
									PCE Breakdown Products					
									Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
				Soil Preliminary Cleanup Levels[6] (mg/kg)					0.05	0.03	0.0052	0.032	0.0025	0.001
2024 to 2025 Remedial Investigation (GeoEngineers)														
FL358-MW15	FL358-MW15_27.5-29	09/12/2024	Unpaved	27.5	435.98	408.48	438	27.5	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U
	FL358-MW15_30-31.5	09/12/2024		30	435.98	405.98	438	30	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U
	FL358-MW15_35-36.5	09/12/2024		35	435.98	400.98	438	35	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U
	FL358-MW15_40-41.5	09/12/2024		40	435.98	395.98	438	40	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
FL358-MW17	FL358-MW17_27.5-28	09/10/2024	Unpaved	27.5	434.7	407.2	435	27.5	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U
	FL358-MW17_32.5-34	09/10/2024		32.5	434.7	402.2	435	32.5	0.0010 U	0.0010 U	**0.0011**	0.0010 U	0.0010 U	0.0010 U
	FL358-MW17_35-36	09/10/2024		35	434.7	399.7	435	35	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U
	FL358-MW17_40-41.5	09/10/2024		40	434.7	394.7	435	40	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U
FL358-MW18	FL358-MW18_20-21.5	09/12/2024	Concrete	20	431.08	411.08	432	20	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U
	FL358-MW18_25-26.5	09/12/2024		25	431.08	406.08	432	25	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U
	FL358-MW18_27.5-29	09/12/2024		27.5	431.08	403.58	432	27.5	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U
	FL358-MW18_30-31.5	09/12/2024		30	431.08	401.08	432	30	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U
	FL358-MW18_42.5-44	09/12/2024		42.5	431.08	388.58	432	42.5	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
FL358-MW23	FL358-MW23_24-25	12/19/2024	Unpaved	24	434.87	410.87	436	24	0.00095 UJ	0.00095 UJ	0.00095 UJ	0.00095 UJ	0.00095 UJ	0.00095 UJ
	FL358-MW23_29-30	12/19/2024		29	434.87	405.87	436	29	0.00096 UJ	0.00096 UJ	0.00096 UJ	0.00096 UJ	0.00096 UJ	0.00096 UJ
	FL358-MW23_33-34	12/19/2024		33	434.87	401.87	436	33	0.00093 UJ	0.00093 UJ	0.00093 UJ	0.00093 UJ	0.00093 UJ	0.00093 UJ
FL358-MW24	FL358-MW24_23-24	12/19/2024	Unpaved	23	431.72	408.72	432	23	0.00081 UJ	0.00081 UJ	0.00081 UJ	0.00081 UJ	0.00081 UJ	0.00081 UJ
	FL358-MW24_29.5-30	12/19/2024		29.5	431.72	402.22	432	29.5	0.00087 UJ	0.00087 UJ	0.00087 UJ	0.00087 UJ	0.00087 UJ	0.00087 UJ
	FL358-MW24_34-35	12/19/2024		34	431.72	397.72	432	34	0.0016 UJ	0.0016 UJ	0.0016 UJ	0.0016 UJ	0.0016 UJ	0.0016 UJ
FL358-MW25	FL358-MW25_24-25	12/18/2024	Unpaved	24	431.31	407.31	435	24	0.00044 U	0.00044 U	0.00044 U	0.00044 U	0.00044 U	0.00044 U
	FL358-MW25_34-35	12/18/2024		34	431.31	397.31	435	34	0.00054 U	0.00054 U	0.00054 U	0.00054 U	0.00054 U	0.00054 U
	FL358-MW25_37-37.5	12/18/2024		37	431.31	394.31	435	37	0.00060 U	0.00060 U	0.00060 U	0.00060 U	0.00060 U	0.00060 U
FL358-MW26	FL358-MW26_24-25	12/17/2024	Unpaved	24	434.19	410.19	435	24	0.00056 U	0.00056 U	0.00056 U	0.00056 U	0.00056 U	0.00056 U
	FL358-MW26_37-37.5	12/17/2024		37	434.19	397.19	435	37	0.00056 U	0.00056 U	0.00056 U	0.00056 U	0.00056 U	0.00056 U
	FL358-MW26_39-40	12/17/2024		39	434.19	395.19	435	39	0.00052 U	0.00052 U	0.00052 U	0.00052 U	0.00052 U	0.00052 U
FL358-MW27	FL358-MW27_24-25	12/17/2024	Unpaved	24	432.04	408.04	433	24	0.00053 U	0.00053 U	0.00053 U	0.00053 U	0.00053 U	0.00053 U
	FL358-MW27_27-27.5	12/17/2024		27	432.04	405.04	433	27	0.00059 U	0.00059 U	0.00059 U	0.00059 U	0.00059 U	0.00059 U
	FL358-MW27_32-32.5	12/17/2024		32	432.04	400.04	433	32	0.00052 U	0.00052 U	0.00052 U	0.00052 U	0.00052 U	0.00052 U
FL358-MW28	FL358-MW28_25-26	02/25/2025	Unpaved	25	423.81	398.81	424	25	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U
	FL358-MW28_29-30	02/25/2025		29	423.81	394.81	424	29	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U
FL358-MW29	FL358-MW29_10-11	02/24/2025	Unpaved	10	427.87	417.87	429	10	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	FL358-MW29_15-16	02/24/2025		15	427.87	412.87	429	15	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	FL358-MW29_20-21	02/24/2025		20	427.87	407.87	429	20	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U
	FL358-MW29_25-26	02/24/2025		25	427.87	402.87	429	25	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U
	FL358-MW29_29-30	02/24/2025		29	427.87	398.87	429	29	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U
FL358-MW30	FL358-MW30_20-21	02/25/2025	Unpaved	20	421.40	401.4	421	20	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U
	FL358-MW30_DUP	02/25/2025		20	421.40	401.4	421	20	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	FL358-MW30_29-30	02/25/2025		29	421.40	392.4	421	29	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U

See notes on page 7

Notes:

[1] Sample locations with exceedances are shown on Figure 13.

[2] Volatile organic compounds (VOCs) analyzed by United States Environmental Protection Agency (EPA) Method 8260.

[3] The elevation of the ground surface and/or the elevation of the sample at time of collection was updated from the 2023 Updated Remedial Investigation on select locations. The sample elevation is calculated by the ground surface elevation at the time of sampling minus the starting sample depth. Soil depths and elevations should be considered approximate within a vertical error range of +/- 2 feet due to variable former ground surface elevations and post- recent fill surface elevations between the exploration locations.

[4] Current ground surface of wells FL358-MW5A through FL358-MW14 is based on a survey provided by Kiewit. The design ground surface for other locations is interpolated based on the topography shown on the F200-CRE-06317A SUB PR 050000-027.001 IFC S3.15 FWTC Civil Design drawings. The design surface does correlate directly with the ground surface at time of drilling as shown on Table 1.

[5] The depth below the design ground surface is the calculated delta between the design ground surface elevation and the sample elevation.

[6] MTCA Method A Cleanup Levels and standard Method B Screening Levels (SLs) from Ecology's "Cleanup Levels and Risk Calculations (CLARC) Master Spreadsheet.xlsx" table dated February 2025. See Section 6.0 for additional information.

bgs = below ground surface

EPA = United States Environmental Protection Agency

ESA = environmental site assessment

mg/kg = milligrams per kilogram

PCE = tetrachloroethene

PH = supplemental test pit (pothole) investigation sample

PEX = post-excavation confirmation sample

SL = screening level

VOCs = volatile organic compounds

Vertical datum for elevation is feet NAVD88.

U = analyte was not detected above the Practical Quantitation Limit (PQL)

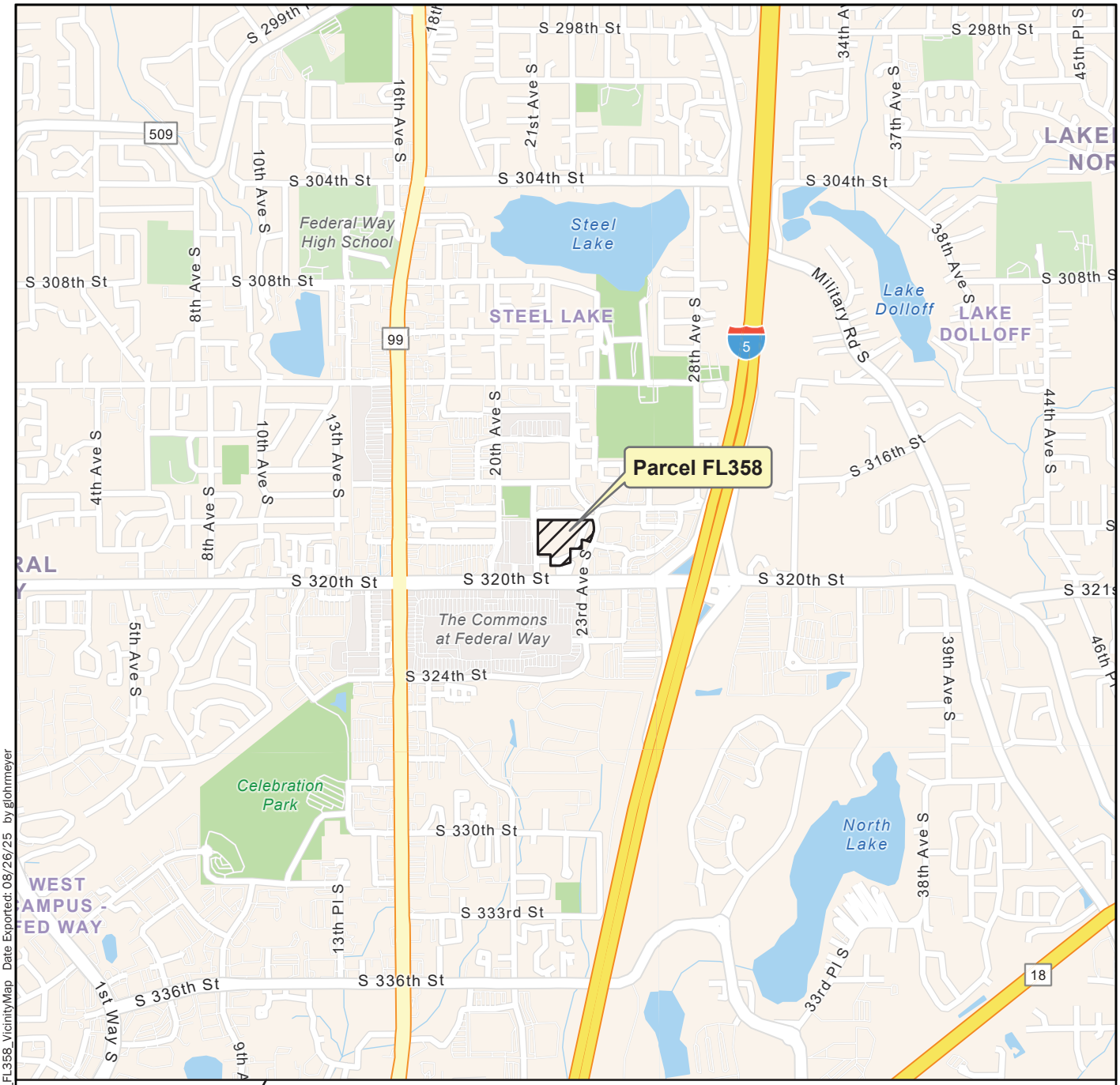
UJ = analyte was not detected above the PQL; the PQLs are qualified as estimates because the holding time for this analysis was exceeded

Bold indicates analyte was detected above the Practical Quantitation Limit (PQL).

Shading indicates analyte was detected at a concentration greater than the preliminary cleanup level.

Italicized indicates analyte was not detected, but the PQL was greater than the preliminary cleanup level.

Figures





0 2,000

Feet

Source(s):
- ESRI

Coordinate System: NAD 1983 UTM Zone 10N

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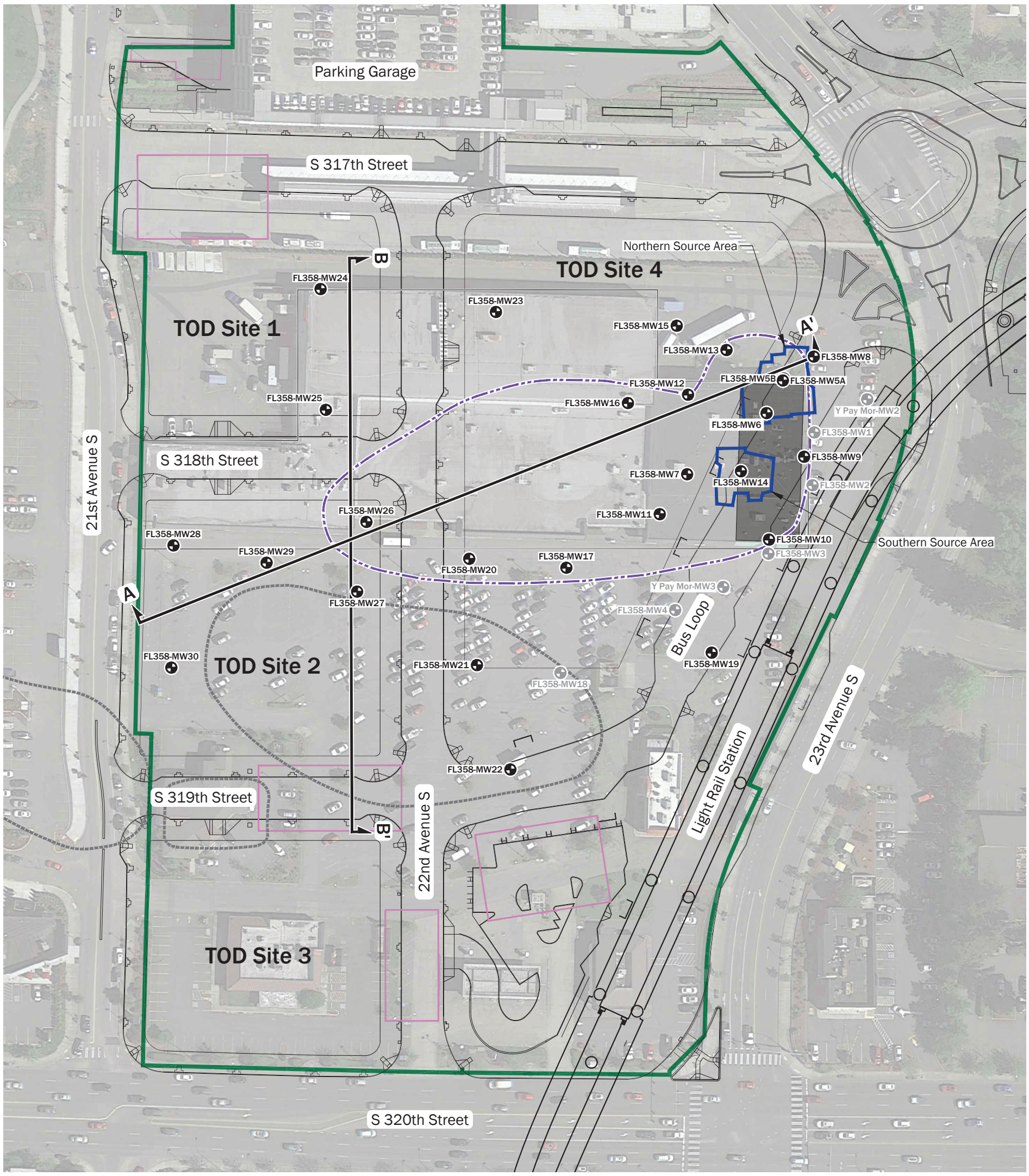
Vicinity Map

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure 1

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Legend

- Approximate Extent of Federal Way Downtown Station
- Approximate Extent of Y Pay Mor Site
- Former Y Pay Mor Cleaners (Space A-6)
- Former SeaTac Plaza Building
- Former Pond Extent
- Extent of 2020 Interim Action Excavation
- Stormwater Vault
- A — A' Cross Section Location
- Monitoring Well Location
- Decommissioned Monitoring Well

Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. Aerial photograph shows condition prior to construction of Federal Way Downtown Station
3. TOD = Transit Oriented Development

Data Sources:

- Aerial from Google Earth Pro dated 05/2019
- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons
- Wells FL358-MW23 to FL358-MW27 Surveyed by True North Land Surveying, INC, dated 12/20/24
- Wells FL358-MW28 to FL358-MW30 Surveyed by True North Land Surveying, INC, dated 3/3/25

Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.

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N

0 100

Feet

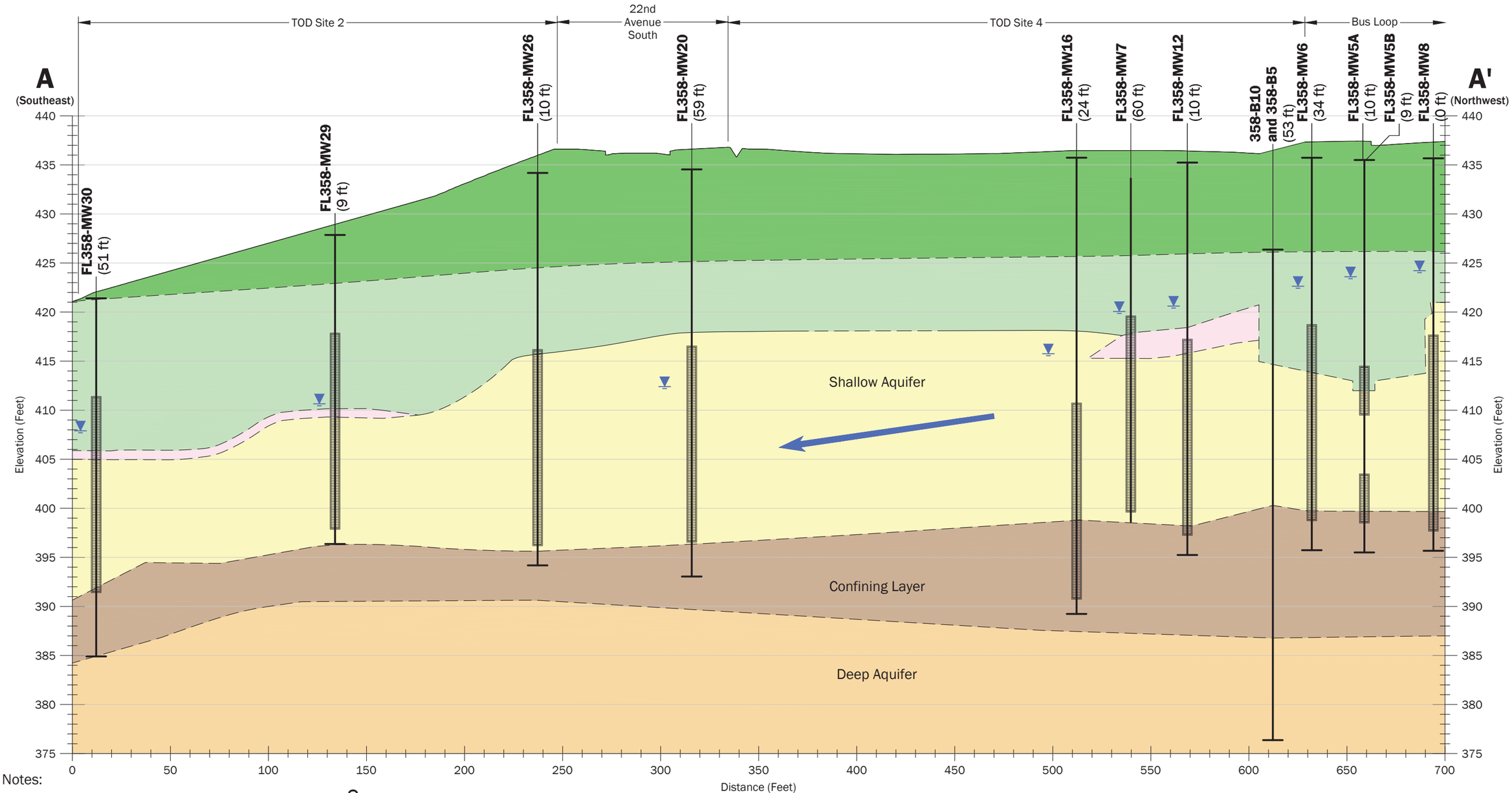
Site Plan

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure 2

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Notes:

1. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
2. TOD = transit oriented development
3. Groundwater levels for FL358-MW5B and FL358-MW26 are not shown because they are not representative.

Datum: NAVD1988 (North American Vertical Datum of 1988)

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Legend

- Boring (Boring ID (Offset))
- Inferred Soil Contact
- Shallow Aquifer Groundwater Level (Measured)
- Well Screen
- Shallow Aquifer Groundwater Flow

Lithology

- Fill Placed or Planned to Placed After 2020
- Fill Placed in the 1970s
- Organic Soil
- Silty Sand and Sandy Silt, Sand and Silt with Gravel (Glacial Lacustrine, Lacrustrine, Recessional Outwash, Weathered Till)
- Hard Silt with Gravel (Dense Glacial Till)
- Sand and Silt with Gravel (Advance Outwash)

0 50 Horizontal Feet

0 10 Vertical Feet

Vertical Exaggeration = 5X

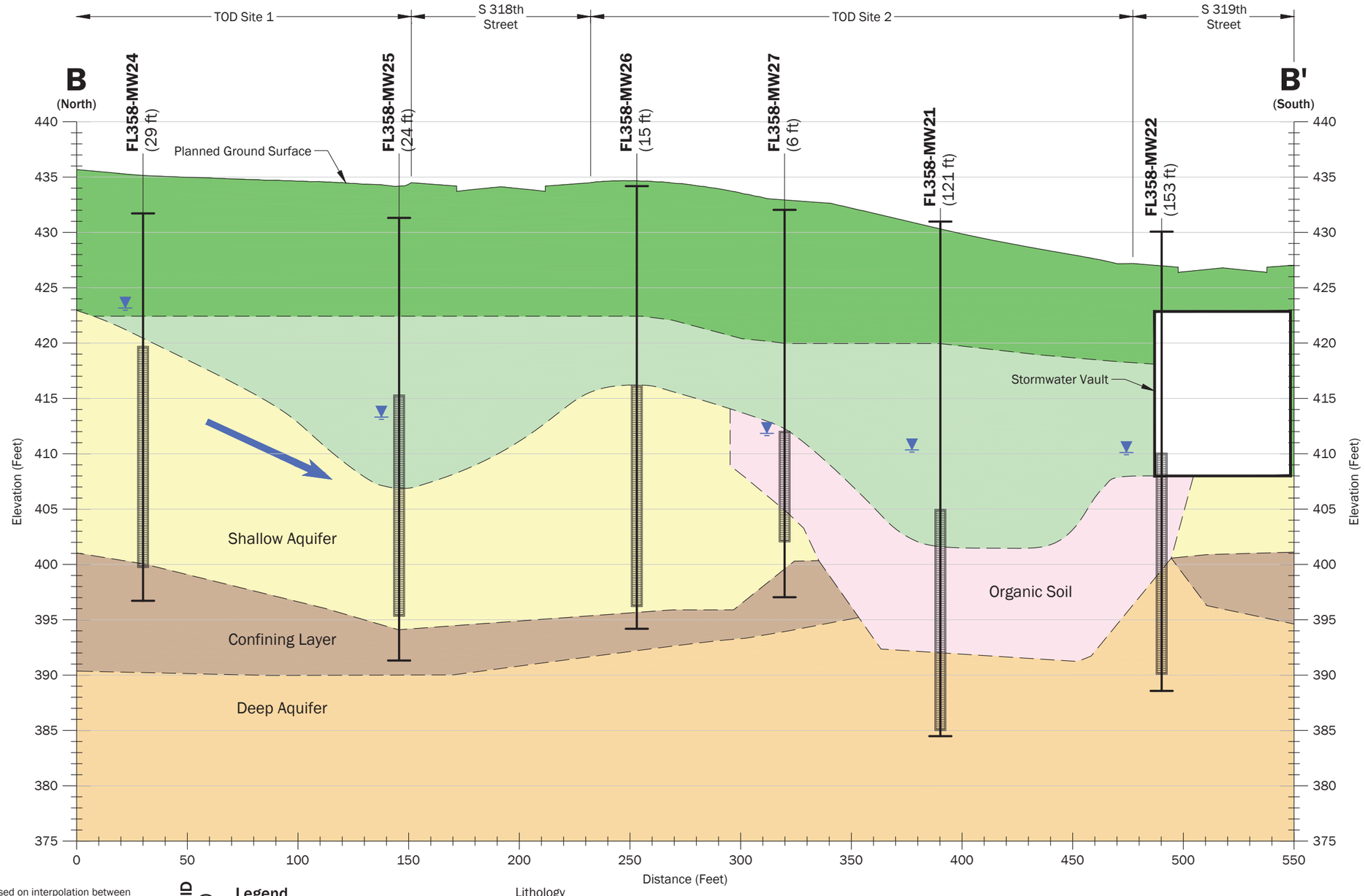
Cross Section A-A'

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure 3

P:\4\40820390\CAD\06\RI Update\040820390_F03_CS A-A' dwg 3 Date Exported:10/2/2025 11:18 AM - by Gabby Register



Notes:

1. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
2. TOD = transit oriented development
3. Groundwater level FL358-MW26 is not shown because it is not representative.

Datum: NAVD1988 (North American Vertical Datum of 1988)

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Legend

Boring ID (Offset)

- Boring
- Inferred Soil Contact
- Shallow Aquifer Groundwater Level (Measured)
- Well Screen
- Shallow Aquifer Groundwater Flow

Lithology

- Fill Placed or Planned to Placed After 2020
- Fill Placed in the 1970s
- Organic Soil
- Silty Sand and Sandy Silt, Sand and Silt with Gravel (Glacial Lacustrine, Lacrustrine, Recessional Outwash, Weathered Till)
- Hard Silt with Gravel (Dense Glacial Till)
- Sand and Silt with Gravel (Advance Outwash)

0 50 Horizontal Feet

0 10 Vertical Feet

Vertical Exaggeration = 5X

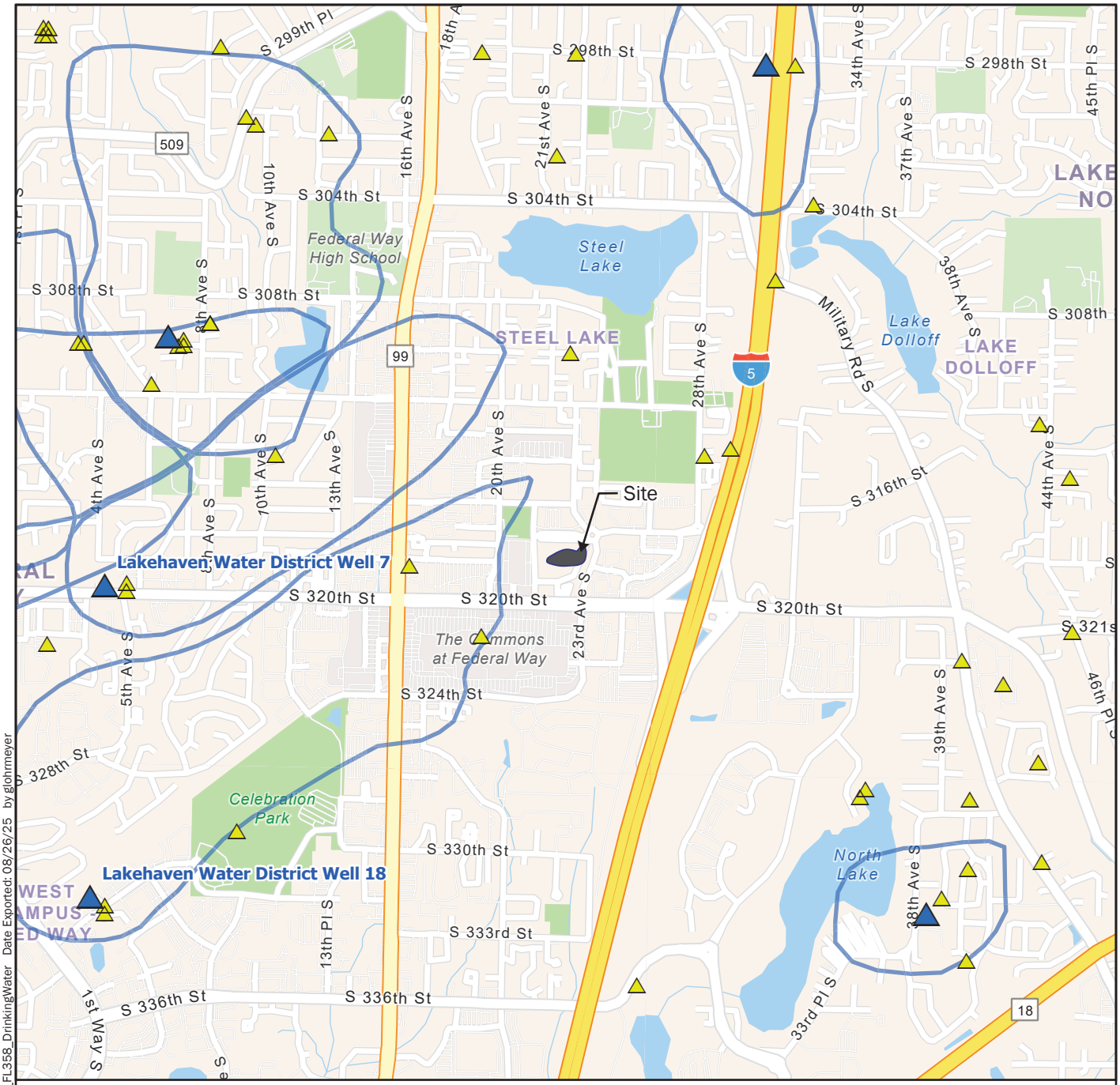
Cross Section B-B'

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure 4

P:\41\4082039\CAD\06\ri-update\04082039903_F04_CS B-B'.dwg 4 Date Exported:8/25/2025 2:41 PM - by Gabby Register



Site

Group A Community Water Well (Depth in feet)

Group D Private Water Well

Group A Community Water Well Protection Area - Modeled 10 Year Travel Time

0 2,000

Feet

Source(s):

- Wellhead Protection Areas and Water Wells from Washington Department of Health and King County

Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet

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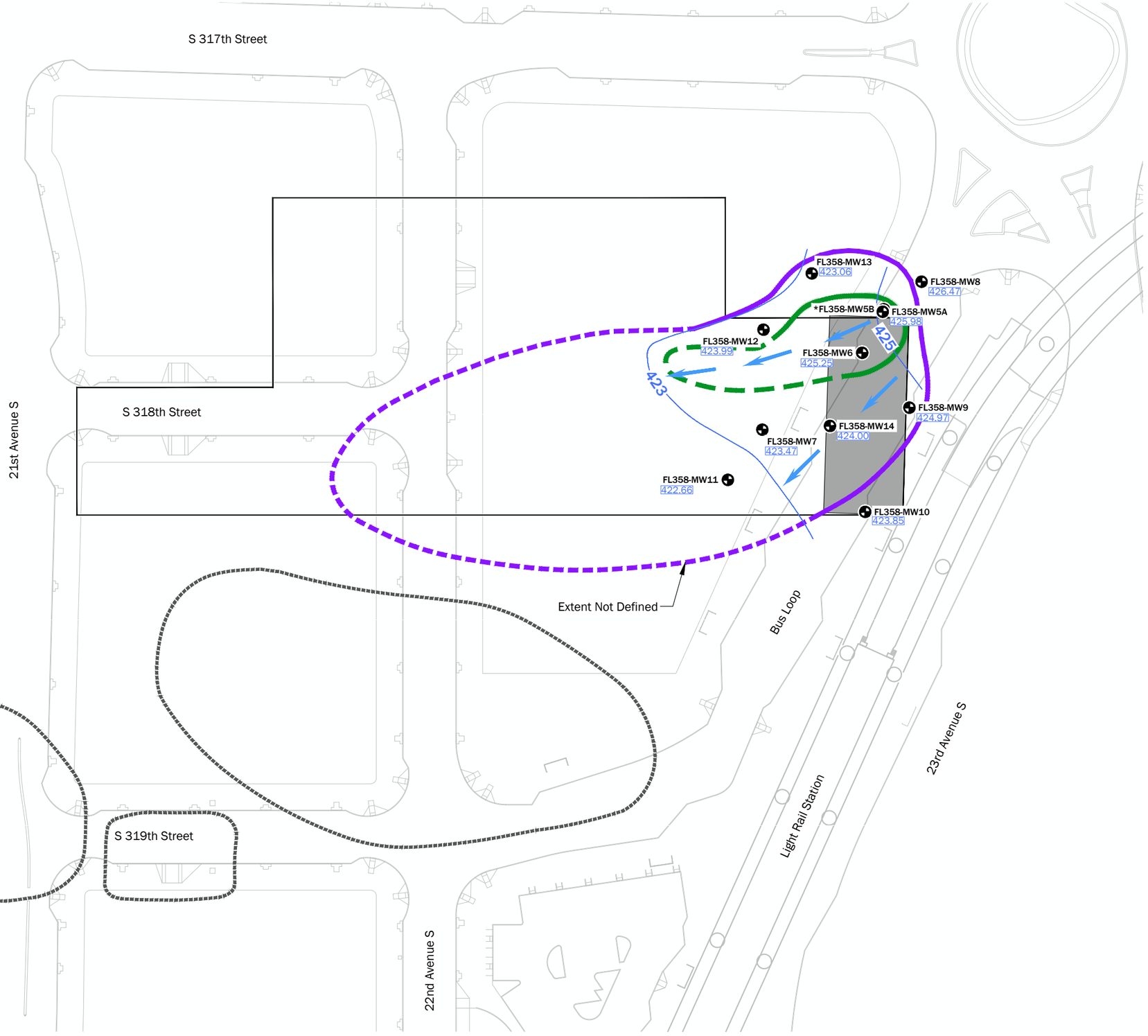
Nearby Sources of Drinking Water

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure 5

P:\4\4082039\GIS\4082039_Project\4082039_Project.aprx\408203903_F05_FI358_DrinkingWater Date Exported: 08/26/25 by glohrmeyer



Legend

- Former Y Pay Mor Cleaners (Space A-6)
- Former SeaTac Plaza Building
- Former Pond Extent
- Monitoring Well Location
- 409 Groundwater Contour - Shallow Aquifer
- Approximate Groundwater Flow Direction of Shallow Aquifer (variable range shown)

Approximate Extent of Chemical of Concern at Concentrations Greater than the PCUL (Dashed where Undefined)

- Tetrachloroethene (PCE)
- Vinyl Cloride

Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. * = Monitoring well FL358-MW5B was excluded for the purposes of groundwater interpolation.
3. TOD = Transit Oriented Development
4. PCE = tetrachloroethene
5. PCUL = preliminary cleanup level

Data Sources:

- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons

Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.

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Feet

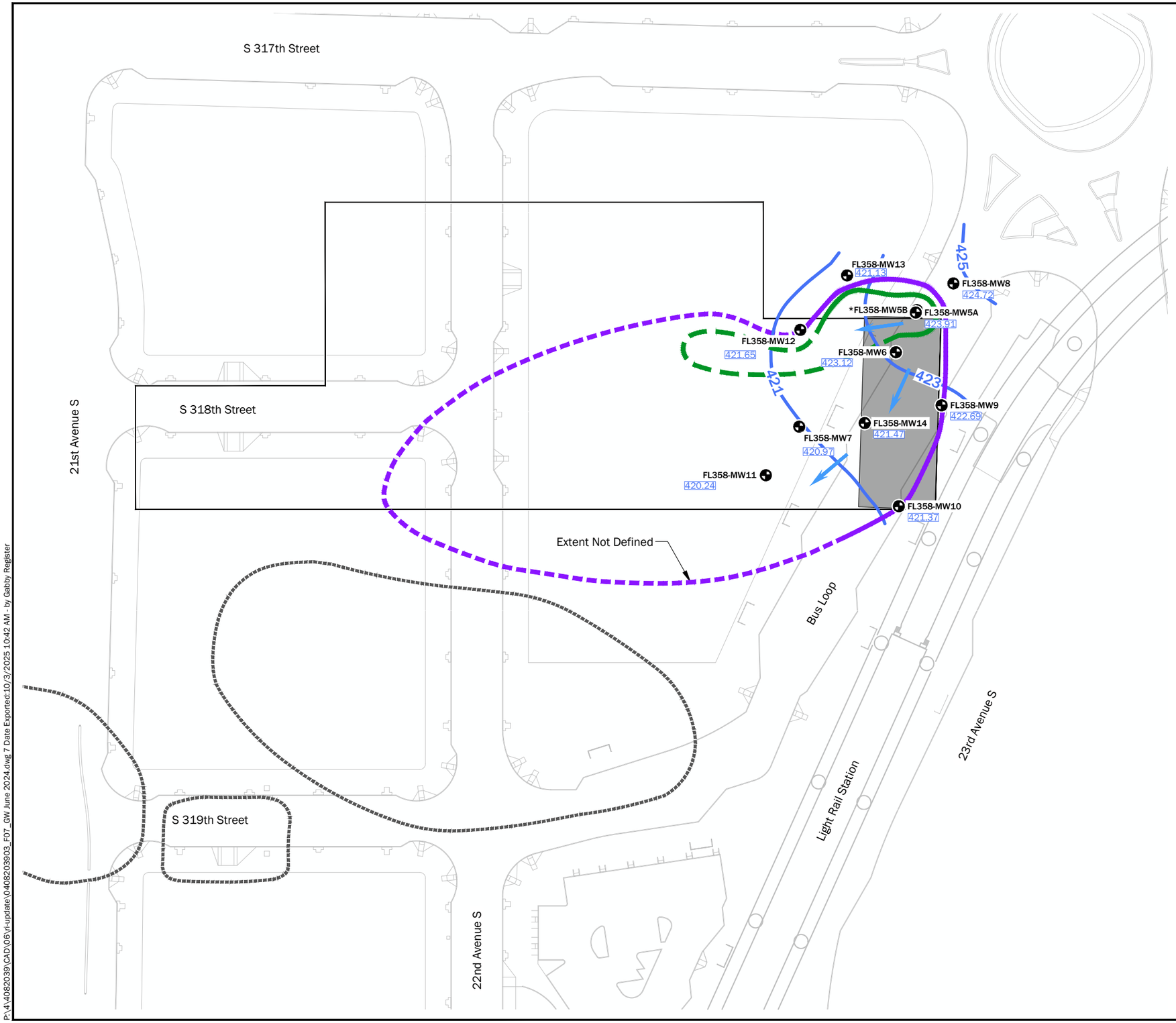
Groundwater Conditions
March 2024

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

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Figure 6

P:\4\4082039\CAD\06\ri-update\04082039O3_F06_GW Mar 2025.dwg 6 Date Exported:10/3/2025 10:43 AM - by Gabby Register



Legend

- Former Y Pay Mor Cleaners (Space A-6)
- Former SeaTac Plaza Building
- Former Pond Extent
- Monitoring Well Location
- 409 Groundwater Contour - Shallow Aquifer
- Approximate Groundwater Flow Direction of Shallow Aquifer (variable range shown)

Approximate Extent of Chemical of Concern at Concentrations Greater than the PCUL (Dashed where Undefined)

- Tetrachloroethene (PCE)
- Vinyl Cloride

Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. * = Monitoring well FL358-MW5B was excluded for the purposes of groundwater interpolation.
3. TOD = Transit Oriented Development
4. PCE = tetrachloroethene
5. PCUL = preliminary cleanup level

Data Sources:

- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons

Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.

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Feet

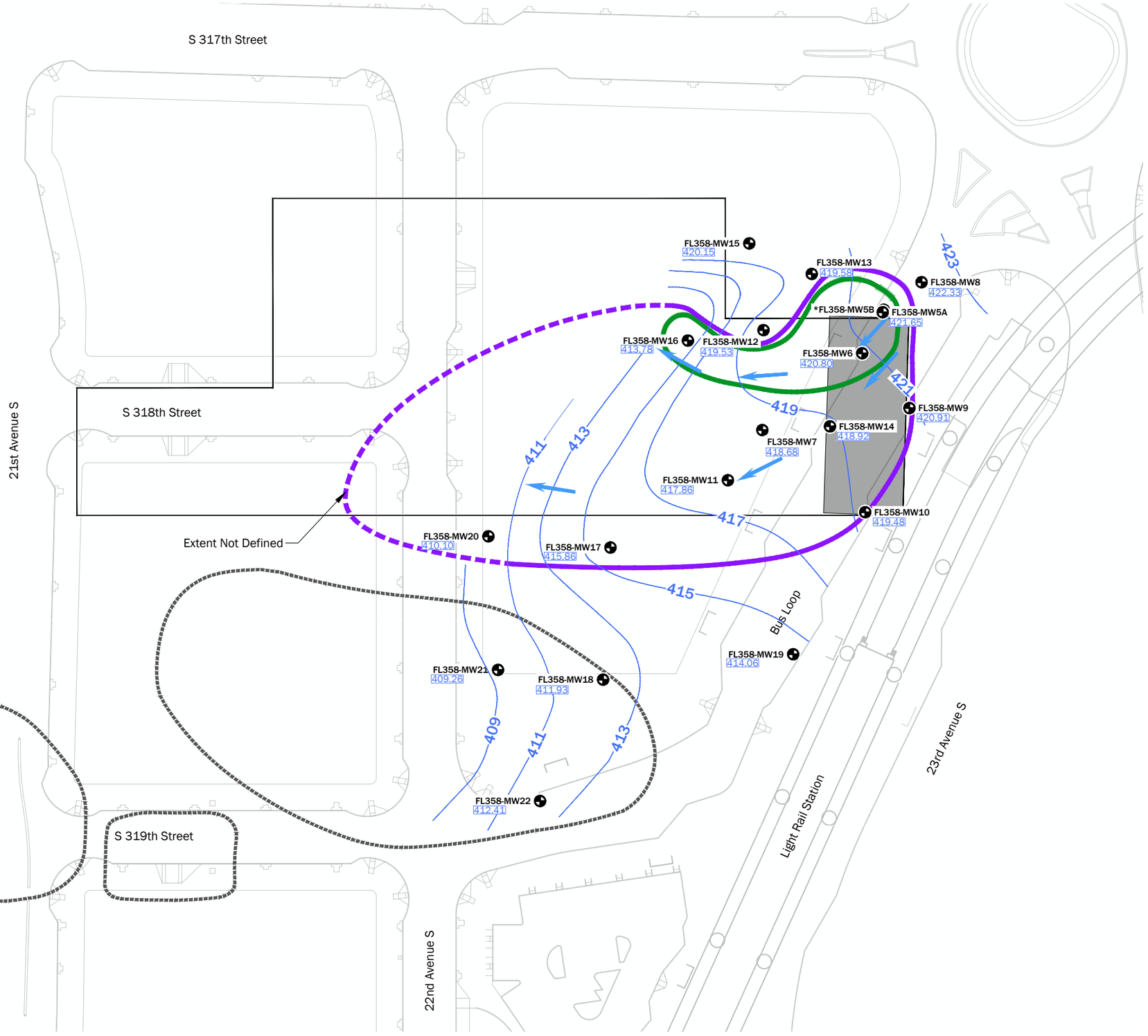
Groundwater Conditions June 2024

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure 7

P:\4\4082039\CAD\06\ri-update\04082039_F07_GW June 2024.dwg 7 Date Exported:10/3/2025 10:42 AM - by Gabby Register



Legend

- Former Y Pay Mor Cleaners (Space A-6)
- Former SeaTac Plaza Building
- Former Pond Extent
- Monitoring Well Location
- 409 Groundwater Contour - Shallow Aquifer
- Approximate Groundwater Flow Direction of Shallow Aquifer (variable range shown)

Approximate Extent of Chemical of Concern at Concentrations Greater than the PCUL (Dashed where Undefined)

- Tetrachloroethene (PCE)
- Vinyl Cloride

Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. * = Monitoring well FL358-MW5B was excluded for the purposes of groundwater interpolation.
3. TOD = Transit Oriented Development
4. PCE = tetrachloroethene
5. PCUL = preliminary cleanup level

Data Sources:

- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons
- Wells FL358-MW15 through FL358-MW22 surveyed by True North Land Surveying, INC, dated 9/20/2024
- Wells FL358-MW15 through BL358-MW22 surveyed by True North Land Surveying, INC, dated 9/20/2024

Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.

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Feet

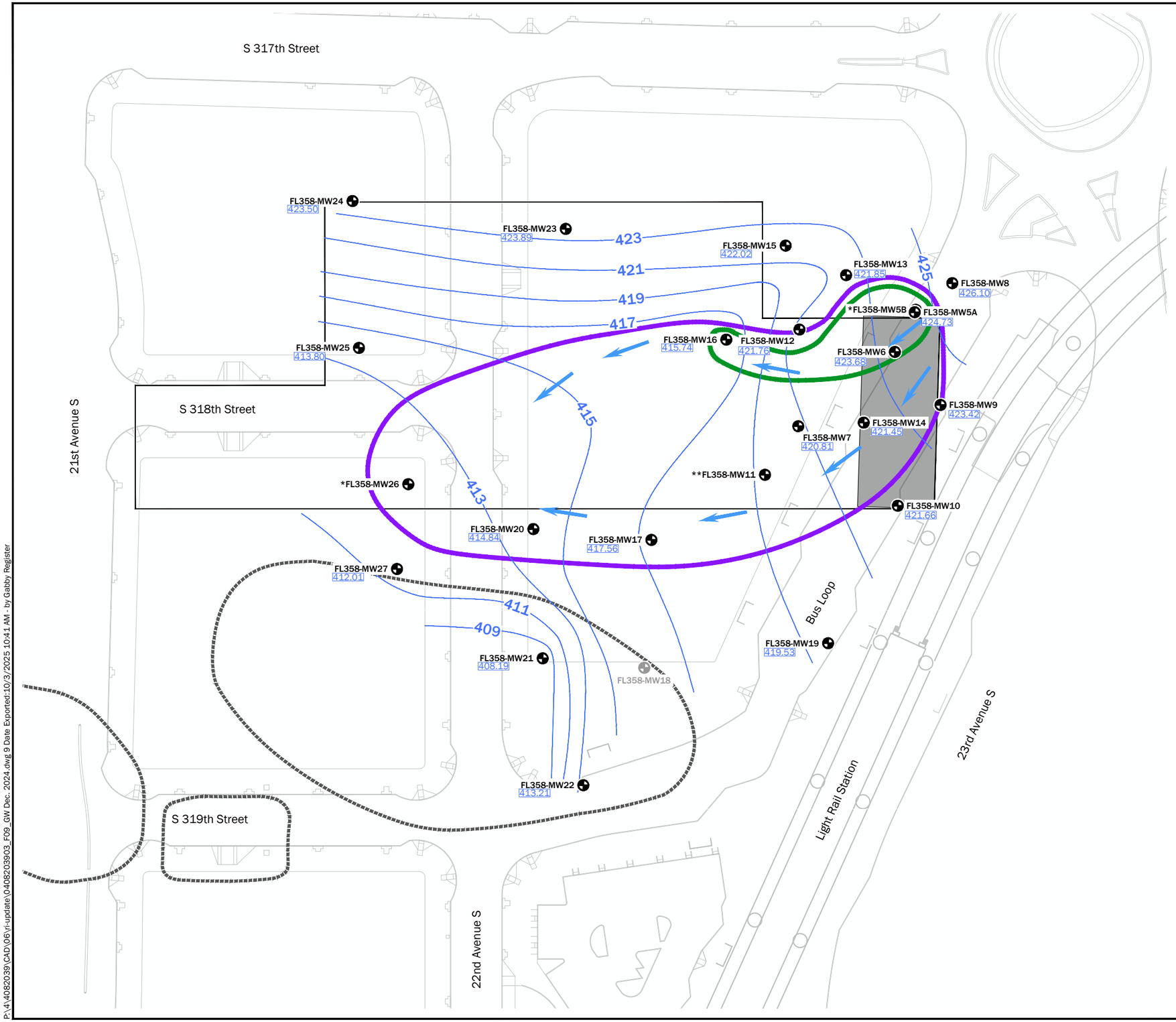
Groundwater Conditions September 2024

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

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Figure 8

P:\4\4082039\CAD\06\ri-update\04082039003_F08_GW Sep. 2024.dwg 8 Date Exported:10/3/2025 10:42 AM - by Gabby Register



Legend

- Former Y Pay Mor Cleaners (Space A-6)
- Former SeaTac Plaza Building
- Former Pond Extent
- Monitoring Well Location
- Decommissioned Monitoring Well
- 409 Groundwater Contour
- Approximate Groundwater Flow Direction (variable range shown)

Approximate Extent of Chemical of Concern at Concentrations Greater than the PCUL

- Tetrachloroethene (PCE)
- Vinyl Cloride

Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. * = Monitoring wells FL358-MW5B and FL358-MW26 were excluded for the purposes of groundwater interpolation.
3. TOD = Transit Oriented Development
4. PCE = tetrachloroethene
5. PCUL = preliminary cleanup level
6. ** = Monitoring Well FL358-MW11 was damaged prior to December 2024 and was excluded for the purposes of groundwater interpolation.

Data Sources:

- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons
- Wells FL358-MW-23 to FL358-MW-27 Surveyed by True North Land Surveying, INC, dated 12/20/24
- Wells FL358-MW15 through BL358-MW22 surveyed by True North Land Surveying, INC, dated 9/20/2024

Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.

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Feet

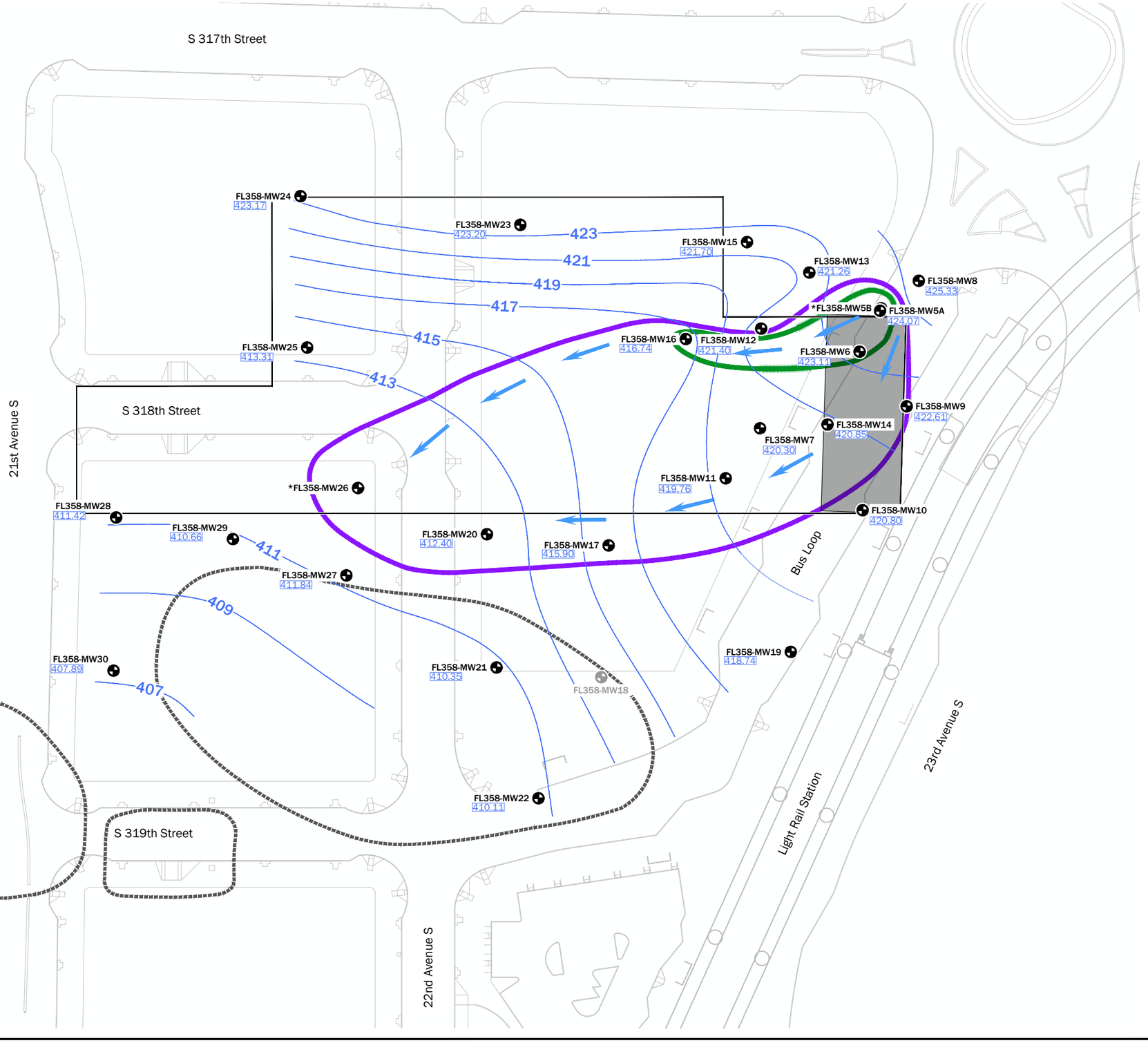
Groundwater Conditions December 2024

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

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Figure 9

P:\4.4082039\CAD\06\ri-update\0408203903_F09_GW Dec. 2024.dwg 9 Date Exported:10/3/2025 10:41 AM - by Gabby Register



Legend

- Former Y Pay Mor Cleaners (Space A-6)
- Former SeaTac Plaza Building
- Former Pond Extent
- Monitoring Well Location
- Decommissioned Monitoring Well
- 409 Groundwater Contour
- Approximate Groundwater Flow Direction (variable range shown)

Approximate Extent of Chemical of Concern at Concentrations Greater than the PCUL

- Tetrachloroethene (PCE)
- Vinyl Cloride

Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. * = Monitoring well FL358-MW5B and FL358-MW26 were excluded for the purposes of groundwater interpolation.
3. TOD = Transit Oriented Development
4. PCE = tetrachloroethene
5. PCUL = preliminary cleanup level

Data Sources:

- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons
- Wells FL358-MW-23 to FL358-MW-27 Surveyed by True North Land Surveying, INC, dated 12/20/24
- Wells FL358-MW-28 to FL358-MW-30 Surveyed by True North Land Surveying, INC, dated 3/3/25
- Wells FL358-MW15 through BL358-MW22 surveyed by True North Land Surveying, INC, dated 9/20/2024

Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.

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N

0 80

Feet

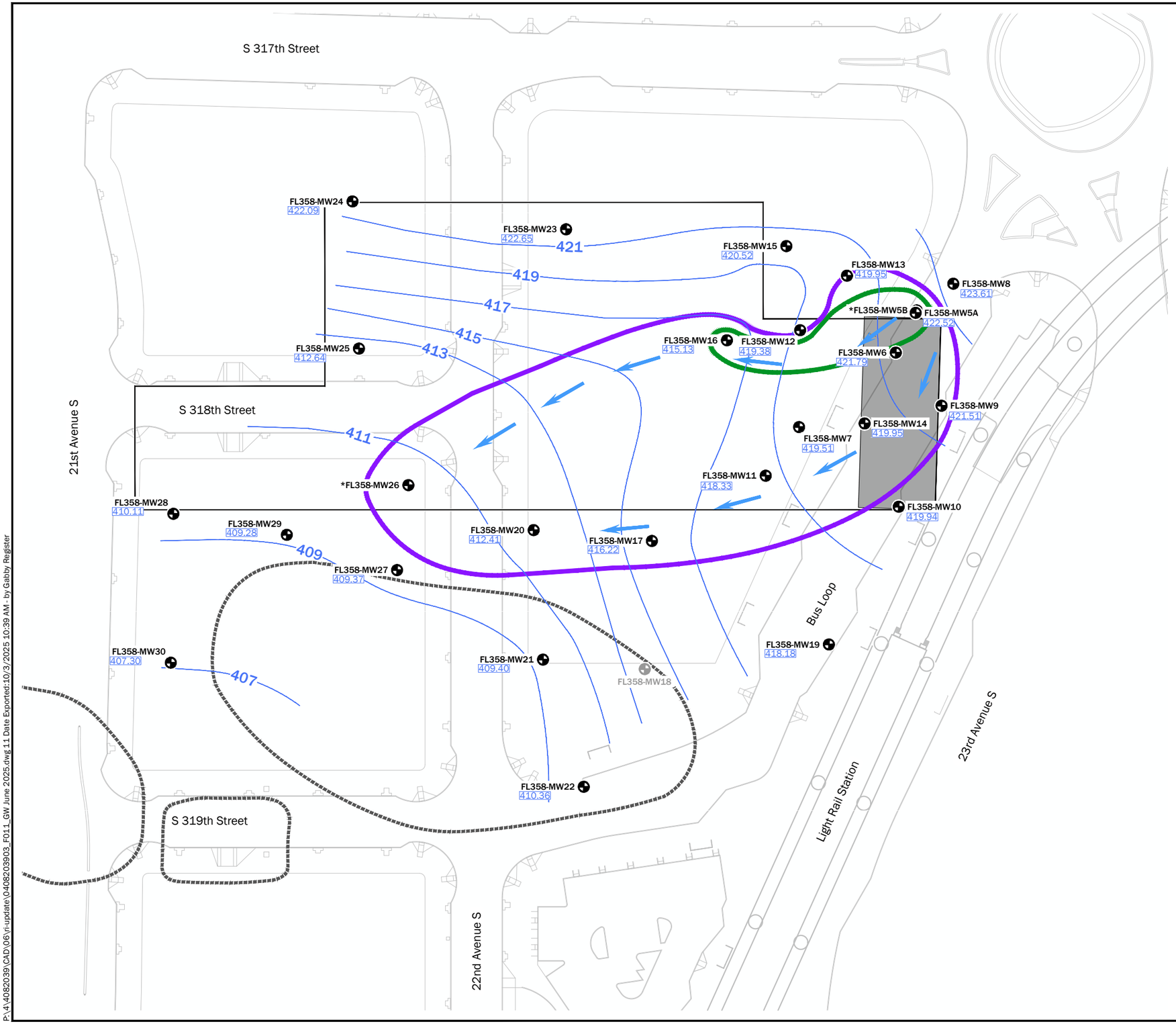
Groundwater Conditions March 2025

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure 10

P:\A\4082039\CAD\06\ri-update\04082039O3_F010_GW Mar. 2025.dwg 10 Date Exported:10/3/2025 10:40 AM - by Gabby Register



Legend

- Former Y Pay Mor Cleaners (Space A-6)
- Former SeaTac Plaza Building
- Former Pond Extent
- Monitoring Well Location
- Decommissioned Monitoring Well
- 409 Groundwater Contour
- Approximate Groundwater Flow Direction (variable range shown)

Approximate Extent of Chemical of Concern at Concentrations Greater than the PCUL

- Tetrachloroethene (PCE)
- Vinyl Cloride

Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. * = Monitoring well FL358-MW5B and FL358-MW26 were excluded for the purposes of groundwater interpolation.
3. TOD = Transit Oriented Development
4. PCE = tetrachloroethene
5. PCUL = preliminary cleanup level

Data Sources:

- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons
- Wells FL358-MW-23 to FL358-MW-27 Surveyed by True North Land Surveying, INC, dated 12/20/24
- Wells FL358-MW-28 to FL358-MW-30 Surveyed by True North Land Surveying, INC, dated 3/3/25
- Wells FL358-MW15 through BL358-MW22 surveyed by True North Land Surveying, INC, dated 9/20/2024

Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.

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N

0 80

Feet

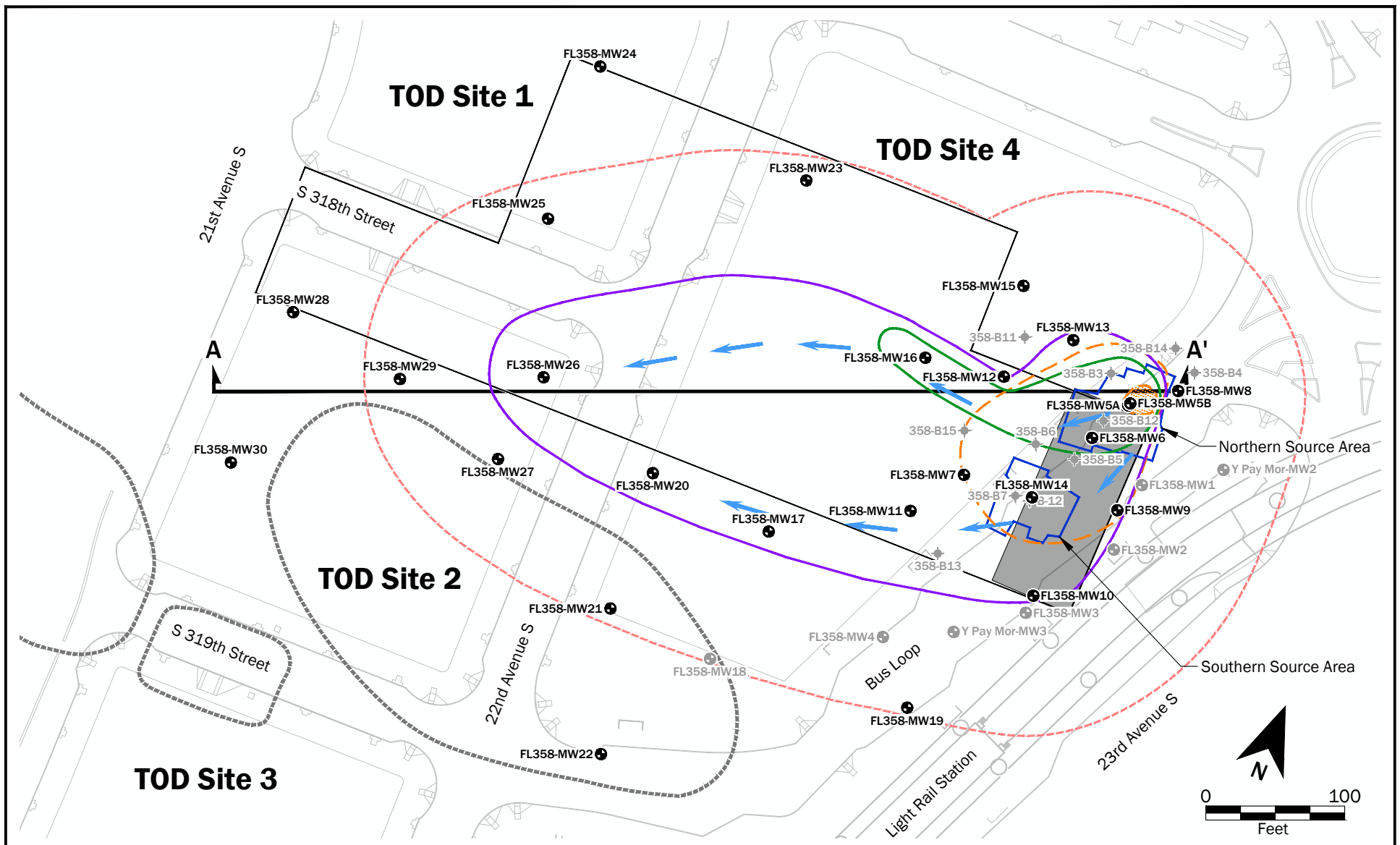
Groundwater Conditions June 2025

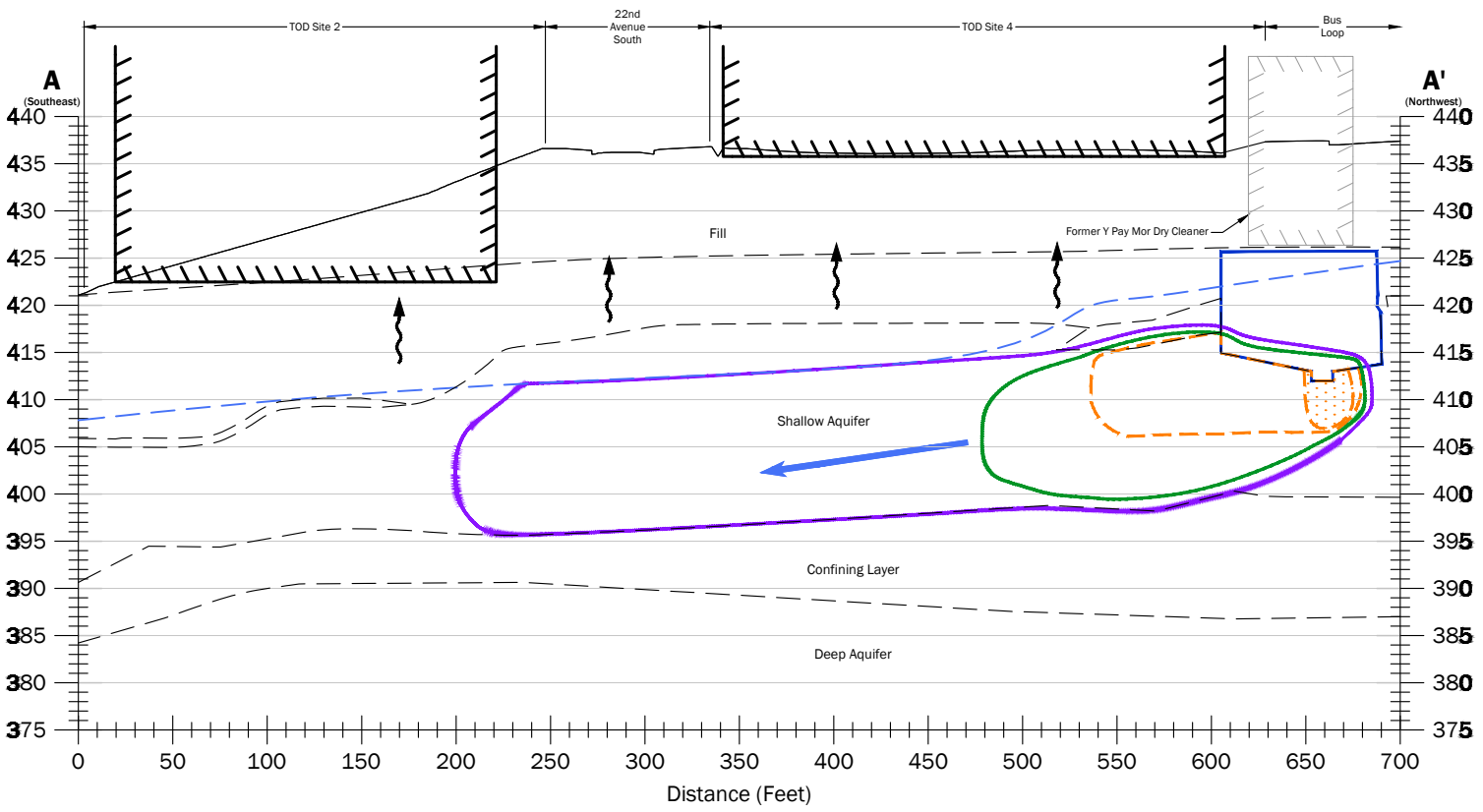
Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

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Figure 11

P:\4\4082039\CAD\06\ri-update\0408203903_F011_GW June 2025.dwg 11 Date Exported:10/3/2025 10:39 AM - by Gabby Register





0 100
Horizontal Feet
0 20
Vertical Feet
Vertical Exaggeration = 5X

Legend

- Former Y Pay Mor Cleaners (Space A-6)
- Extent of 2020 Interim Action Excavation
- Former Pond Extent
- 409 Groundwater Contour
- Approximate Groundwater Flow Direction (variable range shown)
- Monitoring Well Location
- Decommissioned Monitoring Well
- Soil Boring with Temporary Well
- A A' Cross Section Location
- Former SeaTac Plaza Building
- Potential Mixed Use Building
- Former Space A-6 Building
- Shallow Aquifer Groundwater Level
- Potential Vapor Intrusion
- CVOC Soil Contamination
- CVOC-Contaminated Soil Greater than 20 times the PCUL
- PCE Groundwater Contamination
- Vinyl Chloride Groundwater Contamination
- 100-foot Lateral Distance from Groundwater Plume - Potential for Vapor Intrusion Into Future Buildings

Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. The subsurface conditions shown are based on interpolation between widely space explorations and should be considered approximate.
3. TOD = Transit Oriented Development
4. CVOC = Chlorinated Volatile Organic Compound
5. PCE = Tetrachloroethene
6. Regional Aquifer is 620 Feet Down-Gradient and 160 Feet Below Ground Surface.

Data Sources:

- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons
- Wells FL358-MW23 to FL358-MW27 Surveyed by True North Land Surveying, INC, dated 12/20/24
- Wells FL358-MW28 to FL358-MW30 Surveyed by True North Land Surveying, INC, dated 3/3/25
- Wells FL358-MW15 through BL358-MW22 surveyed by True North Land Surveying, INC, dated 9/20/2024

Plan View Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.
Section View Datum: NAVD1988 (North American Vertical Datum of 1988)

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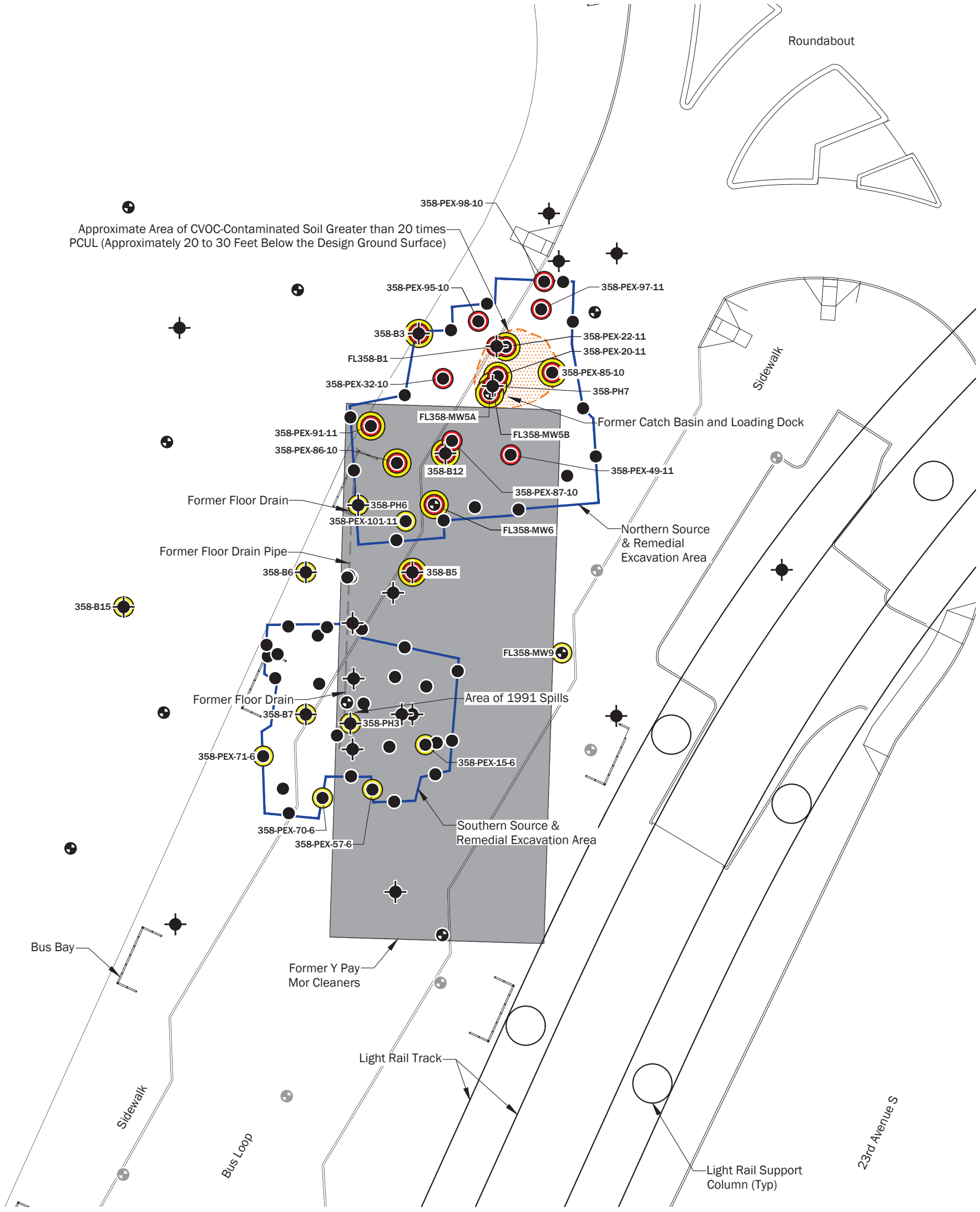
Conceptual Site Model

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure 12

P:\4\4082039\CAD\06\RI-Update\04082039O3_F012_Conceptual Site Model.dwg 12 Date Exported:10/3/2025 8:12 AM - by Gabby Register



Legend

- Former Y Pay Mor Cleaners (Space A-6)
- Soil Confirmation Sample
- Monitoring Well
- Soil Boring or Test Pit
- Decommissioned Monitoring Well
- Extent of Interim Action Excavation
- CVOC-Contaminated Soil Greater than 20 times the PCUL
- PCE Detected Greater than the PCUL
- PCE-Breakdown Product Detected Greater than the PCUL

Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. PCUL = Preliminary Cleanup Level
3. PCE = Tetrachloroethene
4. CVOCs = Chlorinated volatile organic compounds

Data Sources:

- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons

Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.

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N

0 30

Feet

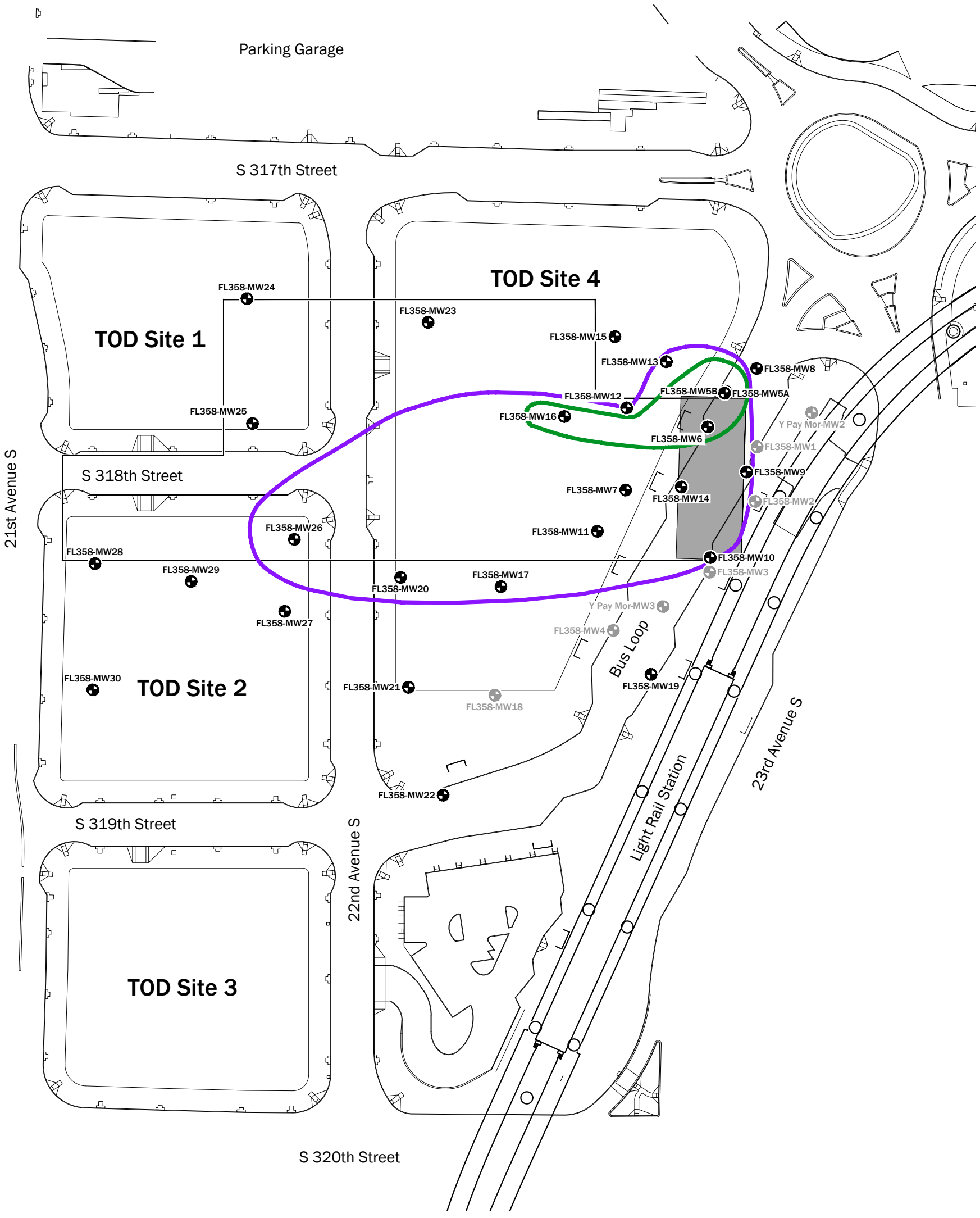
Post-Excavation Extent of PCE and PCE-Breakdown Product Contamination in Soil

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure 13

P:\4_4082039\CAD\06\ri-update\0408203903_F013_Post-Excavation.dwg 13 Date Exported:10/2/2025 8:41 AM - by Gabby Register



Legend

- Former Y Pay Mor Cleaners (Space A-6)
- Monitoring Well Location
- Decommissioned Monitoring Well
- Approximate Extent of PCE in Groundwater at Concentrations Greater than the PCUL During the 2024-2025 Sampling Events
- Approximate Extent of Vinyl Chloride in Groundwater at Concentrations Greater than the PCUL During the 2024-2025 Sampling Events

Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. Aerial photograph shows condition prior to construction of Federal Way Downtown Station
3. TOD = Transit Oriented Development

Data Sources:

- Aerial from Furtado & Associates dated 1/20/2024
- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons
- Wells FL358-MW23 to FL358-MW27 Surveyed by True North Land Surveying, INC, dated 12/20/24
- Wells FL358-MW28 to FL358-MW30 Surveyed by True North Land Surveying, INC, dated 3/3/25

Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.

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0 100

Feet

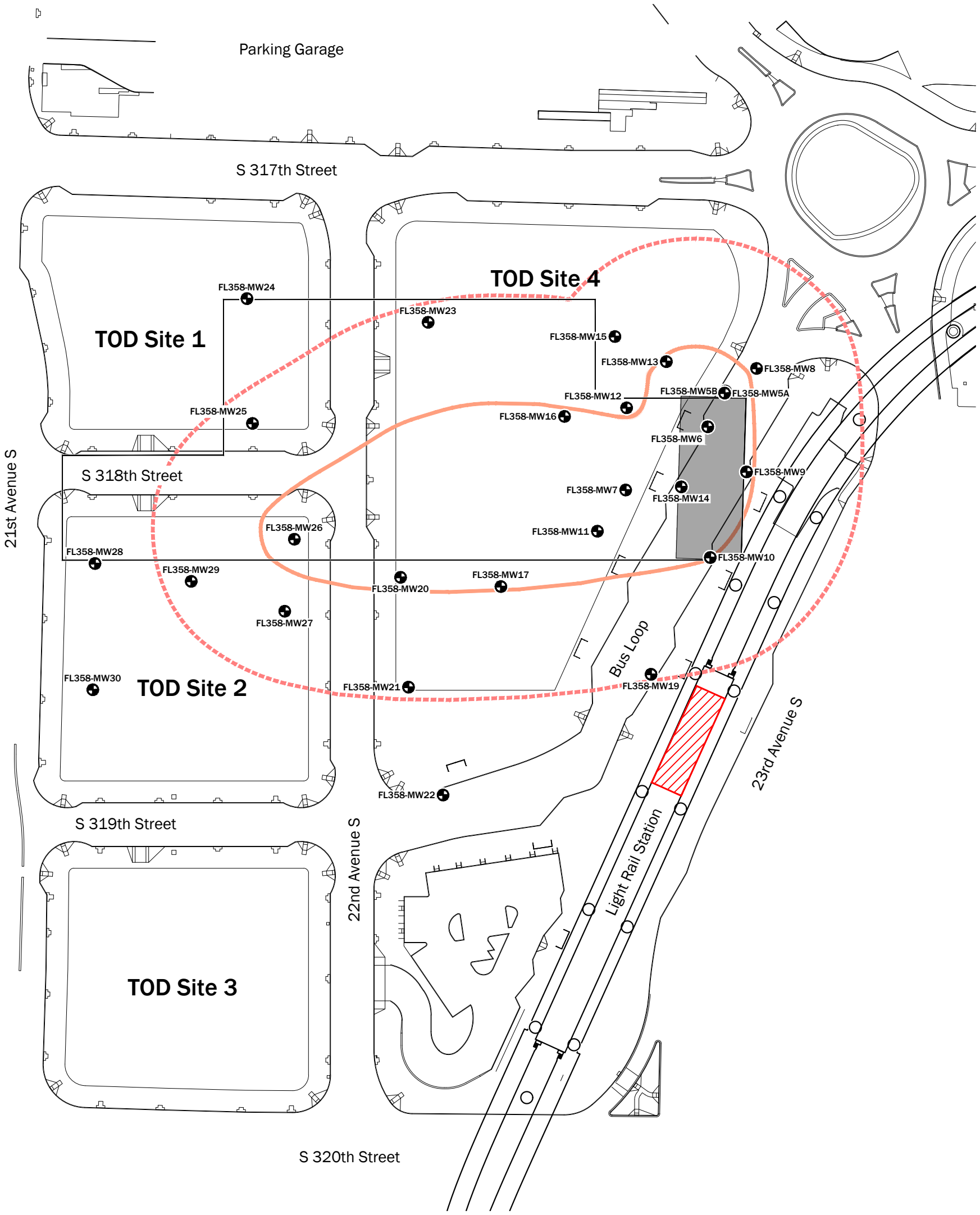
Extent Of Groundwater Impacts

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure 14

P:\4.4082039\CAD\06\RI-Update\04082039O3_F014_Extent of GW.dwg 14 Date Exported:10/3/2025 12:56 PM - by Gabby Register



Legend

- Former Y Pay Mor Cleaners (Space A-6)
- Former SeaTac Plaza Building
- Portion of Light Rail Station with Enclosed Space
- Monitoring Well Location
- Approximate Extent of PCE, TCE and/or Vinyl Chloride at Concentrations Greater than the Respective Vapor Intrusion Screening Level September 2024 to June 2025
- 100-foot Lateral Distance from Groundwater Plume - Potential for Vapor Intrusion Into Future Buildings

Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. Aerial photograph shows condition prior to construction of Federal Way Downtown Station
3. TOD = Transit Oriented Development
4. PCE = Tetrachloroethene
5. TCE = Trichloroethene

Data Sources:

- Aerial from Furtado & Associates dated 1/20/2024
- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons
- Wells FL358-MW23 to FL358-MW27 Surveyed by True North Land Surveying, INC, dated 12/20/24
- Wells FL358-MW28 to FL358-MW30 Surveyed by True North Land Surveying, INC, dated 3/3/25

Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.

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N

0 100

Feet

Extent Of Vapor Intrusion Potential

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

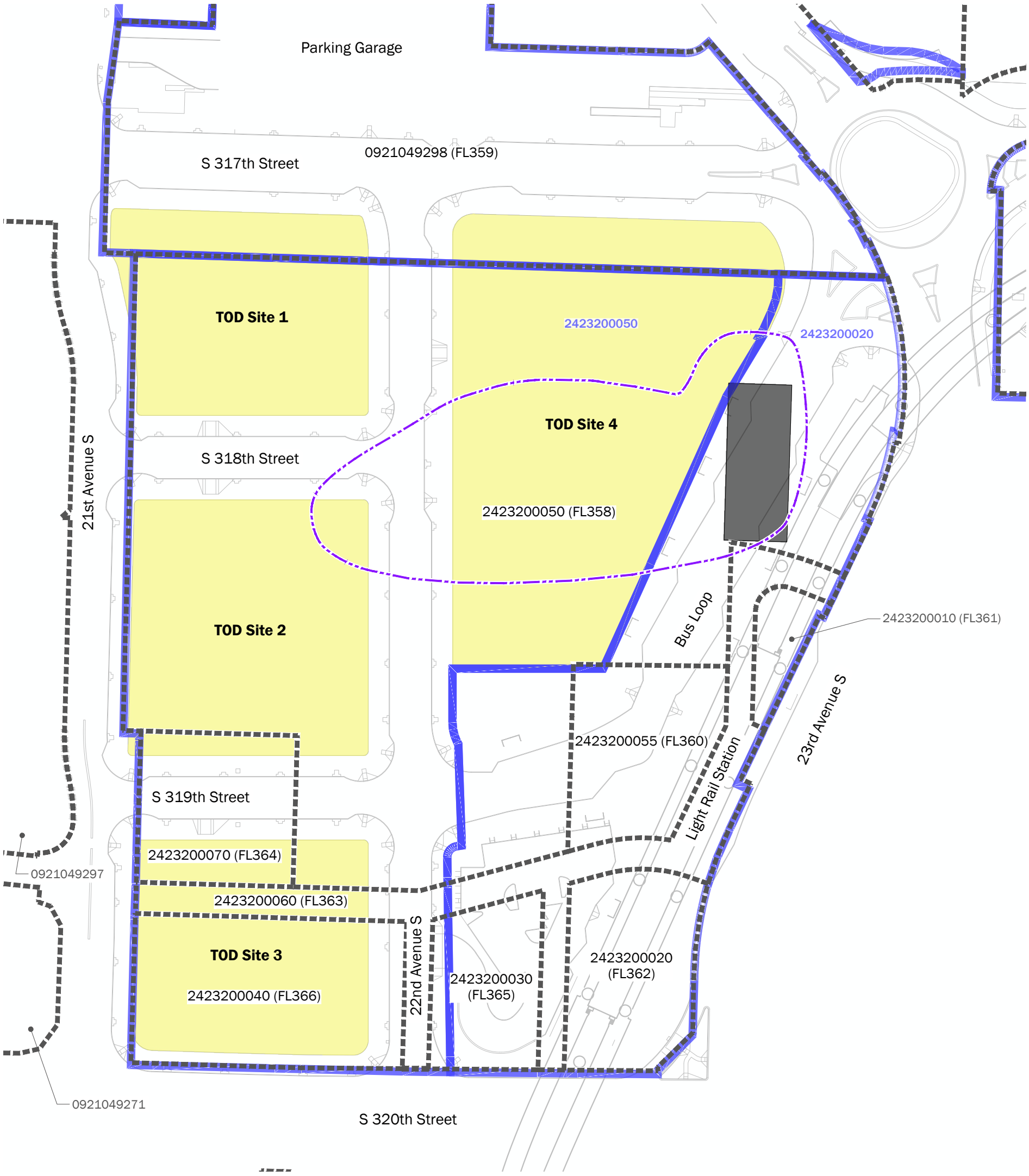
Figure 15

P:\4\4082039\CAD\06\ri-update\04082039O3_F015_Extent of Vapor.dwg 15 Date Exported:10/3/2025 10:38 AM - by Gabby Register

Appendices

Appendix A

Parcel Boundary Changes



Notes:

1. Features and infrastructure shown are proposed or currently under construction.
2. TOD = Transit Oriented Development

Data Sources:

- Design plans S3.15 S07-CDP536, S07-UCP336 dated October 28, 2021 completed by Kiewit/Parsons

Coordinate System: Project Datum Washington State Planes, North Zone, US Foot.

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N

0 100

Feet

Parcel Boundary Changes

Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure A-1

P:\4\4082039\CAD\06\RI-Update\408203906_A-1_Parcel Boundary Changes.dwg A-1 Date Exported:8/21/2025 6:05 PM - by Gabby Register

Appendix B

Exploration Logs

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE			GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% RETAINED ON NO. 200 SIEVE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS
	MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE			SP	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% PASSING NO. 200 SIEVE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
	AC	Asphalt Concrete
	CC	Cement Concrete
	CR	Crushed Rock/ Quarry Spalls
	SOD	Sod/Forest Duff
	TS	Topsoil

Groundwater Contact

Measured groundwater level in exploration, well, or piezometer

Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata

Approximate contact between soil strata

Material Description Contact

Contact between geologic units

Contact between soil of the same geologic unit

Sampler Symbol Descriptions

Modified California Sampler (6-inch sleeve) or Dames & Moore

Standard Penetration Test (SPT)

Shelby tube

Piston

Direct-Push

Bulk or grab

Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

"P" indicates sampler pushed using the weight of the drill rig.

"WOH" indicates sampler pushed using the weight of the hammer.

Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DD	Dry density
DS	Direct shear
EI	Expansion index
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
Mohs	Mohs hardness scale
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PL	Point load test
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
UU	Unconsolidated undrained triaxial compression
VS	Vane shear

Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

Key to Exploration Logs

GeoEngineers

Figure B-1

Drilled	Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
	9/12/2024	9/13/2024	41.5	DDK/JAK / TSD	Holocene Drilling, Inc.	Hollow-stem Auger

Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment	Diedrich D70
Surface Elevation (ft) Vertical Datum	435.98 NAVD88	Top of Casing Elevation (ft)	439.00
Easting (X) Northing (Y)	1275642.877 119193.145	Horizontal Datum	WA State Plane North NAD83 (feet)

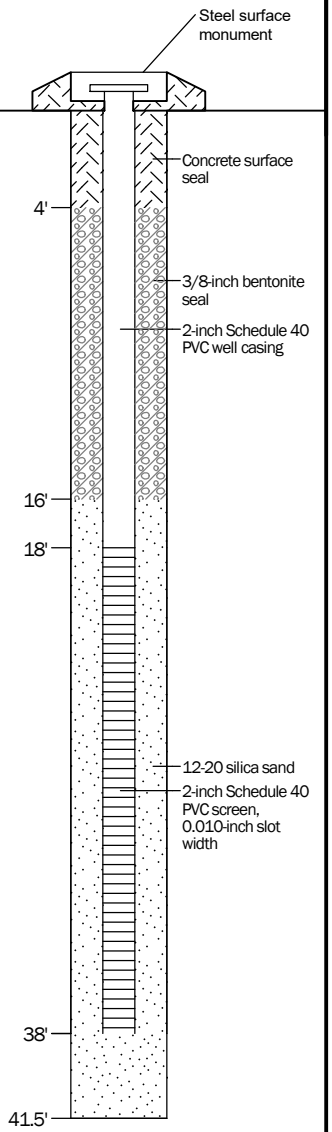
DOE Well I.D.: BQB817
A 2-in well was installed on 9/13/2024 to a depth of 40 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
9/20/2024	18.85	420.15

Notes: Well installed as a stickup. Log is shown from ground surface.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
435	0									Ground surface to 20 feet not sampled for logging		
430	5											
425	10											
420	15											
415	20		11	28		FL358-MW15 20-21.5			GP-GM	Brown-gray gravel and fine sand with silt, iron staining (medium dense, moist)	NS	0.0
			1	50/3"					SP	Gray gravelly sand with silt (very dense, moist)	NS	0.0
410	25		1	50/1"					SM	Brown-gray silty sand (very dense, wet)	NS	0.0
			7	32		FL358-MW15 27.5-29 CA			SM	Gray silty sand with gravel (dense, wet)	NS	0.0
405	30		8.5	24		FL358-MW15 30-31.5 CA				Gray silty fine sand with trace gravel (medium dense to dense, wet)	NS	0.0
			10	46		FL358-MW15 32.5-34					NS	0.0
400	35		9	60		FL358-MW15 35-36.5 CA			ML	Gray gravelly silt with sand (hard, wet)	NS	0.0
			1	69					SM	Gray silty sand with gravel (dense, moist)	NS	0.0
395	40		12	74/8"		FL358-MW15 40-41.5 CA			ML	Gray silt with fine sand, fine sandy silt with gravel (very dense, wet)	NS	0.0

WELL LOG



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 9/18/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW15

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-05

Figure B-2
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203905.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIRONMENTAL_WELL

Drilled	Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
	9/10/2024	9/10/2024	46.5	DDK/JAK / TSD	Holocene Drilling, Inc.	Hollow-stem Auger

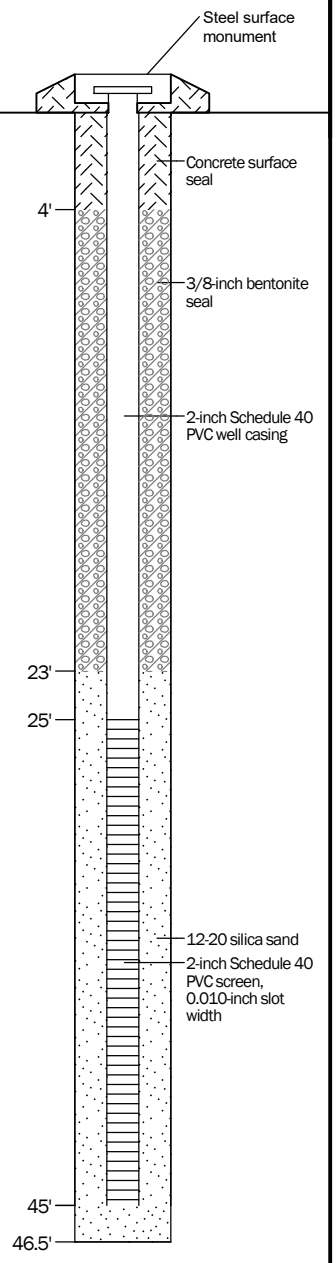
Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment	Diedrich D70
Surface Elevation (ft) Vertical Datum	435.73 NAVD88	Top of Casing Elevation (ft)	438.76
Easting (X) Northing (Y)	1275596.109 119119.081	Horizontal Datum	WA State Plane North NAD83 (feet)

DOE Well I.D.: BQB814
A 2-in well was installed on 9/10/2024 to a depth of 45 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
9/20/2024	24.98	413.78

Notes: Well installed as a stickup. Log is shown from ground surface.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
435	0									Ground surface to 20 feet not sampled for logging		
430	5											
425	10											
420	15											
415	20	☒	8	10					SM	Brown silty sand with gravel (loose, wet)	NS	0.0
		☒	4	40					GP	Gray silty gravel with trace fine sand (dense, wet)	NS	0.0
410	25	☒	0	30			▼					
		☒	15	10					SP-SM	Brown sandy silt (wet)	NS	0.0
									ML	Gray fine sandy silt (stiff, wet)	NS	0.0
405	30	☒	18	12						Trace gravel	NS	0.0
		☒	13	10					SM	Gray silty sand (wet)	NS	0.0
400	35	☒	9	18						With trace gravel	NS	0.0
		☒	0	50/5"					SM	Gray silty sand with trace gravel (very dense, wet)		
395	40	☒	4	50/5"							NS	0.0
		☒	0	50/1"								
390	45	☒	0	50/1"								



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 9/18/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW16

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-05

Figure B-3
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203905.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIRONMENTAL_WELL

Drilled	Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
	9/13/2024	9/13/2024	41.5	DDK/JAK / TSD	Holocene Drilling, Inc.	Hollow-stem Auger

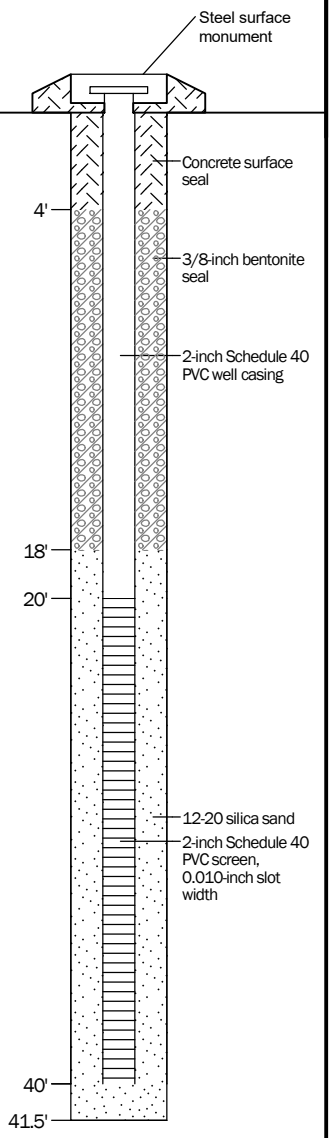
Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment	Diedrich D70
Surface Elevation (ft) Vertical Datum	434.70 NAVD88	Top of Casing Elevation (ft)	437.43
Easting (X) Northing (Y)	1275537.114 118961.334	Horizontal Datum	WA State Plane North NAD83 (feet)

DOE Well I.D.: BQB819
A 2-in well was installed on 9/13/2024 to a depth of 40 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
9/20/2024	21.57	415.86

Notes: Well installed as a stickup. Log is shown from ground surface.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
	0									Ground surface to 20 feet not sampled for logging		
430	5											
425	10											
420	15											
415	20		4	20			▼		SM	Brown silty sand with gravel (medium dense, moist) (fill)	NS	0.0
			12	34		FL358-MW17 22.5-24			ML	Gray sandy silt with trace gravel (dense, wet)	NS	0.3
410	25		2	50/6"							NS	0.0
			15	16		FL358-MW17 27.5-28 CA			GP	Brown silty gravel, trace fine sand (medium dense, moist)		
405	30		0	46							NS	0.0
			18	27		FL358-MW17 32.5-34 CA			SM	Brown silty fine to medium sand, trace gravel (wet)	NS	0.0
400	35		18	53		FL358-MW17 35-36 CA						
			6	50/3"		FL358-MW17 37.5-39			ML	Gray silt with coarse sand (very dense, moist) Becomes wet with trace gravel	NS	0.0
395	40		6	50/6"		FL358-MW17 40-41.5 CA					NS	0.0



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 9/18/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW17

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-05

Figure B-4
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203905.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIRONMENTAL_WELL

Drilled	Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
	9/12/2024	9/12/2024	46.5	DDK/JAK / TSD	Holocene Drilling, Inc.	Hollow-stem Auger

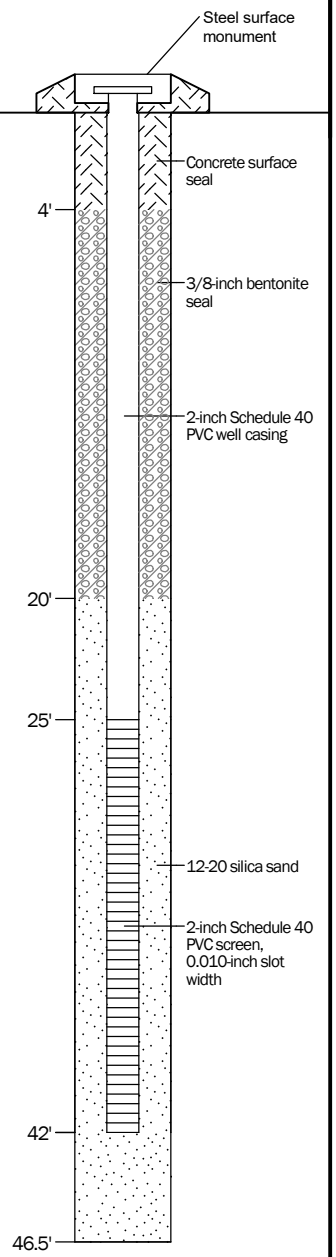
Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment	Diedrich D70
Surface Elevation (ft) Vertical Datum	431.08 NAVD88	Top of Casing Elevation (ft)	433.56
Easting (X) Northing (Y)	1275531.48 118860.61	Horizontal Datum	WA State Plane North NAD83 (feet)

DOE Well I.D.: BQB818
A 2-in well was installed on 9/12/2024 to a depth of 42 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
9/20/2024	21.63	411.93

Notes: Well installed as a stickup. Log is shown from ground surface.

Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
								Ground surface to 20 feet not sampled for logging		
	8	11		FL358-MW18 20-21.5 CA	▼		GP	Brown-gray sandy gravel (medium dense, moist)	NS	0.0
	2	10					SM	Dark brown sand with silt and trace gravel (loose, moist)		
	14	7		FL358-MW18 25-26.5 SA, CA			SM	Dark brown to black silty sand with organic matter and gravel (medium stiff to soft, moist)	NS	0.0
	18	3		FL358-MW18 27.5-29 CA					NS	0.0
	18	1		FL358-MW18 30-31.5 CA				Iron staining	NS	0.0
	0	45		FL358-MW18 32.5-34 CA			ML	Brown sandy silt with trace gravel (wet)	NS	0.0
							SP	Gray sand with gravel (wet)		
	18	26		FL358-MW18 35-36.5 SA, CA			SM	Gray silty fine sand with trace gravel (medium dense to dense, wet)	NS	0.0
	18	26		FL358-MW18 37.5-39 CA					NS	0.0
	10	40		FL358-MW18 40-41.5 CA						
	14	50/4"		FL358-MW18 42.5-44 SA, CA			SM	Gray silty sand with gravel (very dense, moist)		
	10	50/6"								



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 9/18/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW18

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-05

Figure B-5
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203905.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIRONMENTAL_WELL

Drilled	Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
	9/11/2024	9/11/2024	44	DDK/JAK / TSD	Holocene Drilling, Inc.	Hollow-stem Auger

Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment	Diedrich D70
Surface Elevation (ft) Vertical Datum	433.30 NAVD88	Top of Casing Elevation (ft)	433.01
Easting (X) Northing (Y)	1275676.35 118879.961	Horizontal Datum	WA State Plane North NAD83 (feet)

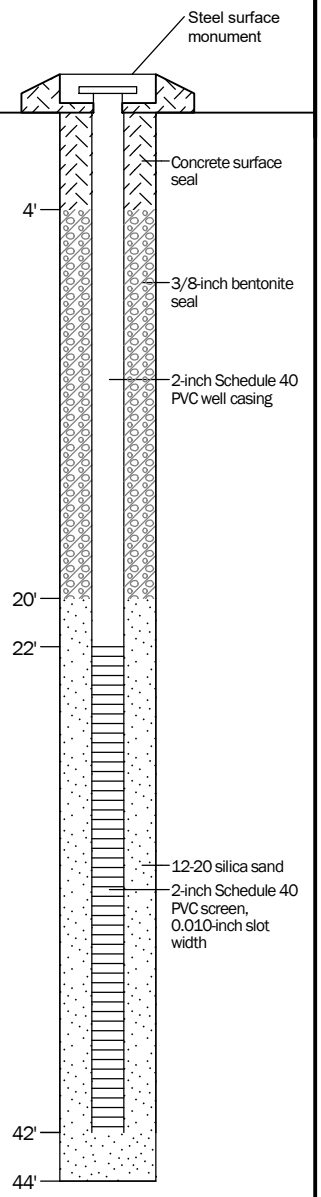
DOE Well I.D.: BQB815
A 2-in well was installed on 9/11/2024 to a depth of 42 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
9/20/2024	18.95	414.06

Notes: Log is shown from ground surface.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
	0									Ground surface to 20 feet not sampled for logging		
430	5											
425	10											
420	15											
415	20		12	39					SM	Brown to blue-gray silty fine sand with gravel (dense, moist)	NS	0.0
410			4	25					SM	Dark brown silty fine sand with trace gravel (medium dense, moist)	NS	0.0
	25		3	13							NS	0.0
405			0	9					NR	No recovery		
	30		0	43								
400			6.5	57					SP-SM	Gray silty sand with gravel and trace iron staining (dense, wet)	NS	0.0
	35		18	71					SP-SM	Gray coarse sand with gravel (dense, wet)	NS	0.0
395			14	50/6"					SM	Gray silty fine sand with gravel (very dense, wet)	NS	0.1
	40		11	50/6"					ML	Gray fine sandy silt with gravel (hard, moist)		
390			9	50/4"					SM	Brown fine silty sand with trace gravel (very dense, moist)		

WELL LOG



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 9/18/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW19

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-05

Figure B-6
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203905.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIRONMENTAL_WELL

Drilled	Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
	9/16/2024	9/16/2024	41.5	DDK/JAK / TSD	Holocene Drilling, Inc.	Hollow-stem Auger

Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment	Diedrich D70
Surface Elevation (ft) Vertical Datum	434.54 NAVD88	Top of Casing Elevation (ft)	437.44
Easting (X) Northing (Y)	1275444.075 118969.849	Horizontal Datum	WA State Plane North NAD83 (feet)

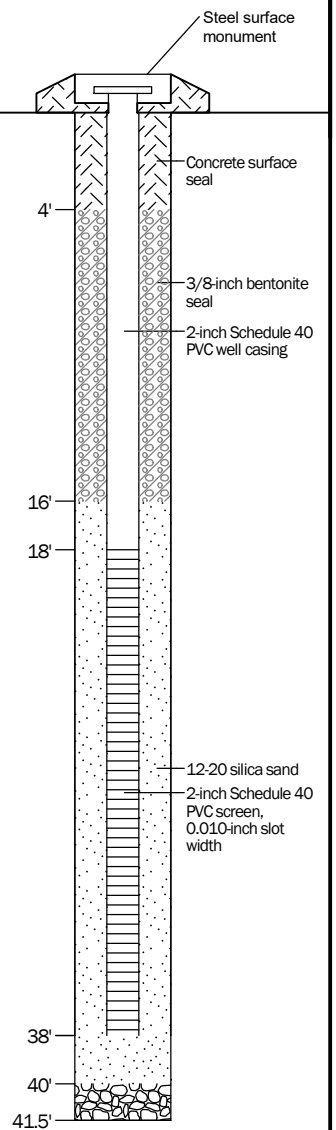
DOE Well I.D.: BQB821
A 2-in well was installed on 9/16/2024 to a depth of 38 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
9/20/2024	27.34	410.10

Notes: Well installed as a stickup. Log is shown from ground surface.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
	0									Ground surface to 20 feet not sampled for logging		
430	5											
425	10											
420	15											
415	20		11	17					GP	Gray sandy gravel (medium dense, wet)		
			12	54					GP-GM	Gray gravel with silt and sand (very dense, wet)		
410	25		1	50			▼					
			10	40					GP-GM	Gray gravel with fine sand and silt (wet)		
405	30		0	25								
			12	53					ML	Brown-gray sandy silt (very hard, wet)		
400	35		3	12					SM	Brown silty fine sand with trace gravel and trace iron staining (medium dense to very dense, wet)		
			12	50/6"								
395	40		10	50/5"					SM	Gray fine sandy silt with gravel (moist)		

WELL LOG



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 9/18/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW20

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-05

Figure B-7
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203905.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIRONMENTAL_WELL

Drilled	Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
	9/13/2024	9/13/2024	46.5	DDK/JAK / TSD	Holocene Drilling, Inc.	Hollow-stem Auger

Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment	Diedrich D70
Surface Elevation (ft) Vertical Datum	430.98 NAVD88	Top of Casing Elevation (ft)	433.84
Easting (X) Northing (Y)	1275451.446 118868.044	Horizontal Datum	WA State Plane North NAD83 (feet)

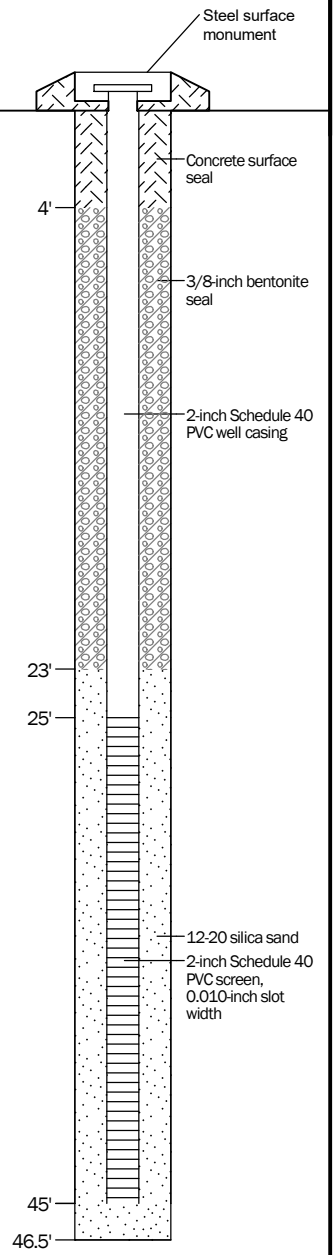
DOE Well I.D.: BQB820
A 2-in well was installed on 9/13/2024 to a depth of 45 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
9/20/2024	24.58	409.26

Notes: Well installed as a stickup. Log is shown from ground surface.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
430	0									Ground surface to 20 feet not sampled for logging		
425	5											
420	10											
415	15											
410	20		7	8					SP-SM	Brown-gray fine sand with silt and gravel (moist)	NS	0.0
			4	7					SP	Brown sand with silt (moist)	NS	0.0
405	25		10	5					SP-SM	Dark brown-gray silty sand with gravel (moist)	NS	0.0
			12	8						Becomes brown-bluish gray	NS	0.0
400	30		6	2					ML	Dark brown fine sandy silt with trace gravel, woody debris and organic matter (soft, moist)	NS	0.0
			18	7					ML	Reddish brown silty fine sand with organic matter (loose, moist)	NS	0.0
395	35		18	5						Becomes brown	NS	0.0
			18	32					SP	Becomes wet Gray sand with silt and trace gravel (dense, wet)	NS	0.0
390	40		10	27								
			18	47					SM	Blue-gray silty fine sand (medium dense, wet)		
									ML	Gray silt with sand (hard, wet)		
385	45		18	24					SP-SM	Blue-gray sand with silt (medium dense, wet)		

WELL LOG



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 9/18/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW21

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-05

Figure B-8
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203905.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIRONMENTAL_WELL

Drilled	Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
	9/12/2024	9/12/2024	41.5	DDK/JAK / TSD	Holocene Drilling, Inc.	Hollow-stem Auger

Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment	Diedrich D70
Surface Elevation (ft) Vertical Datum	430.07 NAVD88	Top of Casing Elevation (ft)	429.87
Easting (X) Northing (Y)	1275483.497 118768.074	Horizontal Datum	WA State Plane North NAD83 (feet)

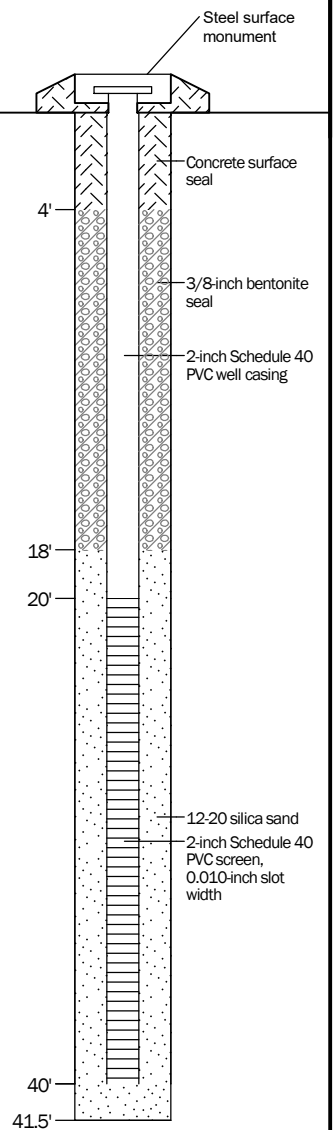
DOE Well I.D.: BQB816
A 2-in well was installed on 9/12/2024 to a depth of 40 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
9/20/2024	17.46	412.41

Notes: Log is shown from ground surface.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
425	0									Ground surface to 20 feet not sampled for logging		
420	5											
415	10											
410	15						▼					
405	20	☒	4	30					SM	Light brown silty sand with gravel (medium dense, wet)	NS	
		☒	2	14							NS	
400	25	☒	12	9					SM	Brown-gray silty sand with gravel and organic matter (wet)	NS	
		☒	0	8							NS	
395	30	☒	8	14						Becomes brown	NS	
		☒	6	26							NS	
390	35	☒	6	20							NS	
		☒	18	14					SP	Gray fine to medium sand with silt (wet)	NS	
	40	☒		23							NS	

WELL LOG



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 9/18/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW22

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-05

Figure B-9
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203905.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIRONMENTAL_WELL

Drilled Start 12/19/2024	End 12/19/2024	Total Depth (ft) 35	Logged By DDK/JAK Checked By TSD	Driller Magna Services	Drilling Method Sonic

Hammer Data	NA	Drilling Equipment	Fraste SonicSamp Drill Rig
Surface Elevation (ft) Vertical Datum	434.87 NAVD88	Top of Casing Elevation (ft)	438.00
Easting (X) Northing (Y)	1275469.62 119206.33	Horizontal Datum	WA State Plane North NAD83 (feet)

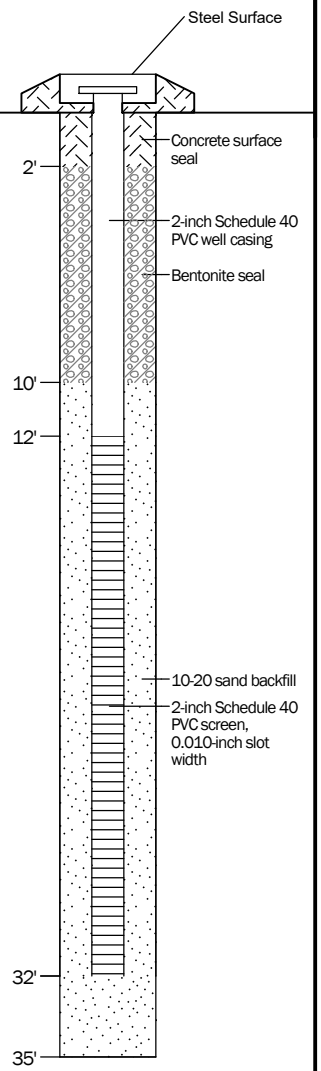
DOE Well I.D.: BQM 305
A 2-in well was installed on 12/19/2024 to a depth of 32 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
12/30/2024	14.11	423.89

Notes:

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Temperature (°F)	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
430	0		120	95				SM	Brown-gray silty, gravelly sand (moist) (fill)	NS	<1
				100						NS	<1
	5			90						NS	<1
				90						NS	<1
425				100						NS	<1
	10		120		FL358-MW-23 10-11				Trace iron staining	NS	<1
				120						NS	<1
				130						NS	<1
420					FL358-MW-23 14-15						
	15			140				GP	Brown silty, sandy gravel (moist)	NS	<1
				130						NS	<1
								ML	Brown sandy, gravelly silt (moist)	NS	<1
415				120	FL358-MW-23 19-20						
	20		102					ML	Brown sandy silt with gravel and trace cobbles (wet)		
				70						NS	<1
410					FL358-MW-23 24-25						
	25			70						NS	<1
				80				ML	Gray silt with medium to coarse sand and occasional gravel (wet)	NS	<1
405					FL358-MW-23 29-30						
	30		60	70						NS	<1
				80				ML	Gray silt with trace sand and trace gravel (blocky and friable) (moist)	NS	<1
400					FL358-MW-23 33-34						
	35			100						NS	<1

WELL LOG



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 2/24/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW23

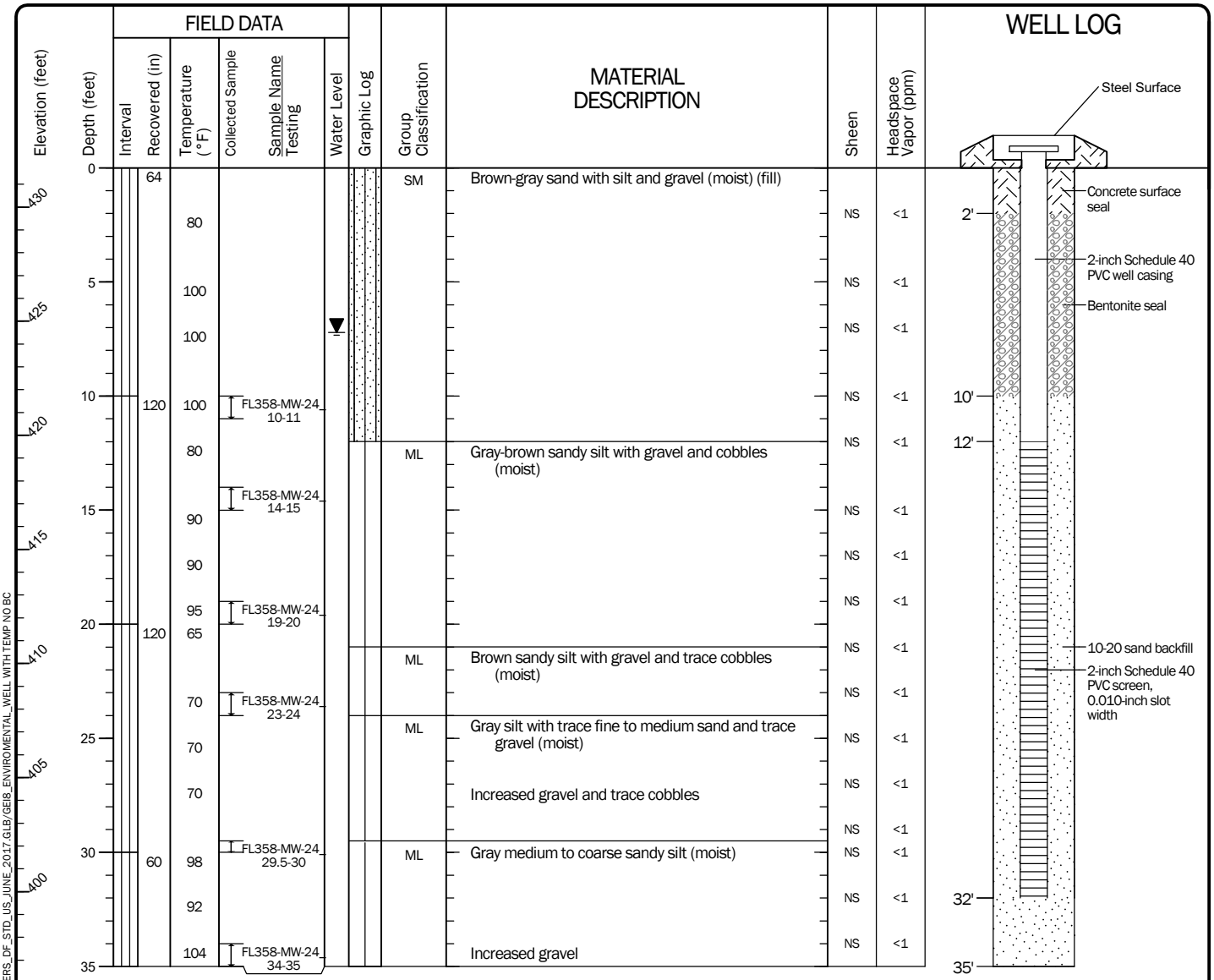
GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-06

Figure B-10
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203906.GPJ DBLibrary:LibraryGEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIROMENTAL_WELL WITH TEMP NO BC

Drilled Start 12/19/2024 End 12/19/2024	Total Depth (ft) 35	Logged By DDK/JAK Checked By TSD	Driller Magna Services	Drilling Method Sonic	
Hammer Data NA		Drilling Equipment Fraste SonicSamp Drill Rig		DOE Well I.D.: BQM 304 A 2-in well was installed on 12/19/2024 to a depth of 32 ft.	
Surface Elevation (ft) Vertical Datum 431.72 NAVD88		Top of Casing Elevation (ft) 430.72		Groundwater	Depth to Water (ft) / Elevation (ft)
Easting (X) 1275301.61 Northing (Y) 119228.28		Horizontal Datum WA State Plane North NAD83 (feet)		Date Measured 12/30/2024	7.22 / 423.50
Notes:					



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 2/24/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW24

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-06

Figure B-11
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203906.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIROMENTAL_WELL WITH TEMP NO BC

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
12/18/2024	12/18/2024	40	DDK/JAK / TSD	Magna Services	Sonic

Hammer Data	NA	Drilling Equipment	Fraste SonicSamp Drill Rig
Surface Elevation (ft) Vertical Datum	431.31 NAVD88	Top of Casing Elevation (ft)	434.35
Easting (X) Northing (Y)	1275306.7 119112.58	Horizontal Datum	WA State Plane North NAD83 (feet)

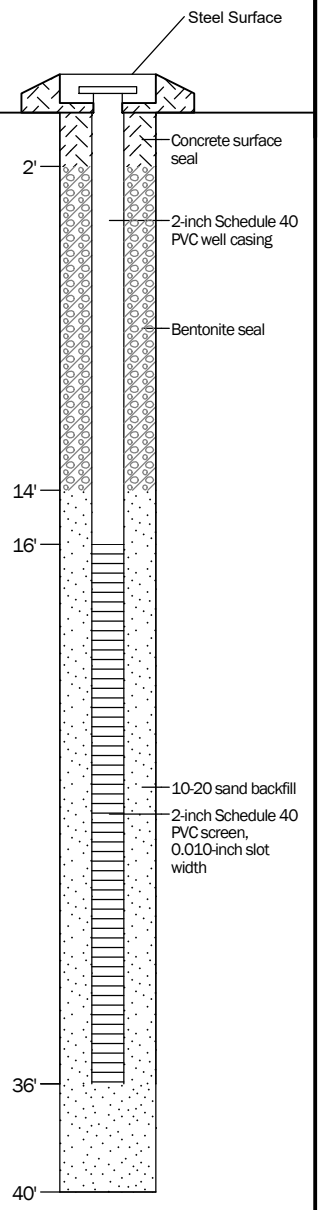
DOE Well I.D.: BQM 303
A 2-in well was installed on 12/19/2024 to a depth of 36 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
12/30/2024	20.55	413.80

Notes:

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Temperature (°F)	Collected Sample / Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
430	0							SM	Gray brown silty sand (moist)		
425	5										
420	10		120	63							
				62							
				64	FL358-MW-25 14-15						
415	15			63							
				69	FL358-MW-25 19-20				Becomes wet	NS	<1
410	20		120	70		▼					
				86							
				81				SP-SM	Brown sand with silt, gravel and cobbles (wet)		
405	25			95							
				104							
				103							
400	30		60	96				SP	Gray silty fine sand with gravel (wet)	NS	<1
				93						NS	<1
				115	FL358-MW-25 34-35			SP-SM	Gray sand with silt and gravel (moist to dry)	NS	<1
395	35		60	80						NS	<1
				76				SP-SM	Gray-brown sand with silt and gravel (moist) (glacial till)	NS	<1
	40			95						NS	<1

WELL LOG



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 2/24/2024. Vertical approximated based on Same.

Date:9/18/25 Path:P:\4\4082039\GINT\408203906.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIROMENTAL_WELL WITH TEMP NO BC

Log of Monitoring Well FL358-MW25

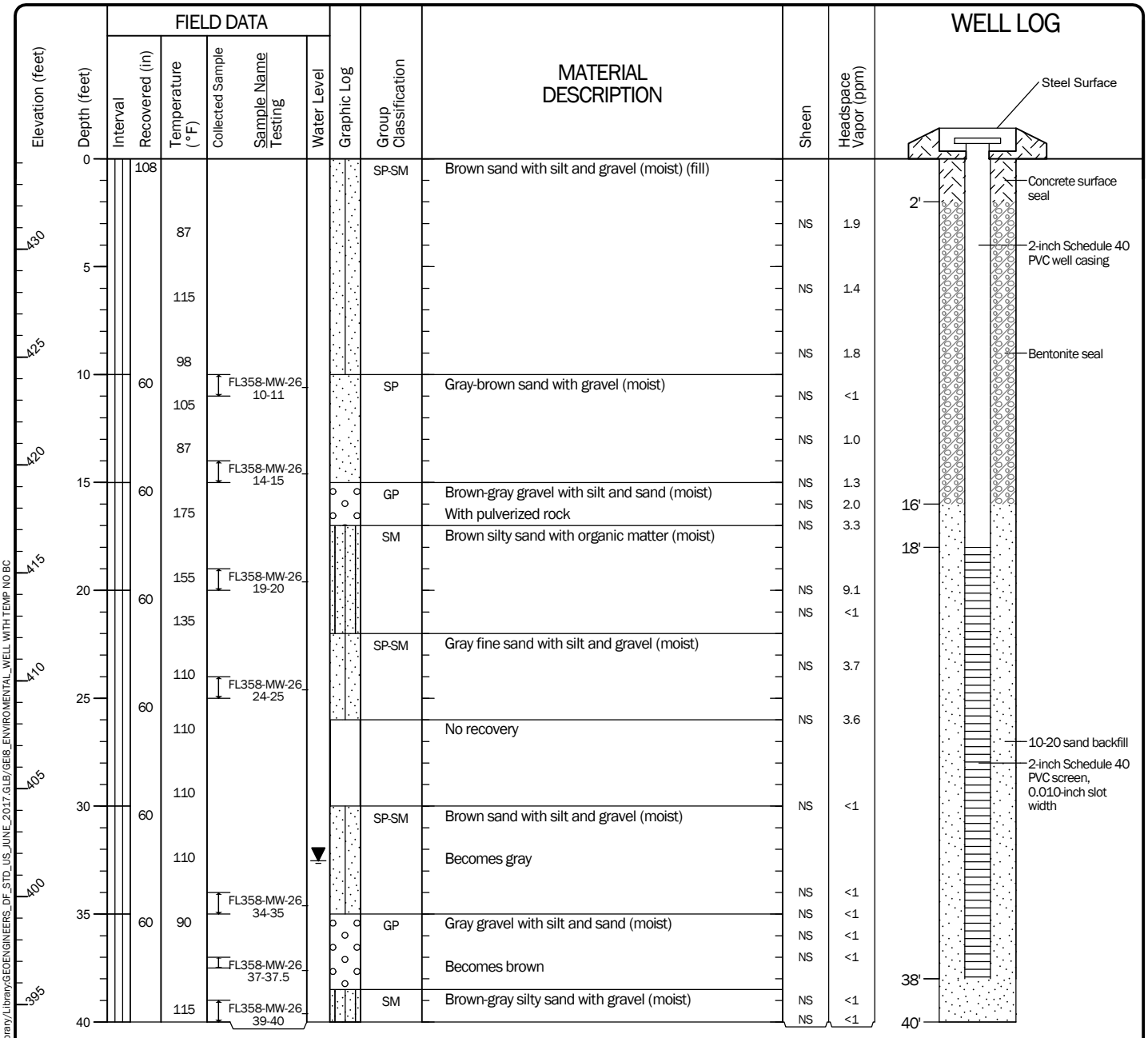
GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-06

Figure B-12
Sheet 1 of 1

Drilled Start 12/17/2024 End 12/17/2024	Total Depth (ft) 40	Logged By DDK/JAK Checked By TSD	Driller Magna Services	Drilling Method Sonic	
Hammer Data NA		Drilling Equipment Fraste SonicSamp Drill Rig		DOE Well I.D.: BQM 301	
Surface Elevation (ft) 434.19 Vertical Datum NAVD88		Top of Casing Elevation (ft) 437.35		A 2-in well was installed on 12/17/2024 to a depth of 38 ft.	
Easting (X) 1275345.58 Northing (Y) 119005.2		Horizontal Datum WA State Plane North NAD83 (feet)		Groundwater Date Measured: 12/30/2024	Depth to Water (ft): 32.53 — Elevation (ft): 404.82

Notes:



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 2/24/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW26

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-06

Figure B-13
Sheet 1 of 1

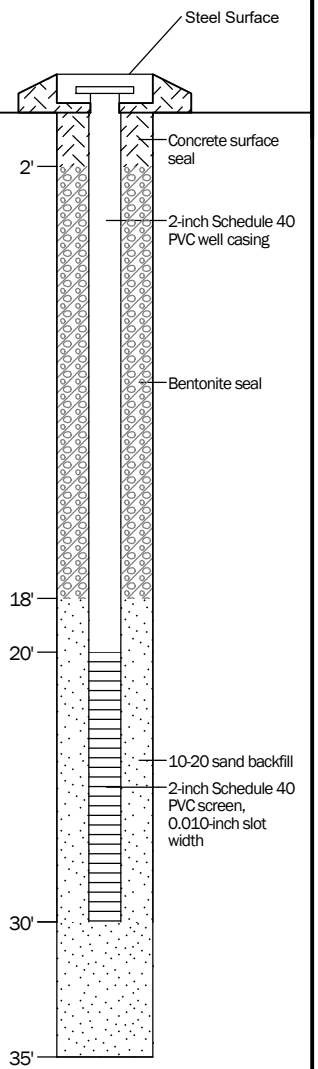
Date:9/18/25 Path:P:\4\4082039\GINT\408203906.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIROMENTAL_WELL WITH TEMP NO BC

Drilled Start 12/17/2024 End 12/17/2025	Total Depth (ft) 35	Logged By DDK/JAK Checked By TSD	Driller Magna Services	Drilling Method Sonic	
Hammer Data NA		Drilling Equipment Fraste SonicSamp Drill Rig		DOE Well I.D.: BQM 302 A 2-in well was installed on 12/17/2024 to a depth of 30 ft.	
Surface Elevation (ft) 432.04 Vertical Datum NAVD88		Top of Casing Elevation (ft) 435.04		Groundwater Date Measured: 12/30/2025	Depth to Water (ft): 23.05 Elevation (ft): 411.99
Easting (X) 1275336.67 Northing (Y) 118938.43		Horizontal Datum WA State Plane North NAD83 (feet)			

Notes:

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Temperature (°F)	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
430	0		60	50					SP-SM	Brown sand with silt and gravel (moist) (fill)	NS	<1
				60							NS	<1
	5		36	80					SP-SM	Brown-gray sand with silt and gravel (moist) (fill)	NS	<1
425				130						With gray pulverized rock	NS	<1
	10		60	90		FL358-MW-27 10-11			SP	Gray fine sand with silt and gravel (moist)	NS	<1
420									GP	Gray sandy gravel (moist)		
				105		FL358-MW-27 14-15					NS	<1
	15		42	40					SP-SM	Gray-brown fine sand with silt and occasional gravel (very moist)	NS	<1
415									SP	Gray sand with gravel (moist to dry)	NS	<1
				105					SP-SM	Dark gray fine sand with silt and occasional gravel (moist)		
	20		45.6	120		FL358-MW-27 19-20			SP-SM	Brown fine sand with silt, gravel and organic matter (moist)	NS	<1
410				115							NS	<1
				130			▼				NS	<1
						FL358-MW-27 24-25					NS	<1
	25		30	100						With pulverized rock (likely boulder)		
405									ML	Brown silt with sand and organic matter (moist)		
				105		FL358-MW-27 27-27.5					NS	<1
	30		60	80					ML	Gray silt with fine sand and occasional gravel; iron staining (moist)	NS	<1
400				71		FL358-MW-27 32-32.5			SM	Gray silty fine sand with occasional gravel (moist)		
									ML	Gray silt with sand and gravel (moist)		
	35			96							NS	<1

WELL LOG



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 2/24/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW27

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-06

Figure B-14
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203906.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIROMENTAL_WELL WITH TEMP NO BC

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	2/25/2025	2/25/2025	36.5	JX	TDB	Magna Services	Sonic

Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment	Fraste SonicSamp Drill Rig
Surface Elevation (ft) Vertical Datum	423.81 NAVD88	Top of Casing Elevation (ft)	427.10
Easting (X) Northing (Y)	1275160.69 118982.7	Horizontal Datum	WA State Plane North NAD83 (feet)

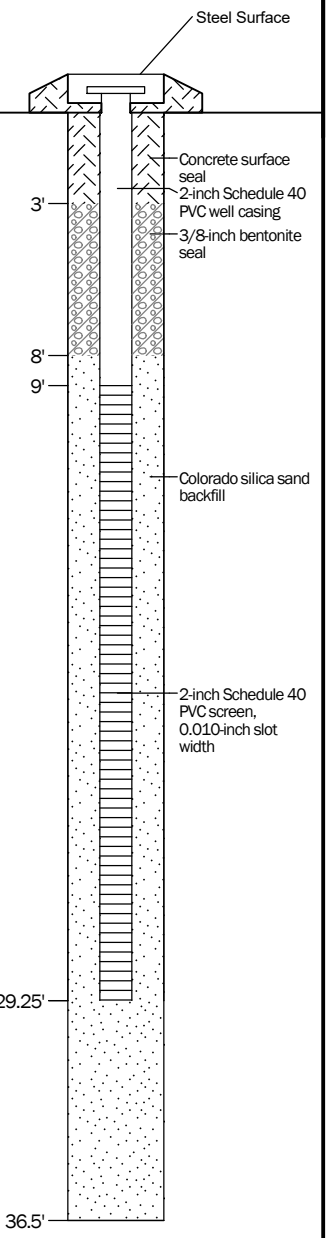
DOE Well I.D.: BQM 430
A 2-in well was installed on 2/25/2025 to a depth of 36.5 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
3/7/2025	12.06	411.75

Notes: Well installed as a stickup from the ground surface

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
420	0								SM	Gray brown silty sand with gravel (dense, moist) (fill)		
	5		0	48		1						
415	10		7	45		2 SA			ML	Dark brown silt with organic matter and wood (dense, moist)		
									CL	Grades without organic matter Gray lean clay with trace sand, gravel and organic matter (stiff, moist) (recessional lacustrine)		
410	15		9	15		3 AL				AL (LL=32; PI=13)		
405	20		10	17		4				Becomes very stiff		
400	25		7	23		5 AL; CA				AL (LL=25; PI=8)		
395									SM	Gray brown silty sand with gravel (dense, moist) (glacial till)		
	30		12	32		6 %F; CA						
390	35		6	50/5"		7				Becomes very dense		

WELL LOG



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 2/24/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW28

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-06

Figure B-15
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203906.GPJ DBLibrary:\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEI8_ENVIRONMENTAL_WELL

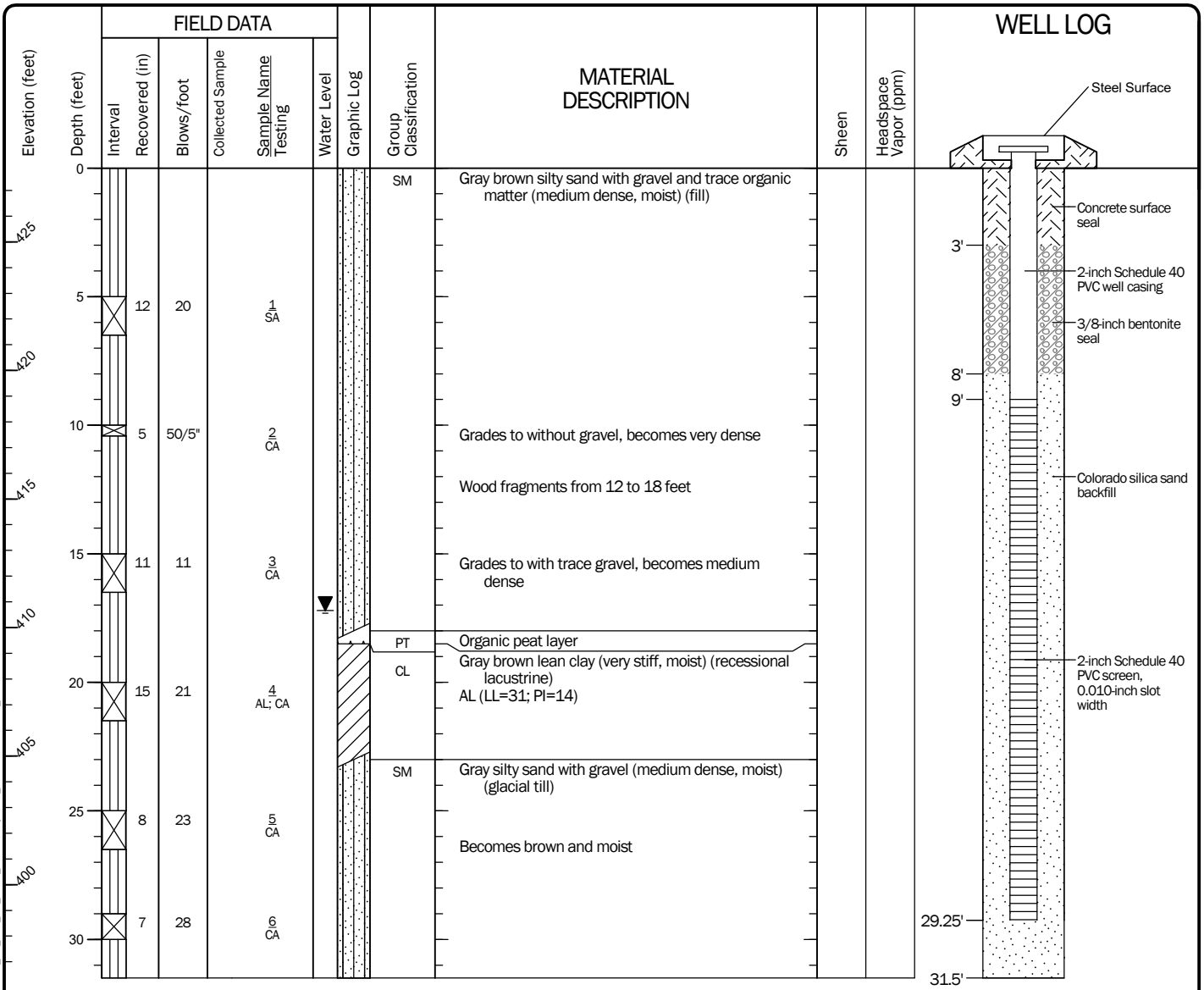
Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	2/24/2025	2/24/2025	31.5	JX	TDB	Magna Services	Sonic

Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment	Fraste SonicSamp Drill Rig
Surface Elevation (ft) Vertical Datum	427.87 NAVD88	Top of Casing Elevation (ft)	431.04
Easting (X) Northing (Y)	1275249.92 118966.15	Horizontal Datum	WA State Plane North NAD83 (feet)

DOE Well I.D.: BQM 431
A 2-in well was installed on 2/24/2025 to a depth of 31.5 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
3/7/2025	17.21	410.66

Notes: Well installed as a stickup from the ground surface



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 2/24/2024. Vertical approximated based on Same.

Log of Monitoring Well FL358-MW29

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-06

Figure B-13
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203906.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIRONMENTAL_WELL

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	2/25/2025	2/25/2025	36.5	JX	TDB	Magna Services	Sonic

Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop	Drilling Equipment	Fraste SonicSamp Drill Rig
Surface Elevation (ft) Vertical Datum	421.4 NAVD88	Top of Casing Elevation (ft)	424.55
Easting (X) Northing (Y)	1275158.68 118865.64	Horizontal Datum	WA State Plane North NAD83 (feet)

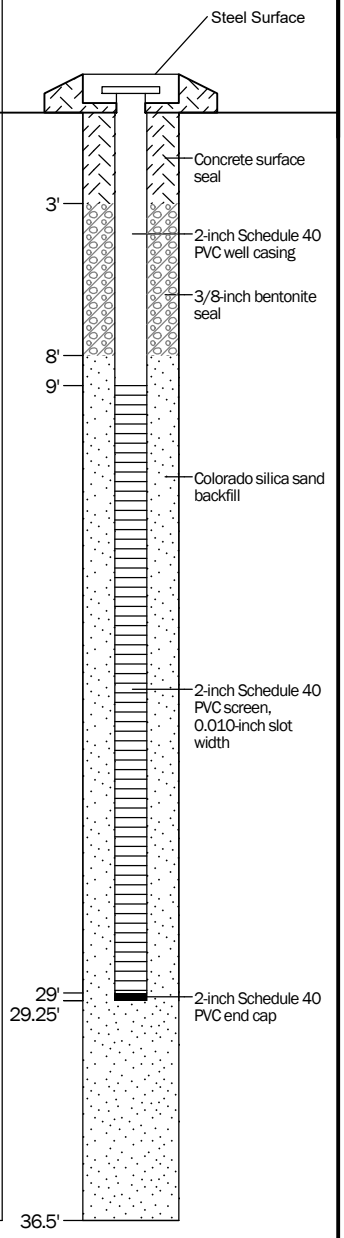
DOE Well I.D.: BQM 432
A 2-in well was installed on 2/25/2025 to a depth of 36.5 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
3/7/2025	13.51	407.89

Notes: Well installed as a stickup from the ground surface

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
420	0								SM	Gray brown silty sand with gravel (medium dense, moist) (fill)		
415	5		6	12		1						
410	10		9	29		2				Grades to with trace organic matter		
405	15		10	5		3				Becomes loose		
									OL	Dark brown organic soil (moist) (topsoil)		
									ML	Gray with oxidation staining sandy silt (medium dense, moist) (lacustrine)		
400	20		10	12		4 %F; CA						
									CL	Gray sandy clay with gravel and cobbles (medium stiff, wet)		
395	25		0	6		5						
									SC-SM	Gray silty, clayey sand with gravel (very loose, moist)		
390	30		13	WOH		6 %F, AL; CA				AL (LL=26; PI=5)		
									SM	Gray brown silty sand (dense, moist) (glacial till)		
385	35		5	45		7						

WELL LOG



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Survey by True North Land Surveying dated 2/24/2024. Vertical approximated based on Same.

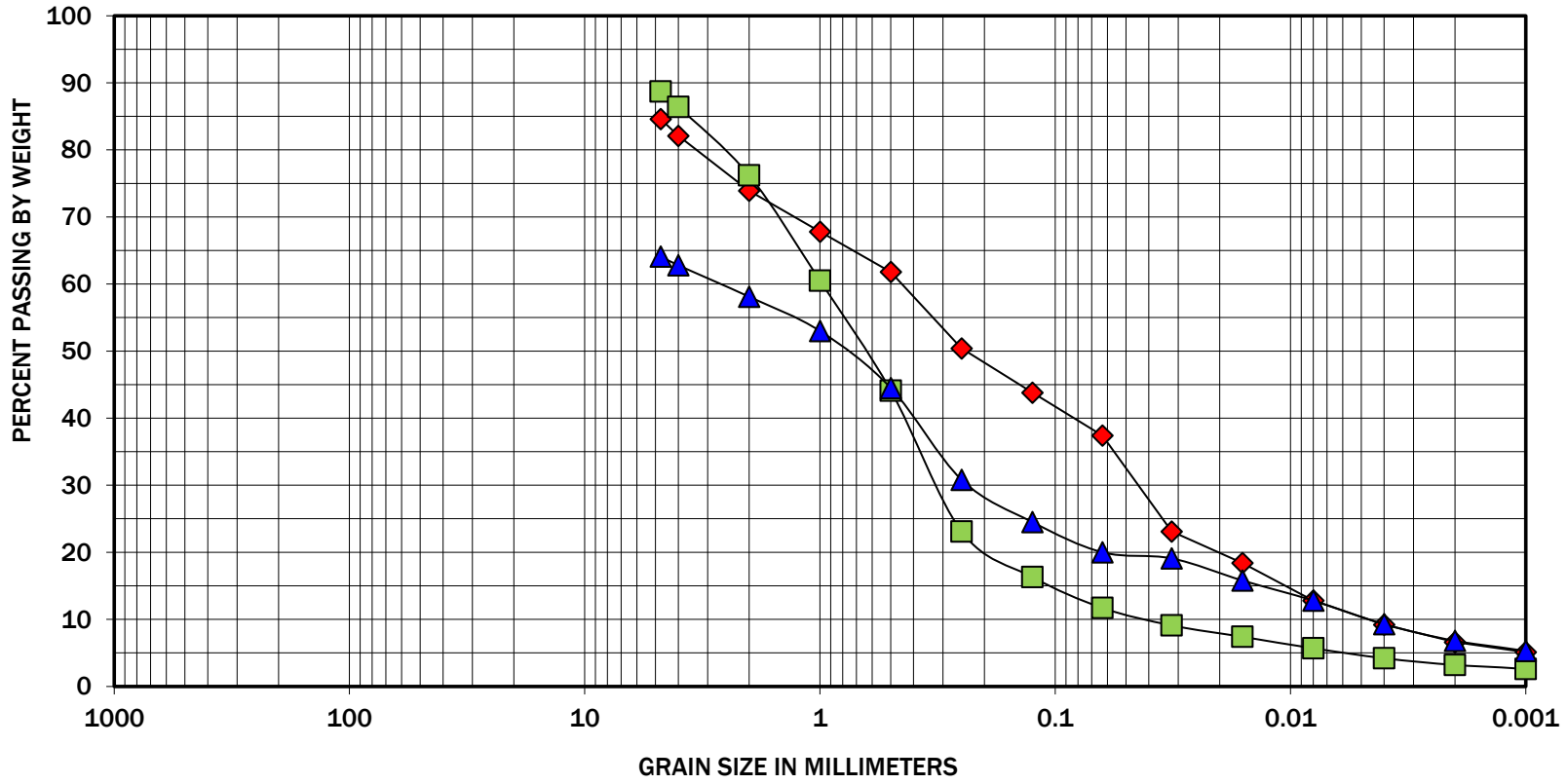
Log of Monitoring Well FL358-MW30

GeoEngineers

Project: Y Pay Mor Drycleaner Site Updated Remedial Investigation Addendum No. 1
Project Location: Federal Way, Washington
Project Number: 4082-039-06

Figure B-17
Sheet 1 of 1

Date:9/18/25 Path:P:\4\4082039\GINT\408203906.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIRONMENTAL_WELL



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Symbol	Boring Number	Depth (feet)	Moisture (%)	Soil Description
◆	FL358-MW18	25-26.5	16.4	Silty sand with gravel (SM)
■	FL358-MW18	35-36.5	13.7	Silty sand (SM)
▲	FL358-MW18	42.5-44	12.8	Silty sand with gravel (SM)

Note: This report may not be reproduced, except in full, without written approval of GeoEngineers, Inc. Test results are applicable only to the specific sample on which they were performed, and should not be interpreted as representative of any other samples obtained at other times, depths or locations, or generated by separate operations or processes.

The grain size analysis results were obtained in general accordance with ASTM D422.

GeoEngineers

Y Pay Mor Site
Federal Way, Washington

Grain Size Analysis Results

Figure B-15

Appendix C

Laboratory Analytical Reports

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 24, 2024

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-05 T200
Laboratory Reference No. 2409-135

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on September 11, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 11, 2024
Laboratory Reference: 2409-135
Project: 4082-039-05 T200

Case Narrative

Samples were collected on September 10 and 11, 2024 and received by the laboratory on September 11, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 11, 2024
Laboratory Reference: 2409-135
Project: 4082-039-05 T200

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW17-27.5-28	09-135-02	Soil	9-10-24	9-11-24	
FL358-MW17-32.5-34	09-135-03	Soil	9-10-24	9-11-24	
FL358-MW17-35-36	09-135-04	Soil	9-10-24	9-11-24	
FL358-MW17-40-41.5	09-135-06	Soil	9-10-24	9-11-24	
FL358-TB1-09112024	09-135-07	Water	---	9-11-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 11, 2024
Laboratory Reference: 2409-135
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW17_27.5-28**					
Laboratory ID:	09-135-02					
Vinyl Chloride	ND	0.00087	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.00087	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.00087	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.00087	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*69-124*				
Toluene-d8	*94*	*80-118*				
4-Bromofluorobenzene	*113*	*75-123*				
Client ID:	**FL358-MW17_32.5-34**					
Laboratory ID:	09-135-03					
Vinyl Chloride	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	0.0011	0.0010	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*69-124*				
Toluene-d8	*95*	*80-118*				
4-Bromofluorobenzene	*115*	*75-123*				
Client ID:	**FL358-MW17_35-36**					
Laboratory ID:	09-135-04					
Vinyl Chloride	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*69-124*				
Toluene-d8	*92*	*80-118*				
4-Bromofluorobenzene	*113*	*75-123*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 11, 2024
Laboratory Reference: 2409-135
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW17_40-41.5**					
Laboratory ID:	09-135-06					
Vinyl Chloride	ND	0.00085	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.00085	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.00085	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.00085	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.00085	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.00085	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*69-124*				
Toluene-d8	*91*	*80-118*				
4-Bromofluorobenzene	*111*	*75-123*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 11, 2024
Laboratory Reference: 2409-135
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-TB1-09112024**					
Laboratory ID:	09-135-07					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

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Date of Report: September 24, 2024
Samples Submitted: September 11, 2024
Laboratory Reference: 2409-135
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*69-124*				
Toluene-d8	*90*	*80-118*				
4-Bromofluorobenzene	*105*	*75-123*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0920S1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**0.0484**	**0.0480**	0.0500	0.0500	97	96	52-141	1	20	
1,1-Dichloroethene	**0.0518**	**0.0524**	0.0500	0.0500	104	105	74-133	1	16	
(trans) 1,2-Dichloroethene	**0.0505**	**0.0511**	0.0500	0.0500	101	102	74-131	1	15	
(cis) 1,2-Dichloroethene	**0.0532**	**0.0538**	0.0500	0.0500	106	108	71-136	1	15	
Trichloroethene	**0.0530**	**0.0540**	0.0500	0.0500	106	108	80-130	2	15	
Tetrachloroethene	**0.0504**	**0.0519**	0.0500	0.0500	101	104	80-130	3	15	
Surrogate:										
Dibromofluoromethane					*89*	*90*	*69-124*			
Toluene-d8					*86*	*88*	*80-118*			
4-Bromofluorobenzene					*109*	*111*	*75-123*			

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Date of Report: September 24, 2024
Samples Submitted: September 11, 2024
Laboratory Reference: 2409-135
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0920W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.24**	**9.16**	10.0	10.0	92	92	67-130	1	15	
1,1-Dichloroethene	**9.87**	**9.86**	10.0	10.0	99	99	74-125	0	15	
(trans) 1,2-Dichloroethene	**9.90**	**9.73**	10.0	10.0	99	97	77-125	2	15	
(cis) 1,2-Dichloroethene	**9.90**	**9.90**	10.0	10.0	99	99	78-130	0	15	
Trichloroethene	**11.3**	**11.3**	10.0	10.0	113	113	80-126	0	15	
Tetrachloroethene	**11.1**	**11.1**	10.0	10.0	111	111	80-125	0	15	
Surrogate:										
Dibromofluoromethane					*86*	*86*	*68-133*			
Toluene-d8					*98*	*100*	*79-123*			
4-Bromofluorobenzene					*103*	*105*	*78-117*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 11, 2024
Laboratory Reference: 2409-135
Project: 4082-039-05 T200

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
FL358-MW17_27.5-28	09-135-02	**12**	9-20-24
FL358-MW17_32.5-34	09-135-03	**15**	9-20-24
FL358-MW17_35-36	09-135-04	**17**	9-20-24
FL358-MW17_40-41.5	09-135-06	**9**	9-20-24

This report pertains to the samples analyzed in accordance with the chain of custody,
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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-05 Task 200
Project Name: FL358 - Well Installation
Project Manager: Brittany Waite and Tricia DeOme
Sampled by: James Kohn & Divya Khandelwal

Turnaround Request (in working days)

(Check One)

- ☐ Same Day ☐ 1 Day
- ☐ 2 Days ☐ 3 Days
- ■ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 09-135

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Hold	Project VOCs				% Moisture
1	FL358-MW 17_22.5-24	9/10/24	1545	S	4																X					
2	FL358-MW 17_27.5-29	9/10/24	1555	S																	X	X				X
3	FL358-MW 17_32.5-34	9/10/24	1620	S																	X	X				X
4	FL358-MW 17_35-36	9/10/24	1630	S																	X	X				X
5	FL358-MW 17_37.5-39	9/10/24	1645	S																	X					
6	FL358-MW 17_40-41.5	9/10/24	1655	S																	X	X				X
7	~~FL358-MW TB1-09112024~~	9/11/24	—	~~S~~ W	3																X	X				~~X~~
	FL358-MW	9/ /24		S																	X					
	FL358-MW	9/ /24		S																	X					
	FL358-MW	9/ /24		S																	X					

	Signature	Company	Date	Time
Relinquished	DIVYA KHANDELWAL DK	9E1	9/11/24	1658
Received		OSE	9/11/24	1658
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Physiochemical parameters include Grain size distribution by ASTM Method D 421/D422, pH by EPA 9045D, Bulk density by ASTM Method D 7263, and TOC by SM 9060.

(X) Added 9/19/24 BCO STA

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 11, 2024

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-05 T200
Laboratory Reference No. 2409-164

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on September 13, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 11, 2024
Samples Submitted: September 13, 2024
Laboratory Reference: 2409-164
Project: 4082-039-05 T200

Case Narrative

Samples were collected on September 12, 2024 and received by the laboratory on September 13, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

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Date of Report: October 11, 2024
Samples Submitted: September 13, 2024
Laboratory Reference: 2409-164
Project: 4082-039-05 T200

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW18_20-21.5	09-164-01	Soil	9-12-24	9-13-24	
FL358-MW18_25-26.5	09-164-02	Soil	9-12-24	9-13-24	
FL358-MW18_27.5-29	09-164-03	Soil	9-12-24	9-13-24	
FL358-MW18_30-31.5	09-164-04	Soil	9-12-24	9-13-24	
FL358-MW18_35-36.5	09-164-06	Soil	9-12-24	9-13-24	
FL358-MW18_42.5-44	09-164-09	Soil	9-12-24	9-13-24	
FL358-TB-1-091224	09-164-10	Water	---	9-13-24	
FL358-MW15_27.5-29	09-164-12	Soil	9-12-24	9-13-24	
FL358-MW15_30-31.5	09-164-13	Soil	9-12-24	9-13-24	
FL358-MW15_35-36.5	09-164-15	Soil	9-12-24	9-13-24	
FL358-MW15_40-41.5	09-164-16	Soil	9-12-24	9-13-24	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 11, 2024
Samples Submitted: September 13, 2024
Laboratory Reference: 2409-164
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW18_20-21.5**					
Laboratory ID:	09-164-01					
Vinyl Chloride	ND	0.00073	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.00073	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.00073	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.00073	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.00073	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.00073	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*69-124*				
Toluene-d8	*91*	*80-118*				
4-Bromofluorobenzene	*110*	*75-123*				
Client ID:	**FL358-MW18_25-26.5**					
Laboratory ID:	09-164-02					
Vinyl Chloride	ND	0.00091	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.00091	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.00091	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.00091	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*69-124*				
Toluene-d8	*92*	*80-118*				
4-Bromofluorobenzene	*112*	*75-123*				
Client ID:	**FL358-MW18_27.5-29**					
Laboratory ID:	09-164-03					
Vinyl Chloride	ND	0.0021	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.0021	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.0021	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.0021	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.0021	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.0021	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*85*	*69-124*				
Toluene-d8	*90*	*80-118*				
4-Bromofluorobenzene	*110*	*75-123*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 11, 2024
Samples Submitted: September 13, 2024
Laboratory Reference: 2409-164
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW18_30-31.5**					
Laboratory ID:	09-164-04					
Vinyl Chloride	ND	0.0014	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.0014	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.0014	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.0014	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*69-124*				
Toluene-d8	*90*	*80-118*				
4-Bromofluorobenzene	*109*	*75-123*				
Client ID:	**FL358-MW18_42.5-44**					
Laboratory ID:	09-164-09					
Vinyl Chloride	ND	0.0011	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.0011	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.0011	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*69-124*				
Toluene-d8	*91*	*80-118*				
4-Bromofluorobenzene	*111*	*75-123*				
Client ID:	**FL358-MW15_27.5-29**					
Laboratory ID:	09-164-12					
Vinyl Chloride	ND	0.00079	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.00079	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.00079	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.00079	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.00079	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.00079	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*69-124*				
Toluene-d8	*92*	*80-118*				
4-Bromofluorobenzene	*112*	*75-123*				

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Date of Report: October 11, 2024
Samples Submitted: September 13, 2024
Laboratory Reference: 2409-164
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW15_30-31.5**					
Laboratory ID:	09-164-13					
Vinyl Chloride	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.00099	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*69-124*				
Toluene-d8	*90*	*80-118*				
4-Bromofluorobenzene	*112*	*75-123*				
Client ID:	**FL358-MW15_35-36.5**					
Laboratory ID:	09-164-15					
Vinyl Chloride	ND	0.00095	EPA 8260D	9-21-24	9-21-24	
1,1-Dichloroethene	ND	0.00095	EPA 8260D	9-21-24	9-21-24	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	9-21-24	9-21-24	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	9-21-24	9-21-24	
Trichloroethene	ND	0.00095	EPA 8260D	9-21-24	9-21-24	
Tetrachloroethene	ND	0.00095	EPA 8260D	9-21-24	9-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*69-124*				
Toluene-d8	*104*	*80-118*				
4-Bromofluorobenzene	*92*	*75-123*				
Client ID:	**FL358-MW15_40-41.5**					
Laboratory ID:	09-164-16					
Vinyl Chloride	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
Trichloroethene	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*69-124*				
Toluene-d8	*107*	*80-118*				
4-Bromofluorobenzene	*92*	*75-123*				

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Date of Report: October 11, 2024
Samples Submitted: September 13, 2024
Laboratory Reference: 2409-164
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-TB-1-091224**					
Laboratory ID:	09-164-10					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*68-133*				
Toluene-d8	*97*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				

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Date of Report: October 11, 2024
Samples Submitted: September 13, 2024
Laboratory Reference: 2409-164
Project: 4082-039-05 T200

pH
EPA 9045D

Matrix: Soil
Units: pH (@ 25ºC)

Analyte	Result	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW18_25-26.5**				
Laboratory ID:	09-164-02				
pH	**6.3**	EPA 9045D	9-25-24	9-25-24	
Client ID:	**FL358-MW18_35-36.5**				
Laboratory ID:	09-164-06				
pH	**6.1**	EPA 9045D	9-25-24	9-25-24	
Client ID:	**FL358-MW18_42.5-44**				
Laboratory ID:	09-164-09				
pH	**7.9**	EPA 9045D	9-25-24	9-25-24	

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Date of Report: October 11, 2024
Samples Submitted: September 13, 2024
Laboratory Reference: 2409-164
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*69-124*				
Toluene-d8	*90*	*80-118*				
4-Bromofluorobenzene	*105*	*75-123*				
Laboratory ID:	MB0921S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
Trichloroethene	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-21-24	9-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*110*	*69-124*				
Toluene-d8	*102*	*80-118*				
4-Bromofluorobenzene	*95*	*75-123*				

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Date of Report: October 11, 2024
Samples Submitted: September 13, 2024
Laboratory Reference: 2409-164
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0920S1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**0.0484**	**0.0480**	0.0500	0.0500	97	96	52-141	1	20	
1,1-Dichloroethene	**0.0518**	**0.0524**	0.0500	0.0500	104	105	74-133	1	16	
(trans) 1,2-Dichloroethene	**0.0505**	**0.0511**	0.0500	0.0500	101	102	74-131	1	15	
(cis) 1,2-Dichloroethene	**0.0532**	**0.0538**	0.0500	0.0500	106	108	71-136	1	15	
Trichloroethene	**0.0530**	**0.0540**	0.0500	0.0500	106	108	80-130	2	15	
Tetrachloroethene	**0.0504**	**0.0519**	0.0500	0.0500	101	104	80-130	3	15	
Surrogate:										
Dibromofluoromethane					*89*	*90*	*69-124*			
Toluene-d8					*86*	*88*	*80-118*			
4-Bromofluorobenzene					*109*	*111*	*75-123*			
Laboratory ID:	SB0921S1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**0.0480**	**0.0451**	0.0500	0.0500	96	90	52-141	6	20	
1,1-Dichloroethene	**0.0531**	**0.0498**	0.0500	0.0500	106	100	74-133	6	16	
(trans) 1,2-Dichloroethene	**0.0513**	**0.0492**	0.0500	0.0500	103	98	74-131	4	15	
(cis) 1,2-Dichloroethene	**0.0537**	**0.0516**	0.0500	0.0500	107	103	71-136	4	15	
Trichloroethene	**0.0561**	**0.0530**	0.0500	0.0500	112	106	80-130	6	15	
Tetrachloroethene	**0.0525**	**0.0516**	0.0500	0.0500	105	103	80-130	2	15	
Surrogate:										
Dibromofluoromethane					*119*	*108*	*69-124*			
Toluene-d8					*109*	*99*	*80-118*			
4-Bromofluorobenzene					*112*	*103*	*75-123*			

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 11, 2024
Samples Submitted: September 13, 2024
Laboratory Reference: 2409-164
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0920W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.24**	**9.16**	10.0	10.0	92	92	67-130	1	15	
1,1-Dichloroethene	**9.87**	**9.86**	10.0	10.0	99	99	74-125	0	15	
(trans) 1,2-Dichloroethene	**9.90**	**9.73**	10.0	10.0	99	97	77-125	2	15	
(cis) 1,2-Dichloroethene	**9.90**	**9.90**	10.0	10.0	99	99	78-130	0	15	
Trichloroethene	**11.3**	**11.3**	10.0	10.0	113	113	80-126	0	15	
Tetrachloroethene	**11.1**	**11.1**	10.0	10.0	111	111	80-125	0	15	
Surrogate:										
Dibromofluoromethane					*86*	*86*	*68-133*			
Toluene-d8					*98*	*100*	*79-123*			
4-Bromofluorobenzene					*103*	*105*	*78-117*			

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Date of Report: October 11, 2024
Samples Submitted: September 13, 2024
Laboratory Reference: 2409-164
Project: 4082-039-05 T200

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
FL358-MW18_20-21.5	09-164-01	**7**	9-20-24
FL358-MW18_25-26.5	09-164-02	**20**	9-20-24
FL358-MW18_27.5-29	09-164-03	**47**	9-20-24
FL358-MW18_30-31.5	09-164-04	**45**	9-20-24
FL358-MW18_42.5-44	09-164-09	**12**	9-20-24
FL358-MW15_27.5-29	09-164-12	**10**	9-20-24
FL358-MW15_30-31.5	09-164-13	**7**	9-20-24
FL358-MW15_35-36.5	09-164-15	**10**	9-20-24
FL358-MW15_40-41.5	09-164-16	**9**	9-20-24

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

October 11, 2024

David Baumeister
14648 NE 95th ST
Redmond, WA 98052

Project: OSE
Project Number: 4082-039-05 Task 200
Project Manager: David Baumeister
RE: OSE

Enclosed are the results of analyses for samples received by our laboratory on 9/20/2024.
Please feel free to contact me with any questions or considerations regarding this report.

Sincerely,

Aaron Young
President

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/20/24
Date Reported: 10/11/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-05 Task 200

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A24I0393-01	FL358-MW18_25-26.5	Solid		09/12/2024	09/20/2024
A24I0393-02	FL358-MW18_35-36.5	Solid		09/12/2024	09/20/2024
A24I0393-03	FL358-MW18_42.5-44	Solid		09/12/2024	09/20/2024

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 09/20/24
Date Reported: 10/11/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-05 Task 200

AMTEST Identification Number: A24I0393-01
Client Identification: FL358-MW18_25-26.5
Sampling Date: 09/12/24 11:15

Conventional Chemistry Parameters by APHA/EPA Methods

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
% Solids	83.6	%			SM 2540G_2011	HV	10/10/2024
Bulk Density	0.63	g/cm3		0.10	SM 2710	HV	10/11/2024
Total Organic Carbon (TOC)	3.99	%		0.0500	EPA 9060A_1_2004	NN	10/09/2024

Full Grain Size (Hydrometer/Sieve)

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
PHI -2.25 (4.75 mm) Gravel	15.4	%		0.100	ASTM D422	HV	10/10/2024
PHI -2.00 (4.00 mm)	3.50	%		0.100	ASTM D422	HV	10/10/2024
PHI -1.00 (2.00 mm)	8.20	%		0.100	ASTM D422	HV	10/10/2024
PHI 0.00 (1.00 mm) Sand	6.10	%		0.100	ASTM D422	HV	10/10/2024
PHI +1.00 (0.50 mm)	6.00	%		0.100	ASTM D422	HV	10/10/2024
PHI +2.00 (0.25 mm)	11.4	%		0.100	ASTM D422	HV	10/10/2024
PHI +3.00 (0.125 mm)	6.60	%		0.100	ASTM D422	HV	10/10/2024
PHI +4.00 (0.063 mm)	6.40	%		0.100	ASTM D422	HV	10/10/2024
PHI +5.00 (0.032 mm) Silt	14.3	%		0.100	ASTM D422	HV	10/10/2024
PHI +6.00 (0.016 mm)	4.70	%		0.100	ASTM D422	HV	10/10/2024
PHI +7.00 (0.008 mm)	5.60	%		0.100	ASTM D422	HV	10/10/2024
PHI +8.00 (0.004 mm)	3.60	%		0.100	ASTM D422	HV	10/10/2024
PHI +9.00 (0.002 mm) Clay	2.60	%		0.100	ASTM D422	HV	10/10/2024
PHI +10.0 (0.001 mm)	1.50	%		0.100	ASTM D422	HV	10/10/2024
PHI >10.0 (< 0.001 mm)	4.20	%		0.100	ASTM D422	HV	10/10/2024

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ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/20/24
Date Reported: 10/11/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-05 Task 200

AMTEST Identification Number: A24I0393-02
Client Identification: FL358-MW18_35-36.5
Sampling Date: 09/12/24 11:45

Conventional Chemistry Parameters by APHA/EPA Methods

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
% Solids	86.3	%			SM 2540G_2011	HV	10/10/2024
Bulk Density	0.89	g/cm3		0.10	SM 2710	HV	10/11/2024
Total Organic Carbon (TOC)	0.300	%		0.0500	EPA 9060A_1_2004	NN	10/09/2024

Full Grain Size (Hydrometer/Sieve)

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
PHI -2.25 (4.75 mm) Gravel	11.3	%		0.100	ASTM D422	HV	10/10/2024
PHI -2.00 (4.00 mm)	2.30	%		0.100	ASTM D422	HV	10/10/2024
PHI -1.00 (2.00 mm)	10.2	%		0.100	ASTM D422	HV	10/10/2024
PHI 0.00 (1.00 mm) Sand	15.7	%		0.100	ASTM D422	HV	10/10/2024
PHI +1.00 (0.50 mm)	16.4	%		0.100	ASTM D422	HV	10/10/2024
PHI +2.00 (0.25 mm)	21.0	%		0.100	ASTM D422	HV	10/10/2024
PHI +3.00 (0.125 mm)	6.80	%		0.100	ASTM D422	HV	10/10/2024
PHI +4.00 (0.063 mm)	4.60	%		0.100	ASTM D422	HV	10/10/2024
PHI +5.00 (0.032 mm) Silt	2.60	%		0.100	ASTM D422	HV	10/10/2024
PHI +6.00 (0.016 mm)	1.70	%		0.100	ASTM D422	HV	10/10/2024
PHI +7.00 (0.008 mm)	1.70	%		0.100	ASTM D422	HV	10/10/2024
PHI +8.00 (0.004 mm)	1.50	%		0.100	ASTM D422	HV	10/10/2024
PHI +9.00 (0.002 mm) Clay	1.00	%		0.100	ASTM D422	HV	10/10/2024
PHI +10.0 (0.001 mm)	0.600	%		0.100	ASTM D422	HV	10/10/2024
PHI >10.0 (< 0.001 mm)	2.70	%		0.100	ASTM D422	HV	10/10/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/20/24
Date Reported: 10/11/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-05 Task 200

AMTEST Identification Number: A24I0393-03
Client Identification: FL358-MW18_42.5-44
Sampling Date: 09/12/24 12:50

Conventional Chemistry Parameters by APHA/EPA Methods

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
% Solids	87.2	%			SM 2540G_2011	HV	10/10/2024
Bulk Density	0.95	g/cm3		0.10	SM 2710	HV	10/11/2024
Total Organic Carbon (TOC)	0.0700	%		0.0500	EPA 9060A_1_2004	NN	10/09/2024

Full Grain Size (Hydrometer/Sieve)

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
PHI -2.25 (4.75 mm) Gravel	35.9	%		0.100	ASTM D422	HV	10/10/2024
PHI -2.00 (4.00 mm)	1.30	%		0.100	ASTM D422	HV	10/10/2024
PHI -1.00 (2.00 mm)	4.70	%		0.100	ASTM D422	HV	10/10/2024
PHI 0.00 (1.00 mm) Sand	5.10	%		0.100	ASTM D422	HV	10/10/2024
PHI +1.00 (0.50 mm)	8.50	%		0.100	ASTM D422	HV	10/10/2024
PHI +2.00 (0.25 mm)	13.7	%		0.100	ASTM D422	HV	10/10/2024
PHI +3.00 (0.125 mm)	6.30	%		0.100	ASTM D422	HV	10/10/2024
PHI +4.00 (0.063 mm)	4.50	%		0.100	ASTM D422	HV	10/10/2024
PHI +5.00 (0.032 mm) Silt	0.900	%		0.100	ASTM D422	HV	10/10/2024
PHI +6.00 (0.016 mm)	3.30	%		0.100	ASTM D422	HV	10/10/2024
PHI +7.00 (0.008 mm)	3.00	%		0.100	ASTM D422	HV	10/10/2024
PHI +8.00 (0.004 mm)	3.50	%		0.100	ASTM D422	HV	10/10/2024
PHI +9.00 (0.002 mm) Clay	2.50	%		0.100	ASTM D422	HV	10/10/2024
PHI +10.0 (0.001 mm)	1.50	%		0.100	ASTM D422	HV	10/10/2024
PHI >10.0 (< 0.001 mm)	5.20	%		0.100	ASTM D422	HV	10/10/2024

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 09/20/24
Date Reported: 10/11/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-05 Task 200

Quality Control

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBJ0154 - No Prep - WC Soil										
Blank (BBJ0154-BLK1)					Prepared: 10/08/24 Analyzed: 10/09/24					
Total Organic Carbon (TOC)	ND	U	0.0500	%						
Calibration Blank (BBJ0154-CCB1)					Prepared: 10/08/24 Analyzed: 10/09/24					
Total Organic Carbon (TOC)	0	U		%						
Calibration Check (BBJ0154-CCV1)					Prepared: 10/08/24 Analyzed: 10/09/24					
Total Organic Carbon (TOC)	47.0		0.0500	%	50.00		94%	85-115%		
Batch: BBJ0211 - No Prep - WC Soil										
Duplicate (BBJ0211-DUP1)		**Source: A24I0279-11**			Prepared & Analyzed: 10/10/24					
% Solids	37.2			%		38.2			2	20
Duplicate (BBJ0211-DUP2)		**Source: A24I0279-11**			Prepared & Analyzed: 10/10/24					
% Solids	36.5			%		38.2			5	20

Quality Control

Full Grain Size (Hydrometer/Sieve)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBJ0212 - Hydrometer/Sieve										
Duplicate (BBJ0212-DUP1)		**Source: A24I0279-11**			Prepared: 10/09/24 Analyzed: 10/10/24					
PHI +1.00 (0.50 mm)	0.100		0.100	%		ND			200	200
PHI +10.0 (0.001 mm)	7.60		0.100	%		8.40			10	200
PHI +2.00 (0.25 mm)	0.100		0.100	%		0.100			0	200
PHI +3.00 (0.125 mm)	ND		0.100	%		0.100			200	200
PHI +4.00 (0.063 mm)	0.100		0.100	%		0.300			100	200
PHI +5.00 (0.032 mm) Silt	16.7		0.100	%		18.1			8	200
PHI +6.00 (0.016 mm)	9.30		0.100	%		5.00			60	200
PHI +7.00 (0.008 mm)	15.1		0.100	%		16.3			8	200
PHI +8.00 (0.004 mm)	19.3		0.100	%		20.8			7	200
PHI +9.00 (0.002 mm) Clay	13.7		0.100	%		14.0			2	200

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 09/20/24
Date Reported: 10/11/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-05 Task 200

Quality Control
(Continued)

Full Grain Size (Hydrometer/Sieve) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBJ0212 - Hydrometer/Sieve (Continued)										
Duplicate (BBJ0212-DUP1)		**Source: A24I0279-11**			Prepared: 10/09/24 Analyzed: 10/10/24					
PHI >10.0 (< 0.001 mm)	17.9		0.100	%		16.5			8	200
PHI 0.00 (1.00 mm) Sand	ND		0.100	%		ND				200
PHI -1.00 (2.00 mm)	ND		0.100	%		0.100			200	200
PHI -2.00 (4.00 mm)	ND		0.100	%		ND				200
PHI -2.25 (4.75 mm) Gravel	ND		0.100	%		0.100			200	200
Duplicate (BBJ0212-DUP2)		**Source: A24I0279-11**			Prepared: 10/09/24 Analyzed: 10/10/24					
PHI +1.00 (0.50 mm)	0.300		0.100	%		ND			200	200
PHI +10.0 (0.001 mm)	9.10		0.100	%		8.40			8	200
PHI +2.00 (0.25 mm)	ND		0.100	%		0.100			200	200
PHI +3.00 (0.125 mm)	ND		0.100	%		0.100			200	200
PHI +4.00 (0.063 mm)	0.300		0.100	%		0.300			0	200
PHI +5.00 (0.032 mm) Silt	21.5		0.100	%		18.1			17	200
PHI +6.00 (0.016 mm)	9.40		0.100	%		5.00			61	200
PHI +7.00 (0.008 mm)	10.5		0.100	%		16.3			43	200
PHI +8.00 (0.004 mm)	19.5		0.100	%		20.8			6	200
PHI +9.00 (0.002 mm) Clay	14.8		0.100	%		14.0			6	200
PHI >10.0 (< 0.001 mm)	14.8		0.100	%		16.5			11	200
PHI 0.00 (1.00 mm) Sand	ND		0.100	%		ND				200
PHI -1.00 (2.00 mm)	ND		0.100	%		0.100			200	200
PHI -2.00 (4.00 mm)	ND		0.100	%		ND				200
PHI -2.25 (4.75 mm) Gravel	ND		0.100	%		0.100			200	200

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ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/20/24
Date Reported: 10/11/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-05 Task 200

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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A24I0393

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 09-164

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-05 Task 200

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW18_25-26.5	9/12/24	11:15	Soil	2	Grain Size ASTM D421/D422, Bulk Density, TOC
02	FL358-MW18_35-36.5	9/12/24	11:45	Soil	2	Grain Size ASTM D421/D422, Bulk Density, TOC
03	FL358-MW18_42.5-44	9/12/24	12:50	Soil	2	Grain Size ASTM D421/D422, Bulk Density, TOC

Ag 10/8/24

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	9/20/24	2:10 PM	
Received by: IL	AmTest	9/20/24	14:00	10.7°C
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-05 Task 200
Project Name: FL358 - Well Installation
Project Manager: Brittany Waite and Tricia DeOme
Sampled by: James Kohn & Divya Khandelwal

Turnaround Request (in working days)

(Check One)

- ☐ Same Day ☐ 1 Day
- ☐ 2 Days ☐ 3 Days
- ■ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 09-164

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Hold	Project VOCs	Physiochemical Par.				% Moisture
1	FL358-MW18_20-21.5	9/12/24	1110	S	4																X	X					X
2	FL358-MW18_25-26.5	9/12/24	1115	S	6																X	X	X				X
3	FL358-MW18_27.5-29	9/12/24	1125	S	4																X	X					X
4	FL358-MW18_30-31.5	9/12/24	1130	S	4																X	X					X
5	FL358-MW18_32.5-34	9/12/24	1137	S	4																X						
6	FL358-MW18_35-36.5	9/12/24	1145	S	6																X		X				
7	FL358-MW18_37.5-39	9/12/24	1150	S	4																X						
8	FL358-MW18_40-41.5	9/12/24	1240	S	4																X						
9	FL358-MW18_42.5-44	9/12/24	1250	S	6																X	X	X				X
10	~~FL358-MW18~~ FL358-TB-091224	9/12/24	—	S W	3																X	X					

	Signature	Company	Date	Time
Relinquished	DIVYA KHANDELWAL	GEI	9/13/24	0850
Received	Nicholas Arnold	OSE	9/13/24	0850
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Physiochemical parameters include Grain size distribution by ASTM Method D 421/D422, pH by EPA 9045D, Bulk density by ASTM Method D 7263, and TOC by SM 9060.

(X) Added 9/19/24 JC STA

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-05 Task 200
Project Name: FL358 - Well Installation
Project Manager: Brittany Waite and Tricia DeOme
Sampled by: James Kohn & Divya Khandelwal

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
■ Standard (7 Days)
(TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 09-164

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Hold	Project VOC	Physiochemical Per Note 1				% Moisture
11	FL358-MW15-20-21.5	9/12/24	1557	S	4																X						
12	FL358-MW15-27.5-29	9/12/24	1645	S	4																X	(X)					(X)
13	FL358-MW15-30-31.5	9/12/24	1650	S	4																X	(X)					(X)
14	FL358-MW15-32.5-34	9/12/24	1657	S	4																X						
15	FL358-MW15-35-36.5	9/12/24	1705	S	4																X	(X)					(X)
16	FL358-MW15-40-41.5	9/12/24	1725	S	4																X	(X)					(X)
	~~FL358-MW15~~	~~9/12/24~~		S	4																X						X
	FL358-MW	9/ /24		S																	X						
	FL358-MW	9/ /24		S																	X						
	FL358-MW	9/ /24		S																	X						

	Signature	Company	Date	Time
Relinquished	DIVYA K.	GEI	09/13/24	0850
Received	Nichole Bpm	TSE	9/13/24	0850
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Physiochemical parameters include Grain size distribution by ASTM Method D 421/D422, pH by EPA 9045D, Bulk density by ASTM Method D 7263, and TOC by SM 9060.

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 24, 2024

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-05 T200
Laboratory Reference No. 2409-258

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on September 20, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-258
Project: 4082-039-05 T200

Case Narrative

Samples were collected on September 20, 2024 and received by the laboratory on September 20, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-258
Project: 4082-039-05 T200

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
IDW-SOIL-1	09-258-01	Soil	9-20-24	9-20-24	
IDW-SOIL-2	09-258-02	Soil	9-20-24	9-20-24	
IDW-WATER-1	09-258-04	Water	9-20-24	9-20-24	
IDW-WATER-2	09-258-05	Water	9-20-24	9-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-258
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IDW-SOIL-1**					
Laboratory ID:	09-258-01					
Vinyl Chloride	ND	0.0041	EPA 8260D	9-24-24	9-24-24	
1,1-Dichloroethene	ND	0.00083	EPA 8260D	9-24-24	9-24-24	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260D	9-24-24	9-24-24	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260D	9-24-24	9-24-24	
Trichloroethene	ND	0.00083	EPA 8260D	9-24-24	9-24-24	
Tetrachloroethene	ND	0.00083	EPA 8260D	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*69-124*				
Toluene-d8	*104*	*80-118*				
4-Bromofluorobenzene	*99*	*75-123*				
Client ID:	**IDW-SOIL-2**					
Laboratory ID:	09-258-02					
Vinyl Chloride	ND	0.0050	EPA 8260D	9-24-24	9-24-24	
1,1-Dichloroethene	ND	0.00099	EPA 8260D	9-24-24	9-24-24	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	9-24-24	9-24-24	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	9-24-24	9-24-24	
Trichloroethene	ND	0.00099	EPA 8260D	9-24-24	9-24-24	
Tetrachloroethene	ND	0.00099	EPA 8260D	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*69-124*				
Toluene-d8	*103*	*80-118*				
4-Bromofluorobenzene	*98*	*75-123*				

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Date of Report: September 24, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-258
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IDW-WATER-1**					
Laboratory ID:	09-258-04					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	9-24-24	9-24-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-24-24	9-24-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-24-24	9-24-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-24-24	9-24-24	
Trichloroethene	ND	2.0	EPA 8260D	9-24-24	9-24-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**IDW-WATER-2**					
Laboratory ID:	09-258-05					
Vinyl Chloride (SIM)	0.21	0.20	EPA 8260D/SIM	9-24-24	9-24-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-24-24	9-24-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-24-24	9-24-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-24-24	9-24-24	
Trichloroethene	ND	2.0	EPA 8260D	9-24-24	9-24-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-258
Project: 4082-039-05 T200

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IDW-SOIL-1**					
Laboratory ID:	09-258-01					
Arsenic	**ND**	12	EPA 6010D	9-24-24	9-24-24	
Barium	**58**	3.0	EPA 6010D	9-24-24	9-24-24	
Cadmium	**ND**	0.60	EPA 6010D	9-24-24	9-24-24	
Chromium	**26**	0.60	EPA 6010D	9-24-24	9-24-24	
Copper	**12**	1.2	EPA 6010D	9-24-24	9-24-24	
Lead	**ND**	6.0	EPA 6010D	9-24-24	9-24-24	
Mercury	**ND**	0.30	EPA 7471B	9-24-24	9-24-24	
Nickel	**20**	3.0	EPA 6010D	9-24-24	9-24-24	
Selenium	**ND**	12	EPA 6010D	9-24-24	9-24-24	
Silver	**ND**	1.2	EPA 6010D	9-24-24	9-24-24	
Zinc	**32**	3.0	EPA 6010D	9-24-24	9-24-24	
Client ID:	**IDW-SOIL-2**					
Laboratory ID:	09-258-02					
Arsenic	**ND**	12	EPA 6010D	9-24-24	9-24-24	
Barium	**84**	3.0	EPA 6010D	9-24-24	9-24-24	
Cadmium	**ND**	0.59	EPA 6010D	9-24-24	9-24-24	
Chromium	**32**	0.59	EPA 6010D	9-24-24	9-24-24	
Copper	**11**	1.2	EPA 6010D	9-24-24	9-24-24	
Lead	**ND**	5.9	EPA 6010D	9-24-24	9-24-24	
Mercury	**ND**	0.30	EPA 7471B	9-24-24	9-24-24	
Nickel	**20**	3.0	EPA 6010D	9-24-24	9-24-24	
Selenium	**ND**	12	EPA 6010D	9-24-24	9-24-24	
Silver	**ND**	1.2	EPA 6010D	9-24-24	9-24-24	
Zinc	**23**	3.0	EPA 6010D	9-24-24	9-24-24	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-258
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924S1					
Vinyl Chloride	ND	0.0050	EPA 8260D	9-24-24	9-24-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-24-24	9-24-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-24-24	9-24-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-24-24	9-24-24	
Trichloroethene	ND	0.0010	EPA 8260D	9-24-24	9-24-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*69-124*				
Toluene-d8	*103*	*80-118*				
4-Bromofluorobenzene	*97*	*75-123*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0924S1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**0.0542**	**0.0509**	0.0500	0.0500	108	102	52-141	6	20	
1,1-Dichloroethene	**0.0575**	**0.0562**	0.0500	0.0500	115	112	74-133	2	16	
(trans) 1,2-Dichloroethene	**0.0586**	**0.0575**	0.0500	0.0500	117	115	74-131	2	15	
(cis) 1,2-Dichloroethene	**0.0581**	**0.0580**	0.0500	0.0500	116	116	71-136	0	15	
Trichloroethene	**0.0568**	**0.0603**	0.0500	0.0500	114	121	80-130	6	15	
Tetrachloroethene	**0.0595**	**0.0624**	0.0500	0.0500	119	125	80-130	5	15	
Surrogate:										
Dibromofluoromethane					*102*	*98*	*69-124*			
Toluene-d8					*100*	*98*	*80-118*			
4-Bromofluorobenzene					*106*	*105*	*75-123*			

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Date of Report: September 24, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-258
Project: 4082-039-05 T200

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	9-24-24	9-24-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-24-24	9-24-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-24-24	9-24-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-24-24	9-24-24	
Trichloroethene	ND	0.20	EPA 8260D	9-24-24	9-24-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0924W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.2**	**9.52**	10.0	10.0	102	95	67-130	7	15	
1,1-Dichloroethene	**10.8**	**10.4**	10.0	10.0	108	104	74-125	4	15	
(trans) 1,2-Dichloroethene	**11.0**	**10.6**	10.0	10.0	110	106	77-125	4	15	
(cis) 1,2-Dichloroethene	**11.2**	**10.7**	10.0	10.0	112	107	78-130	5	15	
Trichloroethene	**11.4**	**11.2**	10.0	10.0	114	112	80-126	2	15	
Tetrachloroethene	**11.7**	**11.4**	10.0	10.0	117	114	80-125	3	15	
Surrogate:										
Dibromofluoromethane					*99*	*96*	*68-133*			
Toluene-d8					*100*	*100*	*79-123*			
4-Bromofluorobenzene					*103*	*100*	*78-117*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-258
Project: 4082-039-05 T200

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924SM1					
Arsenic	**ND**	10	EPA 6010D	9-24-24	9-24-24	
Barium	**ND**	2.5	EPA 6010D	9-24-24	9-24-24	
Cadmium	**ND**	0.50	EPA 6010D	9-24-24	9-24-24	
Chromium	**ND**	0.50	EPA 6010D	9-24-24	9-24-24	
Copper	**ND**	1.0	EPA 6010D	9-24-24	9-24-24	
Lead	**ND**	5.0	EPA 6010D	9-24-24	9-24-24	
Nickel	**ND**	2.5	EPA 6010D	9-24-24	9-24-24	
Selenium	**ND**	10	EPA 6010D	9-24-24	9-24-24	
Silver	**ND**	1.0	EPA 6010D	9-24-24	9-24-24	
Zinc	**ND**	2.5	EPA 6010D	9-24-24	9-24-24	
Laboratory ID:	MB0924SM1					
Mercury	**ND**	0.25	EPA 7471B	9-24-24	9-24-24	

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Date of Report: September 24, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-258
Project: 4082-039-05 T200

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-285-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**44.4**	**42.5**	NA	NA		NA		NA	4	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**14.5**	**16.9**	NA	NA		NA		NA	15	20	
Copper	**16.1**	**15.9**	NA	NA		NA		NA	1	20	
Lead	**12.0**	**11.2**	NA	NA		NA		NA	7	20	
Nickel	**14.2**	**15.1**	NA	NA		NA		NA	6	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**38.1**	**36.2**	NA	NA		NA		NA	5	20	
Laboratory ID:	09-262-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-285-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**90.0**	**94.9**	100	100	ND	**90**	**95**	75-125	5	20	
Barium	**151**	**155**	100	100	44.4	**106**	**110**	75-125	3	20	
Cadmium	**46.2**	**47.6**	50.0	50.0	ND	**92**	**95**	75-125	3	20	
Chromium	**111**	**117**	100	100	14.5	**97**	**102**	75-125	5	20	
Copper	**69.0**	**68.7**	50.0	50.0	16.1	**106**	**105**	75-125	0	20	
Lead	**255**	**261**	250	250	12.0	**97**	**100**	75-125	2	20	
Nickel	**112**	**116**	100	100	14.2	**98**	**102**	75-125	3	20	
Selenium	**85.6**	**90.6**	100	100	ND	**86**	**91**	75-125	6	20	
Silver	**22.3**	**22.9**	25.0	25.0	ND	**89**	**92**	75-125	3	20	
Zinc	**135**	**139**	100	100	38.1	**97**	**101**	75-125	3	20	
Laboratory ID:	09-262-01										
Mercury	**0.523**	**0.510**	0.500	0.500	0.0165	**101**	**99**	80-120	3	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 24, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-258
Project: 4082-039-05 T200

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
IDW-SOIL-1	09-258-01	**16**	9-23-24
IDW-SOIL-2	09-258-02	**16**	9-23-24

This report pertains to the samples analyzed in accordance with the chain of custody,
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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 40852-039-05 T200
Project Name: FL358
Project Manager: BRITTANY WAITE
Sampled by: JAK

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
~~☐ Standard (7 Days)~~ DB 9/23
☐ _____ (other)

Laboratory Number: 09-258

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	1DW-SOIL-~~MW15-MW16~~ 1 DB 2 DB 9/26/24	9/20/24	1158	S	4
2	1DW-SOIL-~~MW17-MW18~~		1204	S	4
3	1DW-WATER-MW8-MW11		1208	W	3
4	1DW-WATER-~~MW15-MW16~~ 1 DB 2 DB		1212	W	3
5	1DW-WATER-~~MW17-MW18~~		1216	W	3
6	1DW-WATER-MW5-MW11	9/20/24	1225	W	3

	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals + Cu, Ni, Zn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	* PCE + BREAKDOWN				% Moisture
1														X				X				X
2														X				X				2
3																		X	HOLD DB			
4																		X				
5																		X				
6																		X	HOLD DB			

	Signature	Company	Date	Time
Relinquished		GEI	9/20/24	1325
Received		OSE	9/20/24	1325
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* PCE, TCE, CIS/TRANS-1,2-DCE, 1,1-DCE, VC.
(X) Added 9/23/24. DB (1 day TAT)

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 30, 2024

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 4082-039-06 Task 200
Laboratory Reference No. 2412-292

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 18, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 30, 2024
Samples Submitted: December 18, 2024
Laboratory Reference: 2412-292
Project: 4082-039-06 Task 200

Case Narrative

Samples were collected on December 17 and 18, 2024 and received by the laboratory on December 18, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 30, 2024
Samples Submitted: December 18, 2024
Laboratory Reference: 2412-292
Project: 4082-039-06 Task 200

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW26_24-25	12-292-04	Soil	12-17-24	12-18-24	
FL358-MW26_37-37.5	12-292-06	Soil	12-17-24	12-18-24	
FL358-MW26_39-40	12-292-07	Soil	12-17-24	12-18-24	
FL358-MW27_24-25	12-292-11	Soil	12-17-24	12-18-24	
FL358-MW27_27-27.5	12-292-12	Soil	12-17-24	12-18-24	
FL358-MW27_32-32.5	12-292-13	Soil	12-17-24	12-18-24	
FL358-MW25_24-25	12-292-17	Soil	12-18-24	12-18-24	
FL358-MW25_34-35	12-292-19	Soil	12-18-24	12-18-24	
FL358-MW25_37-37.5	12-292-20	Soil	12-18-24	12-18-24	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 30, 2024
Samples Submitted: December 18, 2024
Laboratory Reference: 2412-292
Project: 4082-039-06 Task 200

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW26_24-25**					
Laboratory ID:	12-292-04					
Vinyl Chloride	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
1,1-Dichloroethene	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
(trans) 1,2-Dichloroethene	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
(cis) 1,2-Dichloroethene	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
Trichloroethene	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
Tetrachloroethene	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*69-124*				
Toluene-d8	*100*	*80-118*				
4-Bromofluorobenzene	*104*	*75-123*				
Client ID:	**FL358-MW26_37-37.5**					
Laboratory ID:	12-292-06					
Vinyl Chloride	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
1,1-Dichloroethene	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
(trans) 1,2-Dichloroethene	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
(cis) 1,2-Dichloroethene	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
Trichloroethene	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
Tetrachloroethene	ND	0.00056	EPA 8260D	12-21-24	12-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*69-124*				
Toluene-d8	*100*	*80-118*				
4-Bromofluorobenzene	*106*	*75-123*				
Client ID:	**FL358-MW26_39-40**					
Laboratory ID:	12-292-07					
Vinyl Chloride	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
1,1-Dichloroethene	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
(trans) 1,2-Dichloroethene	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
(cis) 1,2-Dichloroethene	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
Trichloroethene	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
Tetrachloroethene	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*69-124*				
Toluene-d8	*99*	*80-118*				
4-Bromofluorobenzene	*104*	*75-123*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 30, 2024
Samples Submitted: December 18, 2024
Laboratory Reference: 2412-292
Project: 4082-039-06 Task 200

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27_24-25**					
Laboratory ID:	12-292-11					
Vinyl Chloride	ND	0.00053	EPA 8260D	12-21-24	12-21-24	
1,1-Dichloroethene	ND	0.00053	EPA 8260D	12-21-24	12-21-24	
(trans) 1,2-Dichloroethene	ND	0.00053	EPA 8260D	12-21-24	12-21-24	
(cis) 1,2-Dichloroethene	ND	0.00053	EPA 8260D	12-21-24	12-21-24	
Trichloroethene	ND	0.00053	EPA 8260D	12-21-24	12-21-24	
Tetrachloroethene	ND	0.00053	EPA 8260D	12-21-24	12-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*69-124*				
Toluene-d8	*103*	*80-118*				
4-Bromofluorobenzene	*106*	*75-123*				
Client ID:	**FL358-MW27_27-27.5**					
Laboratory ID:	12-292-12					
Vinyl Chloride	ND	0.00059	EPA 8260D	12-21-24	12-21-24	
1,1-Dichloroethene	ND	0.00059	EPA 8260D	12-21-24	12-21-24	
(trans) 1,2-Dichloroethene	ND	0.00059	EPA 8260D	12-21-24	12-21-24	
(cis) 1,2-Dichloroethene	ND	0.00059	EPA 8260D	12-21-24	12-21-24	
Trichloroethene	ND	0.00059	EPA 8260D	12-21-24	12-21-24	
Tetrachloroethene	ND	0.00059	EPA 8260D	12-21-24	12-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*69-124*				
Toluene-d8	*106*	*80-118*				
4-Bromofluorobenzene	*110*	*75-123*				
Client ID:	**FL358-MW27_32-32.5**					
Laboratory ID:	12-292-13					
Vinyl Chloride	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
1,1-Dichloroethene	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
(trans) 1,2-Dichloroethene	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
(cis) 1,2-Dichloroethene	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
Trichloroethene	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
Tetrachloroethene	ND	0.00052	EPA 8260D	12-21-24	12-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*69-124*				
Toluene-d8	*101*	*80-118*				
4-Bromofluorobenzene	*105*	*75-123*				

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Date of Report: December 30, 2024
Samples Submitted: December 18, 2024
Laboratory Reference: 2412-292
Project: 4082-039-06 Task 200

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW25_24-25**					
Laboratory ID:	12-292-17					
Vinyl Chloride	ND	0.00044	EPA 8260D	12-21-24	12-21-24	
1,1-Dichloroethene	ND	0.00044	EPA 8260D	12-21-24	12-21-24	
(trans) 1,2-Dichloroethene	ND	0.00044	EPA 8260D	12-21-24	12-21-24	
(cis) 1,2-Dichloroethene	ND	0.00044	EPA 8260D	12-21-24	12-21-24	
Trichloroethene	ND	0.00044	EPA 8260D	12-21-24	12-21-24	
Tetrachloroethene	ND	0.00044	EPA 8260D	12-21-24	12-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*69-124*				
Toluene-d8	*100*	*80-118*				
4-Bromofluorobenzene	*103*	*75-123*				
Client ID:	**FL358-MW25_34-35**					
Laboratory ID:	12-292-19					
Vinyl Chloride	ND	0.00054	EPA 8260D	12-21-24	12-21-24	
1,1-Dichloroethene	ND	0.00054	EPA 8260D	12-21-24	12-21-24	
(trans) 1,2-Dichloroethene	ND	0.00054	EPA 8260D	12-21-24	12-21-24	
(cis) 1,2-Dichloroethene	ND	0.00054	EPA 8260D	12-21-24	12-21-24	
Trichloroethene	ND	0.00054	EPA 8260D	12-21-24	12-21-24	
Tetrachloroethene	ND	0.00054	EPA 8260D	12-21-24	12-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*69-124*				
Toluene-d8	*101*	*80-118*				
4-Bromofluorobenzene	*106*	*75-123*				
Client ID:	**FL358-MW25_37-37.5**					
Laboratory ID:	12-292-20					
Vinyl Chloride	ND	0.00060	EPA 8260D	12-21-24	12-21-24	
1,1-Dichloroethene	ND	0.00060	EPA 8260D	12-21-24	12-21-24	
(trans) 1,2-Dichloroethene	ND	0.00060	EPA 8260D	12-21-24	12-21-24	
(cis) 1,2-Dichloroethene	ND	0.00060	EPA 8260D	12-21-24	12-21-24	
Trichloroethene	ND	0.00060	EPA 8260D	12-21-24	12-21-24	
Tetrachloroethene	ND	0.00060	EPA 8260D	12-21-24	12-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*69-124*				
Toluene-d8	*109*	*80-118*				
4-Bromofluorobenzene	*111*	*75-123*				

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Date of Report: December 30, 2024
Samples Submitted: December 18, 2024
Laboratory Reference: 2412-292
Project: 4082-039-06 Task 200

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1221S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	12-21-24	12-21-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	12-21-24	12-21-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-21-24	12-21-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-21-24	12-21-24	
Trichloroethene	ND	0.0010	EPA 8260D	12-21-24	12-21-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	12-21-24	12-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*69-124*				
Toluene-d8	*103*	*80-118*				
4-Bromofluorobenzene	*105*	*75-123*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1221S1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**0.0411**	**0.0393**	0.0500	0.0500	82	79	52-141	4	20	
1,1-Dichloroethene	**0.0470**	**0.0445**	0.0500	0.0500	94	89	74-133	5	16	
(trans) 1,2-Dichloroethene	**0.0454**	**0.0434**	0.0500	0.0500	91	87	74-131	5	15	
(cis) 1,2-Dichloroethene	**0.0460**	**0.0441**	0.0500	0.0500	92	88	71-136	4	15	
Trichloroethene	**0.0498**	**0.0489**	0.0500	0.0500	100	98	80-130	2	15	
Tetrachloroethene	**0.0525**	**0.0523**	0.0500	0.0500	105	105	80-130	0	15	
Surrogate:										
Dibromofluoromethane					*103*	*99*	*69-124*			
Toluene-d8					*103*	*102*	*80-118*			
4-Bromofluorobenzene					*105*	*103*	*75-123*			

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Date of Report: December 30, 2024
Samples Submitted: December 18, 2024
Laboratory Reference: 2412-292
Project: 4082-039-06 Task 200

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
FL358-MW26_24-25	12-292-04	**11**	12-26-24
FL358-MW26_37-37.5	12-292-06	**8**	12-26-24
FL358-MW26_39-40	12-292-07	**8**	12-26-24
FL358-MW27_24-25	12-292-11	**7**	12-26-24
FL358-MW27_27-27.5	12-292-12	**11**	12-26-24
FL358-MW27_32-32.5	12-292-13	**10**	12-26-24
FL358-MW25_24-25	12-292-17	**12**	12-26-24
FL358-MW25_34-35	12-292-19	**12**	12-26-24
FL358-MW25_37-37.5	12-292-20	**7**	12-26-24

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 6, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-06 T200
Laboratory Reference No. 2412-341

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on December 20, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-341
Project: 4082-039-06 T200

Case Narrative

Samples were collected on December 19, 2024 and received by the laboratory on December 20, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

The client requested the analysis of samples FL358-MW24-23-24, FL358-MW24-29.5-30, FL358-MW24-34-35, FL358-MW23-24-25, FL358-MW23-29-30 and FL358-MW23-33-34 after their holding times had expired.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-341
Project: 4082-039-06 T200

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW24-23-24	12-341-04	Soil	12-19-24	12-20-24	
FL358-MW24-29.5-30	12-341-05	Soil	12-19-24	12-20-24	
FL358-MW24-34-35	12-341-06	Soil	12-19-24	12-20-24	
FL358-MW23-24-25	12-341-10	Soil	12-19-24	12-20-24	
FL358-MW23-29-30	12-341-11	Soil	12-19-24	12-20-24	
FL358-MW23-33-34	12-341-12	Soil	12-19-24	12-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-341
Project: 4082-039-06 T200

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW24-23-24**					
Laboratory ID:	12-341-04					
Vinyl Chloride	ND	0.00081	EPA 8260D	1-3-25	1-3-25	
1,1-Dichloroethene	ND	0.00081	EPA 8260D	1-3-25	1-3-25	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	1-3-25	1-3-25	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	1-3-25	1-3-25	
Trichloroethene	ND	0.00081	EPA 8260D	1-3-25	1-3-25	
Tetrachloroethene	ND	0.00081	EPA 8260D	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*69-124*				
Toluene-d8	*101*	*80-118*				
4-Bromofluorobenzene	*100*	*75-123*				
Client ID:	**FL358-MW24-29.5-30**					
Laboratory ID:	12-341-05					
Vinyl Chloride	ND	0.00087	EPA 8260D	1-3-25	1-3-25	
1,1-Dichloroethene	ND	0.00087	EPA 8260D	1-3-25	1-3-25	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260D	1-3-25	1-3-25	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260D	1-3-25	1-3-25	
Trichloroethene	ND	0.00087	EPA 8260D	1-3-25	1-3-25	
Tetrachloroethene	ND	0.00087	EPA 8260D	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*69-124*				
Toluene-d8	*101*	*80-118*				
4-Bromofluorobenzene	*94*	*75-123*				
Client ID:	**FL358-MW24-34-35**					
Laboratory ID:	12-341-06					
Vinyl Chloride	ND	0.0016	EPA 8260D	1-3-25	1-3-25	
1,1-Dichloroethene	ND	0.0016	EPA 8260D	1-3-25	1-3-25	
(trans) 1,2-Dichloroethene	ND	0.0016	EPA 8260D	1-3-25	1-3-25	
(cis) 1,2-Dichloroethene	ND	0.0016	EPA 8260D	1-3-25	1-3-25	
Trichloroethene	ND	0.0016	EPA 8260D	1-3-25	1-3-25	
Tetrachloroethene	ND	0.0016	EPA 8260D	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*69-124*				
Toluene-d8	*93*	*80-118*				
4-Bromofluorobenzene	*89*	*75-123*				

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-341
Project: 4082-039-06 T200

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW23-24-25**					
Laboratory ID:	12-341-10					
Vinyl Chloride	ND	0.00095	EPA 8260D	1-3-25	1-3-25	
1,1-Dichloroethene	ND	0.00095	EPA 8260D	1-3-25	1-3-25	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	1-3-25	1-3-25	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	1-3-25	1-3-25	
Trichloroethene	ND	0.00095	EPA 8260D	1-3-25	1-3-25	
Tetrachloroethene	ND	0.00095	EPA 8260D	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*69-124*				
Toluene-d8	*98*	*80-118*				
4-Bromofluorobenzene	*112*	*75-123*				
Client ID:	**FL358-MW23-29-30**					
Laboratory ID:	12-341-11					
Vinyl Chloride	ND	0.00096	EPA 8260D	1-3-25	1-3-25	
1,1-Dichloroethene	ND	0.00096	EPA 8260D	1-3-25	1-3-25	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260D	1-3-25	1-3-25	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260D	1-3-25	1-3-25	
Trichloroethene	ND	0.00096	EPA 8260D	1-3-25	1-3-25	
Tetrachloroethene	ND	0.00096	EPA 8260D	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*69-124*				
Toluene-d8	*99*	*80-118*				
4-Bromofluorobenzene	*108*	*75-123*				
Client ID:	**FL358-MW23-33-34**					
Laboratory ID:	12-341-12					
Vinyl Chloride	ND	0.00093	EPA 8260D	1-3-25	1-3-25	
1,1-Dichloroethene	ND	0.00093	EPA 8260D	1-3-25	1-3-25	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260D	1-3-25	1-3-25	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260D	1-3-25	1-3-25	
Trichloroethene	ND	0.00093	EPA 8260D	1-3-25	1-3-25	
Tetrachloroethene	ND	0.00093	EPA 8260D	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*69-124*				
Toluene-d8	*93*	*80-118*				
4-Bromofluorobenzene	*96*	*75-123*				

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-341
Project: 4082-039-06 T200

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0103S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	1-3-25	1-3-25	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	1-3-25	1-3-25	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-3-25	1-3-25	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-3-25	1-3-25	
Trichloroethene	ND	0.0010	EPA 8260D	1-3-25	1-3-25	
Tetrachloroethene	ND	0.0010	EPA 8260D	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*69-124*				
Toluene-d8	*88*	*80-118*				
4-Bromofluorobenzene	*96*	*75-123*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0103S1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**0.0484**	**0.0478**	0.0500	0.0500	97	96	52-141	1	20	
1,1-Dichloroethene	**0.0559**	**0.0520**	0.0500	0.0500	112	104	74-133	7	16	
(trans) 1,2-Dichloroethene	**0.0499**	**0.0484**	0.0500	0.0500	100	97	74-131	3	15	
(cis) 1,2-Dichloroethene	**0.0497**	**0.0503**	0.0500	0.0500	99	101	71-136	1	15	
Trichloroethene	**0.0514**	**0.0562**	0.0500	0.0500	103	112	80-130	9	15	
Tetrachloroethene	**0.0538**	**0.0585**	0.0500	0.0500	108	117	80-130	8	15	
Surrogate:										
Dibromofluoromethane					*100*	*103*	*69-124*			
Toluene-d8					*100*	*101*	*80-118*			
4-Bromofluorobenzene					*100*	*105*	*75-123*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-341
Project: 4082-039-06 T200

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
FL358-MW24-23-24	12-341-04	**10**	1-4-25
FL358-MW24-29.5-30	12-341-05	**10**	1-4-25
FL358-MW24-34-35	12-341-06	**10**	1-4-25
FL358-MW23-24-25	12-341-10	**9**	1-4-25
FL358-MW23-29-30	12-341-11	**14**	1-4-25
FL358-MW23-33-34	12-341-12	**11**	1-4-25

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 2

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 4052-039-06 T 200
Project Name: FL358
Project Manager: BRITTANY WALTE
Sampled by: JAK + DK

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 12-341

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FL358-MW24_10-11	12/19/24	0800	S	4
2	FL358-MW24_14-15		0805		
3	FL358-MW24_19-20		0810		
4	FL358-MW24-23-24		0820		
5	FL358-MW24-29.5-30		0825		
6	FL358-MW24_34-35		0915		
7	FL358-MW~~24~~23_10-11		1350		
8	FL358-MW~~24~~23_14-15		1355		
9	FL358-MW~~24~~23_19-20		1400		
10	FL358-MW23_24-25		1415		

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260 Short list *	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Hold				% Moisture
1																		X				
2																						
3																						
4						X																X
5						X																X
6						X																X
7																						
8																						
9																						
10						X																X

	Signature	Company	Date	Time
Relinquished		GEI	12/20/24	1450
Received		OSE	12/20/24	1450
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

X Added 1/3/25. (~~5 TAT~~ 4 day TAT) DB

* – PCE, TCE, cis/trans-DCE, 1,1-DCE, VC

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 4082-039-06
Project Name: FL358 AS PACE
Project Manager: Brittany, Tricia
Sampled by: DK, JK

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-341

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	FL358-MW23-29-30	12/19/24	1420	S	4
12	FL358-MW23-33-34		1450	S	4
	~~FL358-MW8-24-12/19~~		~~1120~~	~~W~~	~~10~~
	~~FL358-MW19-24/12/19~~	↓	~~1405~~	~~W~~	~~10~~

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260 X Short List	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	HOLD	Preserve VOCs		% Moisture
11						X												X			X
12						X												X			X

	Signature	Company	Date	Time
Relinquished		GEI	12/20	1451
Received		CSE	12/20/24	1451
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 3, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-06
Laboratory Reference No. 2502-317

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on February 25, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 3, 2025
Samples Submitted: February 25, 2025
Laboratory Reference: 2502-317
Project: 4082-039-06

Case Narrative

Samples were collected on February 24, 2025 and received by the laboratory on February 25, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 3, 2025
Samples Submitted: February 25, 2025
Laboratory Reference: 2502-317
Project: 4082-039-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW29_10-11	02-317-01	Soil	2-24-25	2-25-25	
FL358-MW29_15-16	02-317-02	Soil	2-24-25	2-25-25	
FL358-MW29_20-21	02-317-03	Soil	2-24-25	2-25-25	
FL358-MW29_25-26	02-317-04	Soil	2-24-25	2-25-25	
FL358-MW29_29-30	02-317-05	Soil	2-24-25	2-25-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 3, 2025
Samples Submitted: February 25, 2025
Laboratory Reference: 2502-317
Project: 4082-039-06

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW29_10-11**					
Laboratory ID:	02-317-01					
Vinyl Chloride	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
Trichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
Tetrachloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*69-124*				
Toluene-d8	*102*	*80-118*				
4-Bromofluorobenzene	*91*	*75-123*				
Client ID:	**FL358-MW29_15-16**					
Laboratory ID:	02-317-02					
Vinyl Chloride	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
Trichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
Tetrachloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*69-124*				
Toluene-d8	*102*	*80-118*				
4-Bromofluorobenzene	*95*	*75-123*				
Client ID:	**FL358-MW29_20-21**					
Laboratory ID:	02-317-03					
Vinyl Chloride	ND	0.00093	EPA 8260D	2-25-25	2-25-25	
1,1-Dichloroethene	ND	0.00093	EPA 8260D	2-25-25	2-25-25	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260D	2-25-25	2-25-25	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260D	2-25-25	2-25-25	
Trichloroethene	ND	0.00093	EPA 8260D	2-25-25	2-25-25	
Tetrachloroethene	ND	0.00093	EPA 8260D	2-25-25	2-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*69-124*				
Toluene-d8	*100*	*80-118*				
4-Bromofluorobenzene	*97*	*75-123*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 3, 2025
Samples Submitted: February 25, 2025
Laboratory Reference: 2502-317
Project: 4082-039-06

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW29_25-26**					
Laboratory ID:	02-317-04					
Vinyl Chloride	ND	0.00071	EPA 8260D	2-25-25	2-25-25	
1,1-Dichloroethene	ND	0.00071	EPA 8260D	2-25-25	2-25-25	
(trans) 1,2-Dichloroethene	ND	0.00071	EPA 8260D	2-25-25	2-25-25	
(cis) 1,2-Dichloroethene	ND	0.00071	EPA 8260D	2-25-25	2-25-25	
Trichloroethene	ND	0.00071	EPA 8260D	2-25-25	2-25-25	
Tetrachloroethene	ND	0.00071	EPA 8260D	2-25-25	2-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*69-124*				
Toluene-d8	*103*	*80-118*				
4-Bromofluorobenzene	*98*	*75-123*				
Client ID:	**FL358-MW29_29-30**					
Laboratory ID:	02-317-05					
Vinyl Chloride	ND	0.00087	EPA 8260D	2-25-25	2-25-25	
1,1-Dichloroethene	ND	0.00087	EPA 8260D	2-25-25	2-25-25	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260D	2-25-25	2-25-25	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260D	2-25-25	2-25-25	
Trichloroethene	ND	0.00087	EPA 8260D	2-25-25	2-25-25	
Tetrachloroethene	ND	0.00087	EPA 8260D	2-25-25	2-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*69-124*				
Toluene-d8	*102*	*80-118*				
4-Bromofluorobenzene	*97*	*75-123*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 3, 2025
Samples Submitted: February 25, 2025
Laboratory Reference: 2502-317
Project: 4082-039-06

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0225S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
Trichloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
Tetrachloroethene	ND	0.0010	EPA 8260D	2-25-25	2-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*69-124*				
Toluene-d8	*98*	*80-118*				
4-Bromofluorobenzene	*101*	*75-123*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 3, 2025
Samples Submitted: February 25, 2025
Laboratory Reference: 2502-317
Project: 4082-039-06

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0225S1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**0.0517**	**0.0487**	0.0500	0.0500	103	97	52-141	6	20	
1,1-Dichloroethene	**0.0514**	**0.0492**	0.0500	0.0500	103	98	74-133	4	16	
(trans) 1,2-Dichloroethene	**0.0503**	**0.0485**	0.0500	0.0500	101	97	74-131	4	15	
(cis) 1,2-Dichloroethene	**0.0504**	**0.0495**	0.0500	0.0500	101	99	71-136	2	15	
Trichloroethene	**0.0528**	**0.0525**	0.0500	0.0500	106	105	80-130	1	15	
Tetrachloroethene	**0.0542**	**0.0537**	0.0500	0.0500	108	107	80-130	1	15	
Surrogate:										
Dibromofluoromethane					*98*	*95*	*69-124*			
Toluene-d8					*102*	*101*	*80-118*			
4-Bromofluorobenzene					*108*	*106*	*75-123*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 3, 2025
Samples Submitted: February 25, 2025
Laboratory Reference: 2502-317
Project: 4082-039-06

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
FL358-MW29_10-11	02-317-01	**8**	2-27-28
FL358-MW29_15-16	02-317-02	**13**	2-27-28
FL358-MW29_20-21	02-317-03	**16**	2-27-28
FL358-MW29_25-26	02-317-04	**10**	2-27-28
FL358-MW29_29-30	02-317-05	**18**	2-27-28

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 02-317

Company:	Geo Engineers
Project Number:	4082-039-06
Project Name:	FL358 - Well Installation
Project Manager:	Brittany Waite
Sampled by:	Ramsey McNabb

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☑ Standard (7 Days)
- ☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	VOCs *				% Moisture
1	FL358-~~MW-29-10.0~~ MW29-10-11	2/24/25	1015	S	3																		X				X
2	FL358-~~MW-29-15.0~~ MW29-15-16	↓	1036	↓	↓																		X				X
3	FL358-~~MW-29-20.0~~ MW29-20-21		1105																				X				X
4	FL358-~~MW-29-25.0~~ MW29-25-26		1139																				X				X
5	FL358-~~MW-29-30.0~~ MW29-29-30		1232																				X				X

	Signature	Company	Date	Time
Relinquished	Ramsey	Geo Engineers	2/25/24	0918
Received	Van	Spdy	2/25/24	0918
Relinquished	Van	Spdy	2/25/24	1105
Received	Christian Prell	OSE	2/25/25	1105
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2 DCE, vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 6, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-06
Laboratory Reference No. 2502-340

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on February 26, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 6, 2025
Samples Submitted: February 26, 2025
Laboratory Reference: 2502-340
Project: 4082-039-06

Case Narrative

Samples were collected on February 25 and 26, 2025 and received by the laboratory on February 26, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 6, 2025
Samples Submitted: February 26, 2025
Laboratory Reference: 2502-340
Project: 4082-039-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW28_25-26	02-340-04	Soil	2-25-25	2-26-25	
FL358-MW28_30-31	02-340-05	Soil	2-25-25	2-26-25	
FL358-MW30_19-20	02-340-09	Soil	2-25-25	2-26-25	
FL358-MW30_DUP	02-340-10	Soil	2-25-25	2-26-25	
FL358-MW30_30-31	02-340-12	Soil	2-25-25	2-26-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 6, 2025
Samples Submitted: February 26, 2025
Laboratory Reference: 2502-340
Project: 4082-039-06

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW28_25-26**					
Laboratory ID:	02-340-04					
Vinyl Chloride	ND	0.00085	EPA 8260D	2-28-25	2-28-25	
1,1-Dichloroethene	ND	0.00085	EPA 8260D	2-28-25	2-28-25	
(trans) 1,2-Dichloroethene	ND	0.00085	EPA 8260D	2-28-25	2-28-25	
(cis) 1,2-Dichloroethene	ND	0.00085	EPA 8260D	2-28-25	2-28-25	
Trichloroethene	ND	0.00085	EPA 8260D	2-28-25	2-28-25	
Tetrachloroethene	ND	0.00085	EPA 8260D	2-28-25	2-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*69-124*				
Toluene-d8	*103*	*80-118*				
4-Bromofluorobenzene	*95*	*75-123*				
Client ID:	**FL358-MW28_30-31**					
Laboratory ID:	02-340-05					
Vinyl Chloride	ND	0.00092	EPA 8260D	2-28-25	2-28-25	
1,1-Dichloroethene	ND	0.00092	EPA 8260D	2-28-25	2-28-25	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260D	2-28-25	2-28-25	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260D	2-28-25	2-28-25	
Trichloroethene	ND	0.00092	EPA 8260D	2-28-25	2-28-25	
Tetrachloroethene	ND	0.00092	EPA 8260D	2-28-25	2-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*69-124*				
Toluene-d8	*102*	*80-118*				
4-Bromofluorobenzene	*95*	*75-123*				
Client ID:	**FL358-MW30_19-20**					
Laboratory ID:	02-340-09					
Vinyl Chloride	ND	0.00094	EPA 8260D	2-28-25	2-28-25	
1,1-Dichloroethene	ND	0.00094	EPA 8260D	2-28-25	2-28-25	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260D	2-28-25	2-28-25	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260D	2-28-25	2-28-25	
Trichloroethene	ND	0.00094	EPA 8260D	2-28-25	2-28-25	
Tetrachloroethene	ND	0.00094	EPA 8260D	2-28-25	2-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*69-124*				
Toluene-d8	*103*	*80-118*				
4-Bromofluorobenzene	*94*	*75-123*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 6, 2025
Samples Submitted: February 26, 2025
Laboratory Reference: 2502-340
Project: 4082-039-06

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW30_DUP**					
Laboratory ID:	02-340-10					
Vinyl Chloride	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
Trichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
Tetrachloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*69-124*				
Toluene-d8	*102*	*80-118*				
4-Bromofluorobenzene	*95*	*75-123*				
Client ID:	**FL358-MW30_30-31**					
Laboratory ID:	02-340-12					
Vinyl Chloride	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
Trichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
Tetrachloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*69-124*				
Toluene-d8	*101*	*80-118*				
4-Bromofluorobenzene	*89*	*75-123*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 6, 2025
Samples Submitted: February 26, 2025
Laboratory Reference: 2502-340
Project: 4082-039-06

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0228S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
Trichloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
Tetrachloroethene	ND	0.0010	EPA 8260D	2-28-25	2-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*69-124*				
Toluene-d8	*103*	*80-118*				
4-Bromofluorobenzene	*95*	*75-123*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0228S1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**0.0587**	**0.0599**	0.0500	0.0500	117	120	52-141	2	20	
1,1-Dichloroethene	**0.0550**	**0.0568**	0.0500	0.0500	110	114	74-133	3	16	
(trans) 1,2-Dichloroethene	**0.0534**	**0.0552**	0.0500	0.0500	107	110	74-131	3	15	
(cis) 1,2-Dichloroethene	**0.0528**	**0.0546**	0.0500	0.0500	106	109	71-136	3	15	
Trichloroethene	**0.0542**	**0.0561**	0.0500	0.0500	108	112	80-130	3	15	
Tetrachloroethene	**0.0555**	**0.0566**	0.0500	0.0500	111	113	80-130	2	15	
Surrogate:										
Dibromofluoromethane					*105*	*106*	*69-124*			
Toluene-d8					*103*	*104*	*80-118*			
4-Bromofluorobenzene					*97*	*97*	*75-123*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 6, 2025
Samples Submitted: February 26, 2025
Laboratory Reference: 2502-340
Project: 4082-039-06

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
FL358-MW28_25-26	02-340-04	**12**	3-3-25
FL358-MW28_30-31	02-340-05	**13**	3-3-25
FL358-MW30_19-20	02-340-09	**15**	2-28-25
FL358-MW30_DUP	02-340-10	**15**	2-28-25
FL358-MW30_30-31	02-340-12	**14**	2-28-25

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-06
Project Name: FL358 - Well Installation
Project Manager: Brittany Waite
Sampled by: Ramsey McNabb

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 02-340

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	VOCs *	HOLD		% Moisture
1	~~MW-28-10.0~~ FL358-MW28_10-11	2/25/25	0835	S	3																	2	X	X		0
2	~~MW-28-15.0~~ FL358-MW28-15-16		0851																			2	X	X		
3	~~MW-28-20.0~~ FL358-MW28-20-21		0932																			2	X	X		
4	~~MW-28-25.0~~ FL358-MW28-25-26		1012																				X			
5	~~MW-28-30.0~~ FL358-MW28-30-31		1103																				X			
6	~~MW-28-35.0~~ FL358-MW28-34-35		1146	MW/20NS	4																		X	X		
7	~~MW-30-10.0~~ FL358-MW30-10-11		1428		4																		X	X		
8	~~MW-30-15.0~~ FL358-MW30-15-16		1451		4																		X	X		
9	~~MW-30-20.0~~ FL358-MW30-19-20		1503		4																		X			
10	~~MW-30-20.0-DUP~~ FL358-MW30-DUP		1503		4																		X			

	Signature	Company	Date	Time
Relinquished	Ramsey	GeoEngineers	2/26/25	1530
Received		ORE	2/26/25	1530
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2 DCE, vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-06
Project Name: FL358-Well Installation
Project Manager: Brittany
Sampled by:

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 02-340

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	VOCs *		HOLD		% Moisture
11	~~MW-30-25.0~~ FL358-MW30-25-26	2/26/25	1521	S	4																		X		X		~~10~~
12	~~MW-30-30.0~~ FL358-MW30-30-31	2/25/25	1618		4																		X				
13	~~MW-30-35.0~~ FL358-MW30-34-35	2/25/25	1652		4																		X		X		
14	~~GEI-1-25.0~~ FL358-GEI1-25-26	2/26/25	1213		4																		X		X		
15	~~GEI-1-33.0~~ FL358-GEI1-32-33	2/26/25	1228	↓	4																		X		X		~~10~~
	~~GEI-2-MW~~																										
	~~GEI-2-RM~~																										
	~~GEI-1-022625~~	2/26/25		~~Decon GW~~	3 RM																						
	~~GEI-2-022625~~			~~Decon~~	3 RM																						

	Signature	Company	Date	Time
Relinquished		GeoEngineers	2/26/25	530
Received		OSE	2/26/25	1530
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2 DCE, vinyl Chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 6, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-06
Laboratory Reference No. 2502-362

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on February 27, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 6, 2025
Samples Submitted: February 27, 2025
Laboratory Reference: 2502-362
Project: 4082-039-06

Case Narrative

Samples were collected on February 27, 2025 and received by the laboratory on February 27, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 6, 2025
Samples Submitted: February 27, 2025
Laboratory Reference: 2502-362
Project: 4082-039-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-GEI1_RB	02-362-03	Water	2-27-25	2-27-25	
FL358-GEI2_RB	02-362-04	Water	2-27-25	2-27-25	
Trip Blank	02-362-05	Water	---	2-27-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 6, 2025
Samples Submitted: February 27, 2025
Laboratory Reference: 2502-362
Project: 4082-039-06

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-GEI1_RB**					
Laboratory ID:	02-362-03					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-3-25	3-3-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Trichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*116*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-GEI2_RB**					
Laboratory ID:	02-362-04					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-3-25	3-3-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Trichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**Trip Blank**					
Laboratory ID:	02-362-05					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-3-25	3-3-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Trichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*68-133*				
Toluene-d8	*104*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 6, 2025
Samples Submitted: February 27, 2025
Laboratory Reference: 2502-362
Project: 4082-039-06

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0303W1					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-3-25	3-3-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Trichloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-3-25	3-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-002-01										
	MS	MSD	MS	MSD		MS	MSD				
Vinyl Chloride	**11.8**	**12.0**	10.0	10.0	ND	118	120	62-121	2	15	
1,1-Dichloroethene	**11.3**	**11.4**	10.0	10.0	ND	113	114	76-119	1	15	
(trans) 1,2-Dichloroethene	**11.0**	**11.2**	10.0	10.0	ND	110	112	79-120	2	16	
(cis) 1,2-Dichloroethene	**11.1**	**11.3**	10.0	10.0	ND	111	113	81-128	2	16	
Trichloroethene	**10.3**	**10.3**	10.0	10.0	ND	103	103	80-130	0	12	
Tetrachloroethene	**10.0**	**10.0**	10.0	10.0	ND	100	100	84-126	0	19	
Surrogate:											
Dibromofluoromethane						*115*	*115*	*68-133*			
Toluene-d8						*108*	*106*	*79-123*			
4-Bromofluorobenzene						*100*	*100*	*78-117*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-06
Project Name: FL358-Well Installation
Project Manager: Brittany Waite
Sampled by: Ramsey McNabb

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 02-362

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	VOCs *	Hold			% Moisture
1	~~GEI-2-30.0~~ FL358-GEI2-30-33	2/27/25	1045	S	4																		X				
2	~~GEI-2-40.0~~ FL358-GEI2-39-40		1120	S	4																		X				
3	~~GEI-1-022725~~ FL358-GEI2-RB		0802	Decon	3																		X	~~X~~			
4	~~GEI-2-022725~~ FL358-GEI2-RB		~~1216~~ RM	Decon	3																		X	~~X~~			
5	Trip Blank	2/27/25	1414	water	6																		X				

	Signature	Company	Date	Time
Relinquished	Ramsey	GeoEngineers	2/27/25	1530
Received		GEI	2/27/25	1530
Relinquished		GEI	2/27/25	1636
Received	Brendan Pull	OSE	2/27/25	1636
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2 DCE, ~~*~~ vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 13, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-06
Laboratory Reference No. 2502-376

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on February 28, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 13, 2025
Samples Submitted: February 28, 2025
Laboratory Reference: 2502-376
Project: 4082-039-06

Case Narrative

Samples were collected on February 28, 2025 and received by the laboratory on February 28, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010D/7471B Analysis

The duplicate RPD for Nickel is outside control limits due to sample inhomogeneity.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Copper and Zinc are outside control limits due to matrix inhomogeneity .The Spike Blank recovery was 107% for Copper and 104% for Zinc.

Volatiles EPA 8260D Analysis

Method 5035A VOA vials were not provided. The sample was therefore extracted from a 4-ounce jar for analysis. Some loss of volatiles may have occurred.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 13, 2025
Samples Submitted: February 28, 2025
Laboratory Reference: 2502-376
Project: 4082-039-06

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
COMP-1-250228	02-376-01	Soil	2-28-25	2-28-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 13, 2025
Samples Submitted: February 28, 2025
Laboratory Reference: 2502-376
Project: 4082-039-06

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**COMP-1-250228**					
Laboratory ID:	02-376-01					
Arsenic	**ND**	12	EPA 6010D	3-7-25	3-7-25	
Barium	**46**	2.9	EPA 6010D	3-7-25	3-7-25	
Cadmium	**ND**	0.58	EPA 6010D	3-7-25	3-7-25	
Chromium	**17**	0.58	EPA 6010D	3-7-25	3-7-25	
Copper	**13**	1.2	EPA 6010D	3-7-25	3-7-25	
Lead	**ND**	5.8	EPA 6010D	3-7-25	3-7-25	
Mercury	**ND**	0.29	EPA 7471B	3-7-25	3-7-25	
Nickel	**20**	2.9	EPA 6010D	3-7-25	3-7-25	
Selenium	**ND**	12	EPA 6010D	3-7-25	3-7-25	
Silver	**ND**	1.2	EPA 6010D	3-7-25	3-7-25	
Zinc	**24**	2.9	EPA 6010D	3-7-25	3-7-25	

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Date of Report: March 13, 2025
Samples Submitted: February 28, 2025
Laboratory Reference: 2502-376
Project: 4082-039-06

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**COMP-1-250228**					
Laboratory ID:	02-376-01					
Vinyl Chloride	ND	0.0011	EPA 8260D	3-11-25	3-11-25	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	0.0011	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	0.0011	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*69-124*				
Toluene-d8	*111*	*80-118*				
4-Bromofluorobenzene	*108*	*75-123*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 13, 2025
Samples Submitted: February 28, 2025
Laboratory Reference: 2502-376
Project: 4082-039-06

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0307SM1					
Arsenic	**ND**	10	EPA 6010D	3-7-25	3-7-25	
Barium	**ND**	2.5	EPA 6010D	3-7-25	3-7-25	
Cadmium	**ND**	0.50	EPA 6010D	3-7-25	3-7-25	
Chromium	**ND**	0.50	EPA 6010D	3-7-25	3-7-25	
Copper	**ND**	1.0	EPA 6010D	3-7-25	3-7-25	
Lead	**ND**	5.0	EPA 6010D	3-7-25	3-7-25	
Nickel	**ND**	2.5	EPA 6010D	3-7-25	3-7-25	
Selenium	**ND**	10	EPA 6010D	3-7-25	3-7-25	
Silver	**ND**	1.0	EPA 6010D	3-7-25	3-7-25	
Zinc	**ND**	2.5	EPA 6010D	3-7-25	3-7-25	
Laboratory ID:	MB0307S1					
Mercury	**ND**	0.25	EPA 7471B	3-7-25	3-7-25	

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Date of Report: March 13, 2025
Samples Submitted: February 28, 2025
Laboratory Reference: 2502-376
Project: 4082-039-06

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-047-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**52.2**	**43.2**	NA	NA		NA		NA	19	20	
Cadmium	**0.638**	**0.524**	NA	NA		NA		NA	20	20	
Chromium	**30.9**	**26.0**	NA	NA		NA		NA	17	20	
Copper	**67.8**	**55.5**	NA	NA		NA		NA	20	20	
Lead	**67.4**	**58.3**	NA	NA		NA		NA	14	20	
Nickel	**24.8**	**20.1**	NA	NA		NA		NA	21	20	L
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**245**	**205**	NA	NA		NA		NA	18	20	
Laboratory ID:	03-047-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	03-047-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**97.5**	**96.1**	100	100	ND	**98**	**96**	75-125	1	20	
Barium	**149**	**147**	100	100	52.2	**97**	**95**	75-125	2	20	
Cadmium	**46.7**	**46.1**	50.0	50.0	0.638	**92**	**91**	75-125	1	20	
Chromium	**130**	**122**	100	100	30.9	**99**	**92**	75-125	6	20	
Copper	**106**	**100**	50.0	50.0	67.8	**76**	**65**	75-125	5	20	V
Lead	**308**	**300**	250	250	67.4	**96**	**93**	75-125	2	20	
Nickel	**120**	**117**	100	100	24.8	**95**	**93**	75-125	2	20	
Selenium	**90.4**	**90.1**	100	100	ND	**90**	**90**	75-125	0	20	
Silver	**26.3**	**26.4**	25.0	25.0	ND	**105**	**106**	75-125	0	20	
Zinc	**338**	**309**	100	100	245	**93**	**64**	75-125	9	20	V
Laboratory ID:	03-047-01										
Mercury	**0.546**	**0.551**	0.500	0.500	0.0445	**100**	**101**	80-120	1	20	

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Date of Report: March 13, 2025
Samples Submitted: February 28, 2025
Laboratory Reference: 2502-376
Project: 4082-039-06

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311S2					
Vinyl Chloride	ND	0.0010	EPA 8260D	3-11-25	3-11-25	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	0.0010	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*69-124*				
Toluene-d8	*108*	*80-118*				
4-Bromofluorobenzene	*106*	*75-123*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0311S1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**0.0540**	**0.0480**	0.0500	0.0500	108	96	52-141	12	20	
1,1-Dichloroethene	**0.0563**	**0.0507**	0.0500	0.0500	113	101	74-133	10	16	
(trans) 1,2-Dichloroethene	**0.0571**	**0.0520**	0.0500	0.0500	114	104	74-131	9	15	
(cis) 1,2-Dichloroethene	**0.0571**	**0.0531**	0.0500	0.0500	114	106	71-136	7	15	
Trichloroethene	**0.0556**	**0.0528**	0.0500	0.0500	111	106	80-130	5	15	
Tetrachloroethene	**0.0581**	**0.0518**	0.0500	0.0500	116	104	80-130	11	15	
Surrogate:										
Dibromofluoromethane					*103*	*103*	*69-124*			
Toluene-d8					*99*	*105*	*80-118*			
4-Bromofluorobenzene					*100*	*101*	*75-123*			

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Date of Report: March 13, 2025
Samples Submitted: February 28, 2025
Laboratory Reference: 2502-376
Project: 4082-039-06

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
COMP-1-250228	02-376-01	**13**	3-6-25

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-06
Project Name: FL358 - Well Installation
Project Manager: Brittany Waite
Sampled by: Ramsey McNabb

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☑ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 02-376

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	Comp-1-250228	2/28/25	1211	S	1

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260 *5 short list	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals †copper, nickle, zinc	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
1						(X)								X								X

	Signature	Company	Date	Time
Relinquished		GeoEngineers	2/28/25	1320
Received		OSE	2/28/25	1320
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

(X) Added 3/7/25. DB

* PCE, TCE, cis/trans-DCE, 1,1-DCE, VC

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 21, 2023

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 4082-039-03 T22.03
Laboratory Reference No. 2306-079

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on June 7, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 21, 2023
Samples Submitted: June 7, 2023
Laboratory Reference: 2306-079
Project: 4082-039-03 T22.03

Case Narrative

Samples were collected on June 6 and 7, 2023 and received by the laboratory on June 7, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

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Date of Report: June 21, 2023
Samples Submitted: June 7, 2023
Laboratory Reference: 2306-079
Project: 4082-039-03 T22.03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW5A-230607	06-079-01	Water	6-7-23	6-7-23	
FL358-MW5B-230607	06-079-02	Water	6-7-23	6-7-23	
FL358-MW6-230607	06-079-03	Water	6-7-23	6-7-23	
FL358-MW7-230606	06-079-04	Water	6-6-23	6-7-23	
FL358-MW8-230607	06-079-05	Water	6-7-23	6-7-23	
FL358-MW9-230607	06-079-06	Water	6-7-23	6-7-23	
FL358-MW10-230607	06-079-07	Water	6-7-23	6-7-23	
FL358-MW11-230607	06-079-08	Water	6-7-23	6-7-23	
FL358-MW12-230606	06-079-09	Water	6-6-23	6-7-23	
FL358-MW13-230606	06-079-10	Water	6-6-23	6-7-23	
FL358-MW14-230606	06-079-11	Water	6-6-23	6-7-23	
FL358-Dup-230607	06-079-12	Water	6-7-23	6-7-23	
FL358-RIN-230606	06-079-13	Water	6-6-23	6-7-23	
FL358-RIN-230607	06-079-14	Water	6-7-23	6-7-23	
FL358-TB-230606	06-079-15	Water	---	6-7-23	
FL358-TB-230607	06-079-16	Water	---	6-7-23	

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Date of Report: June 21, 2023
Samples Submitted: June 7, 2023
Laboratory Reference: 2306-079
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-230607**					
Laboratory ID:	06-079-01					
Vinyl Chloride	20	2.0	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	210	2.0	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	140	2.0	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	170	2.0	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*77*	*75-127*				
Toluene-d8	*82*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				
Client ID:	**FL358-MW5B-230607**					
Laboratory ID:	06-079-02					
Vinyl Chloride	ND	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*83*	*80-127*				
4-Bromofluorobenzene	*108*	*78-125*				
Client ID:	**FL358-MW6-230607**					
Laboratory ID:	06-079-03					
Vinyl Chloride	1.2	0.80	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.80	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	64	0.80	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	99	0.80	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	34	0.80	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*82*	*75-127*				
Toluene-d8	*83*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

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Samples Submitted: June 7, 2023
Laboratory Reference: 2306-079
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-230606**					
Laboratory ID:	06-079-04					
Vinyl Chloride	3.3	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	3.4	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	0.25	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*84*	*80-127*				
4-Bromofluorobenzene	*108*	*78-125*				
Client ID:	**FL358-MW8-230607**					
Laboratory ID:	06-079-05					
Vinyl Chloride	ND	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*84*	*80-127*				
4-Bromofluorobenzene	*108*	*78-125*				
Client ID:	**FL358-MW9-230607**					
Laboratory ID:	06-079-06					
Vinyl Chloride	ND	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	2.7	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	0.86	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*79*	*75-127*				
Toluene-d8	*83*	*80-127*				
4-Bromofluorobenzene	*107*	*78-125*				

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Samples Submitted: June 7, 2023
Laboratory Reference: 2306-079
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW10-230607**					
Laboratory ID:	06-079-07					
Vinyl Chloride	0.46	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	4.9	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*79*	*75-127*				
Toluene-d8	*82*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				
Client ID:	**FL358-MW11-230607**					
Laboratory ID:	06-079-08					
Vinyl Chloride	3.3	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	4.2	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*78*	*75-127*				
Toluene-d8	*82*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				
Client ID:	**FL358-MW12-230606**					
Laboratory ID:	06-079-09					
Vinyl Chloride	ND	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	0.25	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*84*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

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Samples Submitted: June 7, 2023
Laboratory Reference: 2306-079
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-230606**					
Laboratory ID:	06-079-10					
Vinyl Chloride	ND	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	3.5	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	1.8	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	4.0	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*79*	*75-127*				
Toluene-d8	*83*	*80-127*				
4-Bromofluorobenzene	*107*	*78-125*				
Client ID:	**FL358-MW14-230606**					
Laboratory ID:	06-079-11					
Vinyl Chloride	2.5	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	9.2	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*77*	*75-127*				
Toluene-d8	*82*	*80-127*				
4-Bromofluorobenzene	*108*	*78-125*				
Client ID:	**FL358-Dup-230607**					
Laboratory ID:	06-079-12					
Vinyl Chloride	1.2	0.80	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.80	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	65	0.80	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	96	0.80	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	36	0.80	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*81*	*75-127*				
Toluene-d8	*83*	*80-127*				
4-Bromofluorobenzene	*105*	*78-125*				

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Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-RIN-230606**					
Laboratory ID:	06-079-13					
Vinyl Chloride	ND	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*79*	*75-127*				
Toluene-d8	*83*	*80-127*				
4-Bromofluorobenzene	*105*	*78-125*				
Client ID:	**FL358-RIN-230607**					
Laboratory ID:	06-079-14					
Vinyl Chloride	ND	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*84*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				
Client ID:	**FL358-TB-230606**					
Laboratory ID:	06-079-15					
Vinyl Chloride	ND	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*82*	*75-127*				
Toluene-d8	*84*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

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Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-TB-230607**					
Laboratory ID:	06-079-16					
Vinyl Chloride	ND	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*79*	*75-127*				
Toluene-d8	*82*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				

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TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-230607**					
Laboratory ID:	06-079-01					
Total Organic Carbon	**6.6**	1.0	SM 5310B	6-20-23	6-20-23	
Client ID:	**FL358-MW5B-230607**					
Laboratory ID:	06-079-02					
Total Organic Carbon	**3.8**	1.0	SM 5310B	6-20-23	6-20-23	
Client ID:	**FL358-MW6-230607**					
Laboratory ID:	06-079-03					
Total Organic Carbon	**6.6**	1.0	SM 5310B	6-20-23	6-20-23	
Client ID:	**FL358-MW7-230606**					
Laboratory ID:	06-079-04					
Total Organic Carbon	**18**	1.0	SM 5310B	6-20-23	6-20-23	
Client ID:	**FL358-MW8-230607**					
Laboratory ID:	06-079-05					
Total Organic Carbon	**3.9**	1.0	SM 5310B	6-20-23	6-20-23	
Client ID:	**FL358-MW9-230607**					
Laboratory ID:	06-079-06					
Total Organic Carbon	**12**	1.0	SM 5310B	6-20-23	6-20-23	
Client ID:	**FL358-MW10-230607**					
Laboratory ID:	06-079-07					
Total Organic Carbon	**9.8**	1.0	SM 5310B	6-20-23	6-20-23	
Client ID:	**FL358-MW11-230607**					
Laboratory ID:	06-079-08					
Total Organic Carbon	**22**	1.0	SM 5310B	6-20-23	6-20-23	
Client ID:	**FL358-MW12-230606**					
Laboratory ID:	06-079-09					
Total Organic Carbon	**28**	1.0	SM 5310B	6-20-23	6-20-23	

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TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-230606**					
Laboratory ID:	06-079-10					
Total Organic Carbon	**8.6**	1.0	SM 5310B	6-20-23	6-20-23	
Client ID:	**FL358-MW14-230606**					
Laboratory ID:	06-079-11					
Total Organic Carbon	**9.0**	1.0	SM 5310B	6-20-23	6-20-23	
Client ID:	**FL358-Dup-230607**					
Laboratory ID:	06-079-12					
Total Organic Carbon	**7.0**	1.0	SM 5310B	6-20-23	6-20-23	

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TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-230607**					
Laboratory ID:	06-079-01					
Iron	**1700**	50	EPA 6010D	6-14-23	6-14-23	
Client ID:	**FL358-MW5B-230607**					
Laboratory ID:	06-079-02					
Iron	**320**	50	EPA 6010D	6-14-23	6-14-23	
Client ID:	**FL358-MW6-230607**					
Laboratory ID:	06-079-03					
Iron	**1100**	50	EPA 6010D	6-14-23	6-14-23	
Client ID:	**FL358-MW7-230606**					
Laboratory ID:	06-079-04					
Iron	**45000**	500	EPA 6010D	6-14-23	6-14-23	
Client ID:	**FL358-MW8-230607**					
Laboratory ID:	06-079-05					
Iron	**930**	50	EPA 6010D	6-14-23	6-14-23	
Client ID:	**FL358-MW9-230607**					
Laboratory ID:	06-079-06					
Iron	**54000**	500	EPA 6010D	6-14-23	6-14-23	
Client ID:	**FL358-MW10-230607**					
Laboratory ID:	06-079-07					
Iron	**22000**	50	EPA 6010D	6-14-23	6-14-23	
Client ID:	**FL358-MW11-230607**					
Laboratory ID:	06-079-08					
Iron	**47000**	500	EPA 6010D	6-14-23	6-14-23	

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TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-230606**					
Laboratory ID:	06-079-09					
Iron	**73000**	500	EPA 6010D	6-14-23	6-14-23	
Client ID:	**FL358-MW13-230606**					
Laboratory ID:	06-079-10					
Iron	**7800**	50	EPA 6010D	6-14-23	6-14-23	
Client ID:	**FL358-MW14-230606**					
Laboratory ID:	06-079-11					
Iron	**7800**	50	EPA 6010D	6-14-23	6-14-23	
Client ID:	**FL358-Dup-230607**					
Laboratory ID:	06-079-12					
Iron	**790**	50	EPA 6010D	6-14-23	6-14-23	

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DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-230607**					
Laboratory ID:	06-079-01					
Methane	**510**	5.5	RSK 175	6-13-23	6-13-23	
Ethane	**ND**	0.22	RSK 175	6-13-23	6-13-23	
Ethene	**4.4**	0.29	RSK 175	6-13-23	6-13-23	
Acetylene	**ND**	1.2	RSK 175	6-13-23	6-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*59*	*50-150*				
Client ID:	**FL358-MW5B-230607**					
Laboratory ID:	06-079-02					
Methane	**74**	0.55	RSK 175	6-13-23	6-13-23	
Ethane	**ND**	0.22	RSK 175	6-13-23	6-13-23	
Ethene	**ND**	0.29	RSK 175	6-13-23	6-13-23	
Acetylene	**ND**	1.2	RSK 175	6-13-23	6-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*83*	*50-150*				
Client ID:	**FL358-MW6-230607**					
Laboratory ID:	06-079-03					
Methane	**970**	8.3	RSK 175	6-13-23	6-13-23	
Ethane	**ND**	0.22	RSK 175	6-13-23	6-13-23	
Ethene	**ND**	0.29	RSK 175	6-13-23	6-13-23	
Acetylene	**ND**	1.2	RSK 175	6-13-23	6-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*73*	*50-150*				
Client ID:	**FL358-MW7-230606**					
Laboratory ID:	06-079-04					
Methane	**4900**	28	RSK 175	6-13-23	6-13-23	
Ethane	**ND**	0.22	RSK 175	6-13-23	6-13-23	
Ethene	**ND**	0.29	RSK 175	6-13-23	6-13-23	
Acetylene	**ND**	1.2	RSK 175	6-13-23	6-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*63*	*50-150*				

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DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-230607**					
Laboratory ID:	06-079-05					
Methane	**71**	0.55	RSK 175	6-13-23	6-13-23	
Ethane	**ND**	0.22	RSK 175	6-13-23	6-13-23	
Ethene	**ND**	0.29	RSK 175	6-13-23	6-13-23	
Acetylene	**ND**	1.2	RSK 175	6-13-23	6-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*67*	*50-150*				
Client ID:	**FL358-MW9-230607**					
Laboratory ID:	06-079-06					
Methane	**7900**	55	RSK 175	6-13-23	6-13-23	
Ethane	**ND**	0.22	RSK 175	6-13-23	6-13-23	
Ethene	**ND**	0.29	RSK 175	6-13-23	6-13-23	
Acetylene	**ND**	1.2	RSK 175	6-13-23	6-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*85*	*50-150*				
Client ID:	**FL358-MW10-230607**					
Laboratory ID:	06-079-07					
Methane	**3800**	28	RSK 175	6-14-23	6-14-23	
Ethane	**ND**	0.22	RSK 175	6-14-23	6-14-23	
Ethene	**ND**	0.29	RSK 175	6-14-23	6-14-23	
Acetylene	**ND**	1.2	RSK 175	6-14-23	6-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*72*	*50-150*				
Client ID:	**FL358-MW11-230607**					
Laboratory ID:	06-079-08					
Methane	**4100**	55	RSK 175	6-14-23	6-14-23	
Ethane	**ND**	0.22	RSK 175	6-14-23	6-14-23	
Ethene	**ND**	0.29	RSK 175	6-14-23	6-14-23	
Acetylene	**ND**	1.2	RSK 175	6-14-23	6-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*71*	*50-150*				

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DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-230606**					
Laboratory ID:	06-079-09					
Methane	**5700**	55	RSK 175	6-14-23	6-14-23	
Ethane	**ND**	0.22	RSK 175	6-14-23	6-14-23	
Ethene	**ND**	0.29	RSK 175	6-14-23	6-14-23	
Acetylene	**ND**	1.2	RSK 175	6-14-23	6-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*76*	*50-150*				
Client ID:	**FL358-MW13-230606**					
Laboratory ID:	06-079-10					
Methane	**250**	1.7	RSK 175	6-14-23	6-14-23	
Ethane	**ND**	0.22	RSK 175	6-14-23	6-14-23	
Ethene	**ND**	0.29	RSK 175	6-14-23	6-14-23	
Acetylene	**ND**	1.2	RSK 175	6-14-23	6-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*74*	*50-150*				
Client ID:	**FL358-MW14-230606**					
Laboratory ID:	06-079-11					
Methane	**450**	5.5	RSK 175	6-14-23	6-14-23	
Ethane	**ND**	0.22	RSK 175	6-14-23	6-14-23	
Ethene	**ND**	0.29	RSK 175	6-14-23	6-14-23	
Acetylene	**ND**	1.2	RSK 175	6-14-23	6-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*72*	*50-150*				
Client ID:	**FL358-Dup-230607**					
Laboratory ID:	06-079-12					
Methane	**770**	5.5	RSK 175	6-14-23	6-14-23	
Ethane	**ND**	0.22	RSK 175	6-14-23	6-14-23	
Ethene	**ND**	0.29	RSK 175	6-14-23	6-14-23	
Acetylene	**ND**	1.2	RSK 175	6-14-23	6-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*77*	*50-150*				

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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-230607**					
Laboratory ID:	06-079-01					
Nitrate	**0.061**	0.050	EPA 353.2	6-14-23	6-14-23	
Client ID:	**FL358-MW5B-230607**					
Laboratory ID:	06-079-02					
Nitrate	**ND**	0.050	EPA 353.2	6-14-23	6-14-23	
Client ID:	**FL358-MW6-230607**					
Laboratory ID:	06-079-03					
Nitrate	**ND**	0.050	EPA 353.2	6-14-23	6-14-23	
Client ID:	**FL358-MW7-230606**					
Laboratory ID:	06-079-04					
Nitrate	**0.12**	0.050	EPA 353.2	6-14-23	6-14-23	
Client ID:	**FL358-MW8-230607**					
Laboratory ID:	06-079-05					
Nitrate	**0.058**	0.050	EPA 353.2	6-14-23	6-14-23	
Client ID:	**FL358-MW9-230607**					
Laboratory ID:	06-079-06					
Nitrate	**0.18**	0.050	EPA 353.2	6-14-23	6-14-23	
Client ID:	**FL358-MW10-230607**					
Laboratory ID:	06-079-07					
Nitrate	**0.095**	0.050	EPA 353.2	6-14-23	6-14-23	
Client ID:	**FL358-MW11-230607**					
Laboratory ID:	06-079-08					
Nitrate	**0.18**	0.050	EPA 353.2	6-14-23	6-14-23	
Client ID:	**FL358-MW12-230606**					
Laboratory ID:	06-079-09					
Nitrate	**0.22**	0.050	EPA 353.2	6-14-23	6-14-23	

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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-230606**					
Laboratory ID:	06-079-10					
Nitrate	**0.054**	0.050	EPA 353.2	6-14-23	6-14-23	
Client ID:	**FL358-MW14-230606**					
Laboratory ID:	06-079-11					
Nitrate	**0.065**	0.050	EPA 353.2	6-14-23	6-14-23	
Client ID:	**FL358-Dup-230607**					
Laboratory ID:	06-079-12					
Nitrate	**0.051**	0.050	EPA 353.2	6-14-23	6-14-23	

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NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-230607**					
Laboratory ID:	06-079-01					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	
Client ID:	**FL358-MW5B-230607**					
Laboratory ID:	06-079-02					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	
Client ID:	**FL358-MW6-230607**					
Laboratory ID:	06-079-03					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	
Client ID:	**FL358-MW7-230606**					
Laboratory ID:	06-079-04					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	
Client ID:	**FL358-MW8-230607**					
Laboratory ID:	06-079-05					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	
Client ID:	**FL358-MW9-230607**					
Laboratory ID:	06-079-06					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	
Client ID:	**FL358-MW10-230607**					
Laboratory ID:	06-079-07					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	
Client ID:	**FL358-MW11-230607**					
Laboratory ID:	06-079-08					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	
Client ID:	**FL358-MW12-230606**					
Laboratory ID:	06-079-09					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	

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NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-230606**					
Laboratory ID:	06-079-10					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	
Client ID:	**FL358-MW14-230606**					
Laboratory ID:	06-079-11					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	
Client ID:	**FL358-Dup-230607**					
Laboratory ID:	06-079-12					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-230607**					
Laboratory ID:	06-079-01					
Ammonia	**0.059**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	
Client ID:	**FL358-MW5B-230607**					
Laboratory ID:	06-079-02					
Ammonia	**ND**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	
Client ID:	**FL358-MW6-230607**					
Laboratory ID:	06-079-03					
Ammonia	**0.13**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	
Client ID:	**FL358-MW7-230606**					
Laboratory ID:	06-079-04					
Ammonia	**2.9**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	
Client ID:	**FL358-MW8-230607**					
Laboratory ID:	06-079-05					
Ammonia	**ND**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	
Client ID:	**FL358-MW9-230607**					
Laboratory ID:	06-079-06					
Ammonia	**1.5**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	
Client ID:	**FL358-MW10-230607**					
Laboratory ID:	06-079-07					
Ammonia	**0.61**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	
Client ID:	**FL358-MW11-230607**					
Laboratory ID:	06-079-08					
Ammonia	**3.1**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	
Client ID:	**FL358-MW12-230606**					
Laboratory ID:	06-079-09					
Ammonia	**3.9**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-230606**					
Laboratory ID:	06-079-10					
Ammonia	**0.084**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	
Client ID:	**FL358-MW14-230606**					
Laboratory ID:	06-079-11					
Ammonia	**0.076**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	
Client ID:	**FL358-Dup-230607**					
Laboratory ID:	06-079-12					
Ammonia	**0.081**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0608W1					
Vinyl Chloride	ND	0.20	EPA 8260D	6-8-23	6-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Trichloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	6-8-23	6-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*84*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0608W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.48**	**9.49**	10.0	10.0	95	95	66-133	0	15	
1,1-Dichloroethene	**8.97**	**8.89**	10.0	10.0	90	89	80-128	1	19	
(trans) 1,2-Dichloroethene	**9.19**	**9.17**	10.0	10.0	92	92	81-126	0	15	
(cis) 1,2-Dichloroethene	**9.41**	**9.51**	10.0	10.0	94	95	84-130	1	15	
Trichloroethene	**9.16**	**9.35**	10.0	10.0	92	94	80-122	2	18	
Tetrachloroethene	**10.4**	**10.6**	10.0	10.0	104	106	80-125	2	15	
Surrogate:										
Dibromofluoromethane					*83*	*81*	*75-127*			
Toluene-d8					*86*	*85*	*80-127*			
4-Bromofluorobenzene					*109*	*109*	*78-125*			

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TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0620W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	6-20-23	6-20-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-123-01							
	ORIG DUP							
Total Organic Carbon	**10.2** **10.5**	NA	NA	NA	NA	3	13	
MATRIX SPIKE								
Laboratory ID:	06-123-01							
	MS	MS		MS				
Total Organic Carbon	**20.1**	10.0	10.2	99	86-127	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0620W1							
	SB	SB		SB				
Total Organic Carbon	**10.5**	10.0	NA	105	90-122	NA	NA	

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TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0614WH1					
Iron	**ND**	50	EPA 6010D	6-14-23	6-14-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	06-109-01										
	ORIG	DUP									
Iron	**225**	**216**	NA	NA		NA		NA	4	20	
MATRIX SPIKES											
Laboratory ID:	06-109-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**21000**	**21000**	20000	20000	225	**104**	**104**	75-125	0	20	

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DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0613W1					
Methane	**ND**	0.55	RSK 175	6-13-23	6-13-23	
Ethane	**ND**	0.22	RSK 175	6-13-23	6-13-23	
Ethene	**ND**	0.29	RSK 175	6-13-23	6-13-23	
Acetylene	**ND**	1.2	RSK 175	6-13-23	6-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*83*	*50-150*				
Laboratory ID:	MB0614W1					
Methane	**ND**	0.55	RSK 175	6-14-23	6-14-23	
Ethane	**ND**	0.22	RSK 175	6-14-23	6-14-23	
Ethene	**ND**	0.29	RSK 175	6-14-23	6-14-23	
Acetylene	**ND**	1.2	RSK 175	6-14-23	6-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*87*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0613W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**36.9**	**36.9**	44.2	44.2	84	84	75-125	0	25	
Ethane	**68.3**	**68.2**	83.2	83.2	82	82	75-125	0	25	
Ethene	**62.0**	**62.0**	77.7	77.7	80	80	75-125	0	25	
Acetylene	**59.1**	**58.0**	72.0	72.0	82	81	75-125	2	25	
Surrogate:										
1-Butene					*78*	*78*	*50-150*			
Laboratory ID:	SB0614W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**41.0**	**39.3**	44.2	44.2	93	89	75-125	4	25	
Ethane	**76.0**	**72.3**	83.2	83.2	91	87	75-125	5	25	
Ethene	**69.0**	**64.8**	77.7	77.7	89	83	75-125	6	25	
Acetylene	**61.8**	**59.1**	72.0	72.0	86	82	75-125	4	25	
Surrogate:										
1-Butene					*85*	*78*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 21, 2023
Samples Submitted: June 7, 2023
Laboratory Reference: 2306-079
Project: 4082-039-03 T22.03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0614W2					
Nitrate	**ND**	0.050	EPA 353.2	6-14-23	6-14-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-079-01								
	ORIG	DUP							
Nitrate	**0.0610**	**0.0537**	NA	NA	NA	NA	13	19	
MATRIX SPIKE									
Laboratory ID:	06-079-01								
	MS		MS		MS				
Nitrate	**2.03**		2.00	0.0610	98	85-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0614W2								
	SB		SB		SB				
Nitrate	**1.98**		2.00	NA	99	87-118	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 21, 2023
Samples Submitted: June 7, 2023
Laboratory Reference: 2306-079
Project: 4082-039-03 T22.03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0607W1					
Nitrite	**ND**	0.020	EPA 353.2	6-7-23	6-7-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-079-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	06-079-01							
	MS	MS		MS				
Nitrite	**0.249**	0.250	ND	100	85-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0607W1							
	SB	SB		SB				
Nitrite	**0.254**	0.250	NA	102	89-118	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 21, 2023
Samples Submitted: June 7, 2023
Laboratory Reference: 2306-079
Project: 4082-039-03 T22.03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0615W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	6-15-23	6-15-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-079-01								
	ORIG	DUP							
Ammonia	**0.0589**	**0.0612**	NA	NA	NA	NA	4	27	
MATRIX SPIKE									
Laboratory ID:	06-079-02								
	MS		MS		MS				
Ammonia	**5.23**		5.00	ND	105	78-118	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0615W1								
	SB		SB		SB				
Ammonia	**5.19**		5.00	NA	104	85-114	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Jun 14 2023
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
FL358-MW5A-230607	Water	23-A009841	DEM
FL358-MW5B-230607	Water	23-A009842	DEM
FL358-MW6-230607	Water	23-A009843	DEM
FL358-MW7-230606	Water	23-A009844	DEM
FL358-MW8-230607	Water	23-A009845	DEM
FL358-MW9-230607	Water	23-A009846	DEM
FL358-MW10-230607	Water	23-A009847	DEM
FL358-MW11-230607	Water	23-A009848	DEM
FL358-MW12-230606	Water	23-A009849	DEM
FL358-MW13-230606	Water	23-A009850	DEM
FL358-MW14-230606	Water	23-A009851	DEM
GW DUP-230607	Water	23-A009852	DEM

Your samples were received on Wednesday, June 7, 2023. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

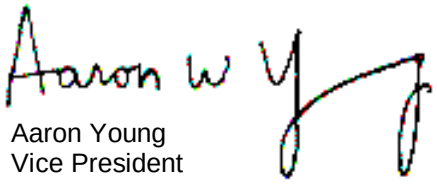
The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,



Aaron Young
Vice President

Project #: 4082-039-03 T22
SDG #: 2329860
PO Number: 06-079

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Mineral

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
SDG Number: 2329860
Project #: 4082-039-03 T22
PO Number: 06-079
All results reported on an as received basis.

Date Received: 06/07/23
Date Reported: 6/14/23

AMTEST Identification Number **23-A009841**
Client Identification **FL358-MW5A-230607**
Sampling Date **06/07/23, 13:45**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	2.6	mg/l		2	SM 5210B	JM	06/08/23

AMTEST Identification Number **23-A009842**
Client Identification **FL358-MW5B-230607**
Sampling Date **06/07/23, 13:35**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	JM	06/08/23

AMTEST Identification Number **23-A009843**
Client Identification **FL358-MW6-230607**
Sampling Date **06/07/23, 12:20**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	JM	06/08/23

AMTEST Identification Number **23-A009844**
Client Identification **FL358-MW7-230606**
Sampling Date **06/06/23, 10:45**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	7.7	mg/l		2	SM 5210B	JM	06/08/23

AMTEST Identification Number **23-A009845**
Client Identification **FL358-MW8-230607**
Sampling Date **06/07/23, 11:35**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	JM	06/08/23

AMTEST Identification Number **23-A009846**
Client Identification **FL358-MW9-230607**
Sampling Date **06/07/23, 10:45**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	18.	mg/l		2	SM 5210B	JM	06/08/23

AMTEST Identification Number **23-A009847**
Client Identification **FL358-MW10-230607**
Sampling Date **06/07/23, 08:40**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	8.0	mg/l	P	2	SM 5210B	JM	06/08/23

AMTEST Identification Number **23-A009848**
Client Identification **FL358-MW11-230607**
Sampling Date **06/07/23, 08:52**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	12.	mg/l	P	2	SM 5210B	JM	06/08/23

AMTEST Identification Number **23-A009849**
Client Identification **FL358-MW12-230606**
Sampling Date **06/06/23, 11:07**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	13.	mg/l		2	SM 5210B	JM	06/08/23

AMTEST Identification Number **23-A009850**
Client Identification **FL358-MW13-230606**
Sampling Date **06/06/23, 12:57**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	JM	06/08/23

AMTEST Identification Number **23-A009851**
Client Identification **FL358-MW14-230606**
Sampling Date **06/06/23, 12:50**

Demand

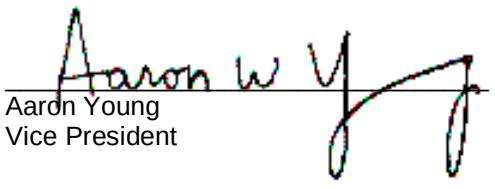
PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	JM	06/08/23

AMTEST Identification Number **23-A009852**
Client Identification **GW DUP-230607**
Sampling Date **06/07/23, 06:00**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	2.8	mg/l		2	SM 5210B	JM	06/08/23

P = Oxygen depletion exceeded method specification. Sample was diluted.



Aaron Young
Vice President

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample numbers: 23-A009841 to 23-A009852

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
23-A009864	BOD	mg/l	260	280	7.4

BLANKS

ANALYTE	UNITS	RESULT
BOD	mg/l	< 2

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 06-079

Laboratory: AmTest Laboratories

Turnaround Request

Project Manager: David Baumeister

Attention: Aaron Young

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

13600 NE 126th Pl Kirkland, WA 98034

Standard

Project Number: 4082-039-03 T22.03

Phone Number: (425) 885-1664

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
9841	FL358-MW5A-230607	6/7/23	13:45	W	1	BOD 5
9842	FL358-MW5B-230607	6/7/23	13:35	W	1	BOD 5
9843	FL358-MW6-230607	6/7/23	12:20	W	1	BOD 5
9844	FL358-MW7-230606	6/6/23	10:45	W	1	BOD 5
9845	FL358-MW8-230607	6/7/23	11:35	W	1	BOD 5
9846	FL358-MW9-230607	6/7/23	10:45	W	1	BOD 5
9847	FL358-MW10-230607	6/7/23	8:40	W	1	BOD 5
9848	FL358-MW11-230607	6/7/23	8:52	W	1	BOD 5
9849	FL358-MW12-230606	6/6/23	11:07	W	1	BOD 5
9850	FL358-MW13-230606	6/6/23	12:57	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	6/7/23	1603	EDDs
Received by: KH	Amtest	6/7/23	1603	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				T=13.2°C

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 06-079

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other:

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03 T22.03

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
9851	FL358-MW14-230606	6/6/23	12:50	W	1	BOD 5
9852	GW Dup-230607	6/7/23	6:00	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	ESE	6/7/23	1603	EDDs
Received by:	Amtest	6/8/23	1603	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				T=13.2°C

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03 T 22.03
Project Name: FL358
Project Manager: Katy Atakturk
Sampled by: JAK/PDR

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
■ Standard (7 Days)
(TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 06-079

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Project VOCs (1)	VOCs by 8260C + TICs	VOCs by 8260C	Alkalinity by EPA 310.2	TOC by SM 5310B	COD by EPA 410.4 (2)	Total Fe by EPA 6010D	Total and Dis Mn by EPA 6000 series (3)	Nitrate by EPA 353.2 (4)	Sulfate by ASTM D516-07	Sulfide by SM4500S2D (2)	Methane, Ethane, Ethene by RSK 175	Chloride by SM4500-Cl E			BOD (SM 5210B)	Dissolved Gases (RSK 175)	Nitrate/Nitrite (EPA 353.2)	Ammonia (SM 4500-NH3)			% Moisture
1	FL358-MW5A-2306 07	6/7/23	1345	W	10	X				X		X									X	X	X	X			
2	FL358-MW5B-2306 07	6/7/23	1335	W	10	X				X		X									X	X	X	X			
3	FL358-MW6-2306 07	6/7/23	1200	W	10	X				X		X									X	X	X	X			
4	FL358-MW7-2306 06	6/6/23	1045	W	10	X				X		X									X	X	X	X			
5	FL358-MW8-2306 07	6/7/23	1125	W	10	X				X		X									X	X	X	X			
6	FL358-MW9-2306 07	6/7/23	1045	W	10	X				X		X									X	X	X	X			
7	FL358-MW10-2306 07	6/7/23	0840	W	10	X				X		X									X	X	X	X			
8	FL358-MW11-2306 07	6/7/23	0852	W	10	X				X		X									X	X	X	X			
9	FL358-MW12-2306 06	6/6/23	1107	W	10	X				X		X									X	X	X	X			
10	FL358-MW13-2306 06	6/6/23	1257	W	10	X				X		X									X	X	X	X			

	Signature	Company	Date	Time
Relinquished		GEI	6/7/23	1525
Received		CORE	6/7/23	1525
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Project VOCs: PCE + Breakdown products
Dissolved Gases: Ethene + Methane + Acetylene
Report Nitrate & Nitrite as separate values

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ■ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03 T 22.03
Project Name: FL358
Project Manager: Katy Atakturk
Sampled by: JAK/PDR

Turnaround Request (in working days)

(Check One)

- ☐ Same Day ☐ 1 Day
- ☐ 2 Days ☐ 3 Days
- ■ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 06-079

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Project VOCs (1)	VOCs by 8260C + TICs	VOCs by 8260C	Alkalinity by EPA 310.2	TOC by SM 5310B	COD by EPA 410.4 (2)	Total Fe by EPA 6010D	Total and Dis Mn by EPA 6000 series (3)	Nitrate by EPA 353.2 (4)	Sulfate by ASTM D516-07	Sulfide by SM4500S2D (2)	Methane, Ethane, Ethene by RSK 175	Chloride by SM4500-Cl E			BOD (SM 5210B)	Dissolved Gases (RSK 175)	Nitrate/Nitrite (EPA 353.2)	Ammonia (SM 4500-NH3)			% Moisture
11	FL358-MW14-230606	6/6/23	1250	W	10	X				X		X									X	X	X	X			
12	~~FL358-OW~~ Dup-230607	6/7/23	0600	W	10	X				X		X									X	X	X	X			
13	FL358-RIN-230606	6/6/2023	1350	W	3	X																					
14	FL358-RIN-230607	6/7/2023	1415	W	3	X																					
15	FL358-TB-230606	6/6/2023	—	W 6/7/23	1	X																					
16	FL358-TB-230607	6/7/2023	—	W	1	X																					

	Signature	Company	Date	Time
Relinquished		GEI	6/7/23	1525
Received		OSE	6/7/23	1525
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Project VOCs: PCE + Breakdown products
Dissolved Gases: Ethene + Methane + Acetylene
Report Nitrate & Nitrite as separate values

Reviewed/Date _____ Reviewed/Date _____

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ■ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 22, 2023

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2309-118

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on September 13, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

Case Narrative

Samples were collected on September 12 and 13, 2023 and received by the laboratory on September 13, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Dissolved Gases RSK 175 Analysis

The client did not initially indicate on the chain of custody that the samples were to be analyzed for Acetylene in addition to the regular RSK-175 analytes, therefore Acetylene was not added to the continuing calibration mixture or to the spiking solution. At the clients request the samples were inspected for the presence of Acetylene after the fact, but please note there is no calibration confirmation for these samples. It should be noted that all other analytes were in calibration, and it is very unusual for a single compound (in this case Acetylene) to fail calibration if all other compounds are properly calibrated, and that all samples were non-detect for this Acetylene, and so we are confident in the validity of this data.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW7-230912	09-118-01	Water	9-12-23	9-13-23	
FL358-MW10-230912	09-118-02	Water	9-12-23	9-13-23	
FL358-MW11-230912	09-118-03	Water	9-12-23	9-13-23	
FL358-MW12-230912	09-118-04	Water	9-12-23	9-13-23	
FL358-MW14-230912	09-118-05	Water	9-12-23	9-13-23	
FL358-RIN1-230912	09-118-06	Water	9-12-23	9-13-23	
TB-1-230912	09-118-07	Water	---	9-13-23	
FL358-MW5A-230913	09-118-08	Water	9-13-23	9-13-23	
FL358-MW5B-230913	09-118-09	Water	9-13-23	9-13-23	
FL358-MW6-230913	09-118-10	Water	9-13-23	9-13-23	
FL358-MW13-230913	09-118-11	Water	9-13-23	9-13-23	
FL358-MW8-230913	09-118-12	Water	9-13-23	9-13-23	
FL358-MW9-230913	09-118-13	Water	9-13-23	9-13-23	
FL358-DUP-230913	09-118-14	Water	9-13-23	9-13-23	
FL358-RIN2-230913	09-118-15	Water	9-13-23	9-13-23	
TB-2-230913	09-118-16	Water	---	9-13-23	

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-230912**					
Laboratory ID:	09-118-01					
Vinyl Chloride	9.2	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	9.5	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*118*	*80-127*				
4-Bromofluorobenzene	*82*	*78-125*				
Client ID:	**FL358-MW10-230912**					
Laboratory ID:	09-118-02					
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	1.0	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*119*	*80-127*				
4-Bromofluorobenzene	*81*	*78-125*				
Client ID:	**FL358-MW11-230912**					
Laboratory ID:	09-118-03					
Vinyl Chloride	4.5	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	5.1	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*120*	*80-127*				
4-Bromofluorobenzene	*81*	*78-125*				

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-230912**					
Laboratory ID:	09-118-04					
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	0.52	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	0.23	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*119*	*80-127*				
4-Bromofluorobenzene	*81*	*78-125*				
Client ID:	**FL358-MW14-230912**					
Laboratory ID:	09-118-05					
Vinyl Chloride	1.8	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	9.1	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*118*	*80-127*				
4-Bromofluorobenzene	*80*	*78-125*				
Client ID:	**FL358-RIN1-230912**					
Laboratory ID:	09-118-06					
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*75-127*				
Toluene-d8	*118*	*80-127*				
4-Bromofluorobenzene	*82*	*78-125*				

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TB-1-230912**					
Laboratory ID:	09-118-07					
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*119*	*80-127*				
4-Bromofluorobenzene	*81*	*78-125*				
Client ID:	**FL358-MW5A-230913**					
Laboratory ID:	09-118-08					
Vinyl Chloride	11	0.80	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.80	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	110	0.80	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	110	0.80	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	110	0.80	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*75-127*				
Toluene-d8	*117*	*80-127*				
4-Bromofluorobenzene	*81*	*78-125*				
Client ID:	**FL358-MW5B-230913**					
Laboratory ID:	09-118-09					
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*117*	*80-127*				
4-Bromofluorobenzene	*79*	*78-125*				

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Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-230913**					
Laboratory ID:	09-118-10					
Vinyl Chloride	1.3	0.80	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.80	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	86	0.80	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	110	0.80	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	18	0.80	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*117*	*80-127*				
4-Bromofluorobenzene	*81*	*78-125*				
Client ID:	**FL358-MW13-230913**					
Laboratory ID:	09-118-11					
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	2.8	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	1.4	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	3.0	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*121*	*80-127*				
4-Bromofluorobenzene	*80*	*78-125*				
Client ID:	**FL358-MW8-230913**					
Laboratory ID:	09-118-12					
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*120*	*80-127*				
4-Bromofluorobenzene	*82*	*78-125*				

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Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-230913**					
Laboratory ID:	09-118-13					
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	5.6	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	0.86	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*118*	*80-127*				
4-Bromofluorobenzene	*81*	*78-125*				
Client ID:	**FL358-DUP-230913**					
Laboratory ID:	09-118-14					
Vinyl Chloride	1.3	0.80	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.80	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	83	0.80	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	100	0.80	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	17	0.80	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*116*	*80-127*				
4-Bromofluorobenzene	*81*	*78-125*				
Client ID:	**FL358-RIN2-230913**					
Laboratory ID:	09-118-15					
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*75-127*				
Toluene-d8	*119*	*80-127*				
4-Bromofluorobenzene	*83*	*78-125*				

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Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TB-2-230913**					
Laboratory ID:	09-118-16					
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*120*	*80-127*				
4-Bromofluorobenzene	*83*	*78-125*				

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Date of Report: September 22, 2023
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Laboratory Reference: 2309-118
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-230912**					
Laboratory ID:	09-118-01					
Iron	**51000**	500	EPA 6010D	9-19-23	9-20-23	
Client ID:	**FL358-MW10-230912**					
Laboratory ID:	09-118-02					
Iron	**29000**	500	EPA 6010D	9-19-23	9-20-23	
Client ID:	**FL358-MW11-230912**					
Laboratory ID:	09-118-03					
Iron	**44000**	500	EPA 6010D	9-19-23	9-20-23	
Client ID:	**FL358-MW12-230912**					
Laboratory ID:	09-118-04					
Iron	**62000**	500	EPA 6010D	9-19-23	9-20-23	
Client ID:	**FL358-MW14-230912**					
Laboratory ID:	09-118-05					
Iron	**7500**	50	EPA 6010D	9-19-23	9-20-23	
Client ID:	**FL358-MW5A-230913**					
Laboratory ID:	09-118-08					
Iron	**1200**	50	EPA 6010D	9-19-23	9-20-23	
Client ID:	**FL358-MW5B-230913**					
Laboratory ID:	09-118-09					
Iron	**590**	50	EPA 6010D	9-19-23	9-20-23	
Client ID:	**FL358-MW6-230913**					
Laboratory ID:	09-118-10					
Iron	**3600**	50	EPA 6010D	9-19-23	9-20-23	

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Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-230913**					
Laboratory ID:	09-118-11					
Iron	**4000**	50	EPA 6010D	9-19-23	9-20-23	
Client ID:	**FL358-MW8-230913**					
Laboratory ID:	09-118-12					
Iron	**2900**	50	EPA 6010D	9-19-23	9-20-23	
Client ID:	**FL358-MW9-230913**					
Laboratory ID:	09-118-13					
Iron	**46000**	500	EPA 6010D	9-19-23	9-20-23	
Client ID:	**FL358-DUP-230913**					
Laboratory ID:	09-118-14					
Iron	**3600**	50	EPA 6010D	9-19-23	9-20-23	

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Laboratory Reference: 2309-118
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-230912**					
Laboratory ID:	09-118-01					
Methane	**1500**	11	RSK 175	9-19-23	9-19-23	
Ethene	**0.73**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*76*	*50-150*				
Client ID:	**FL358-MW10-230912**					
Laboratory ID:	09-118-02					
Methane	**3500**	55	RSK 175	9-19-23	9-19-23	
Ethene	**ND**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*76*	*50-150*				
Client ID:	**FL358-MW11-230912**					
Laboratory ID:	09-118-03					
Methane	**1600**	11	RSK 175	9-19-23	9-19-23	
Ethene	**ND**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*75*	*50-150*				
Client ID:	**FL358-MW12-230912**					
Laboratory ID:	09-118-04					
Methane	**1800**	11	RSK 175	9-19-23	9-19-23	
Ethene	**ND**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*79*	*50-150*				
Client ID:	**FL358-MW14-230912**					
Laboratory ID:	09-118-05					
Methane	**100**	0.55	RSK 175	9-19-23	9-19-23	
Ethene	**ND**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*102*	*50-150*				

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-230913**					
Laboratory ID:	09-118-08					
Methane	**360**	5.5	RSK 175	9-19-23	9-19-23	
Ethene	**0.87**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*111*	*50-150*				
Client ID:	**FL358-MW5B-230913**					
Laboratory ID:	09-118-09					
Methane	**110**	0.55	RSK 175	9-19-23	9-19-23	
Ethene	**ND**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*98*	*50-150*				
Client ID:	**FL358-MW6-230913**					
Laboratory ID:	09-118-10					
Methane	**230**	2.2	RSK 175	9-19-23	9-19-23	
Ethene	**ND**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*95*	*50-150*				
Client ID:	**FL358-MW13-230913**					
Laboratory ID:	09-118-11					
Methane	**170**	1.1	RSK 175	9-19-23	9-19-23	
Ethene	**ND**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*112*	*50-150*				
Client ID:	**FL358-MW8-230913**					
Laboratory ID:	09-118-12					
Methane	**67**	0.55	RSK 175	9-19-23	9-19-23	
Ethene	**ND**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*99*	*50-150*				

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-230913**					
Laboratory ID:	09-118-13					
Methane	**4900**	55	RSK 175	9-19-23	9-19-23	
Ethene	**ND**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*89*	*50-150*				
Client ID:	**FL358-DUP-230913**					
Laboratory ID:	09-118-14					
Methane	**200**	2.2	RSK 175	9-19-23	9-19-23	
Ethene	**ND**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*106*	*50-150*				

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-230912**					
Laboratory ID:	09-118-01					
Nitrate	**0.067**	0.050	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW10-230912**					
Laboratory ID:	09-118-02					
Nitrate	**ND**	0.050	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW11-230912**					
Laboratory ID:	09-118-03					
Nitrate	**0.076**	0.050	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW12-230912**					
Laboratory ID:	09-118-04					
Nitrate	**ND**	0.050	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW14-230912**					
Laboratory ID:	09-118-05					
Nitrate	**ND**	0.050	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW5A-230913**					
Laboratory ID:	09-118-08					
Nitrate	**ND**	0.050	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW5B-230913**					
Laboratory ID:	09-118-09					
Nitrate	**ND**	0.050	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW6-230913**					
Laboratory ID:	09-118-10					
Nitrate	**ND**	0.050	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW13-230913**					
Laboratory ID:	09-118-11					
Nitrate	**ND**	0.050	EPA 353.2	9-14-23	9-14-23	

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-230913**					
Laboratory ID:	09-118-12					
Nitrate	**ND**	0.050	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW9-230913**					
Laboratory ID:	09-118-13					
Nitrate	**0.074**	0.050	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-DUP-230913**					
Laboratory ID:	09-118-14					
Nitrate	**ND**	0.050	EPA 353.2	9-14-23	9-14-23	

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-230912**					
Laboratory ID:	09-118-01					
Nitrite	**ND**	0.020	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW10-230912**					
Laboratory ID:	09-118-02					
Nitrite	**ND**	0.020	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW11-230912**					
Laboratory ID:	09-118-03					
Nitrite	**ND**	0.020	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW12-230912**					
Laboratory ID:	09-118-04					
Nitrite	**ND**	0.020	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW14-230912**					
Laboratory ID:	09-118-05					
Nitrite	**ND**	0.020	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW5A-230913**					
Laboratory ID:	09-118-08					
Nitrite	**ND**	0.020	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW5B-230913**					
Laboratory ID:	09-118-09					
Nitrite	**ND**	0.020	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW6-230913**					
Laboratory ID:	09-118-10					
Nitrite	**0.044**	0.020	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW13-230913**					
Laboratory ID:	09-118-11					
Nitrite	**ND**	0.020	EPA 353.2	9-14-23	9-14-23	

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Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-230913**					
Laboratory ID:	09-118-12					
Nitrite	**ND**	0.020	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-MW9-230913**					
Laboratory ID:	09-118-13					
Nitrite	**0.028**	0.020	EPA 353.2	9-14-23	9-14-23	
Client ID:	**FL358-DUP-230913**					
Laboratory ID:	09-118-14					
Nitrite	**0.037**	0.020	EPA 353.2	9-14-23	9-14-23	

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Date of Report: September 22, 2023
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Laboratory Reference: 2309-118
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-230912**					
Laboratory ID:	09-118-01					
Total Organic Carbon	**19**	1.0	SM 5310B	9-20-23	9-20-23	
Client ID:	**FL358-MW10-230912**					
Laboratory ID:	09-118-02					
Total Organic Carbon	**10**	1.0	SM 5310B	9-20-23	9-20-23	
Client ID:	**FL358-MW11-230912**					
Laboratory ID:	09-118-03					
Total Organic Carbon	**21**	1.0	SM 5310B	9-20-23	9-20-23	
Client ID:	**FL358-MW12-230912**					
Laboratory ID:	09-118-04					
Total Organic Carbon	**27**	1.0	SM 5310B	9-20-23	9-20-23	
Client ID:	**FL358-MW14-230912**					
Laboratory ID:	09-118-05					
Total Organic Carbon	**8.3**	1.0	SM 5310B	9-20-23	9-20-23	
Client ID:	**FL358-MW5A-230913**					
Laboratory ID:	09-118-08					
Total Organic Carbon	**6.4**	1.0	SM 5310B	9-20-23	9-20-23	
Client ID:	**FL358-MW5B-230913**					
Laboratory ID:	09-118-09					
Total Organic Carbon	**3.1**	1.0	SM 5310B	9-20-23	9-20-23	
Client ID:	**FL358-MW6-230913**					
Laboratory ID:	09-118-10					
Total Organic Carbon	**5.9**	1.0	SM 5310B	9-20-23	9-20-23	
Client ID:	**FL358-MW13-230913**					
Laboratory ID:	09-118-11					
Total Organic Carbon	**8.5**	1.0	SM 5310B	9-20-23	9-20-23	

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-230913**					
Laboratory ID:	09-118-12					
Total Organic Carbon	**2.8**	1.0	SM 5310B	9-20-23	9-20-23	
Client ID:	**FL358-MW9-230913**					
Laboratory ID:	09-118-13					
Total Organic Carbon	**10**	1.0	SM 5310B	9-20-23	9-20-23	
Client ID:	**FL358-DUP-230913**					
Laboratory ID:	09-118-14					
Total Organic Carbon	**5.9**	1.0	SM 5310B	9-20-23	9-20-23	

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Date of Report: September 22, 2023
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Laboratory Reference: 2309-118
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-230912**					
Laboratory ID:	09-118-01					
Ammonia	**3.8**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	
Client ID:	**FL358-MW10-230912**					
Laboratory ID:	09-118-02					
Ammonia	**0.74**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	
Client ID:	**FL358-MW11-230912**					
Laboratory ID:	09-118-03					
Ammonia	**3.5**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	
Client ID:	**FL358-MW12-230912**					
Laboratory ID:	09-118-04					
Ammonia	**3.6**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	
Client ID:	**FL358-MW14-230912**					
Laboratory ID:	09-118-05					
Ammonia	**0.22**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	
Client ID:	**FL358-MW5A-230913**					
Laboratory ID:	09-118-08					
Ammonia	**0.16**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	
Client ID:	**FL358-MW5B-230913**					
Laboratory ID:	09-118-09					
Ammonia	**0.082**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	
Client ID:	**FL358-MW6-230913**					
Laboratory ID:	09-118-10					
Ammonia	**0.089**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	
Client ID:	**FL358-MW13-230913**					
Laboratory ID:	09-118-11					
Ammonia	**0.063**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	

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Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-230913**					
Laboratory ID:	09-118-12					
Ammonia	**ND**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	
Client ID:	**FL358-MW9-230913**					
Laboratory ID:	09-118-13					
Ammonia	**1.8**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	
Client ID:	**FL358-DUP-230913**					
Laboratory ID:	09-118-14					
Ammonia	**0.14**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	

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Date of Report: September 22, 2023
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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915W1					
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*119*	*80-127*				
4-Bromofluorobenzene	*83*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0915W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**11.0**	**10.9**	10.0	10.0	110	109	71-135	1	20	
1,1-Dichloroethene	**10.0**	**10.2**	10.0	10.0	100	102	78-125	2	19	
(trans) 1,2-Dichloroethene	**9.99**	**10.2**	10.0	10.0	100	102	80-125	2	17	
(cis) 1,2-Dichloroethene	**10.1**	**10.2**	10.0	10.0	101	102	80-129	1	17	
Trichloroethene	**9.87**	**10.0**	10.0	10.0	99	100	80-122	1	18	
Tetrachloroethene	**10.8**	**11.4**	10.0	10.0	108	114	80-124	5	18	
Surrogate:										
Dibromofluoromethane					*103*	*103*	*75-127*			
Toluene-d8					*117*	*119*	*80-127*			
4-Bromofluorobenzene					*92*	*88*	*78-125*			

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Date of Report: September 22, 2023
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TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919WH1					
Iron	**ND**	50	EPA 6010D	9-19-23	9-20-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-099-08										
	ORIG	DUP									
Iron	**9210**	**8910**	NA	NA		NA		NA	3	20	
MATRIX SPIKES											
Laboratory ID:	09-099-08										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**31200**	**30200**	20000	20000	9210	**110**	**105**	75-125	3	20	

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
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DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919W1					
Methane	**ND**	0.55	RSK 175	9-19-23	9-19-23	
Ethene	**ND**	0.29	RSK 175	9-19-23	9-19-23	
Acetylene	**ND**	1.2	RSK 175	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*94*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0919W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**46.1**	**45.9**	44.2	44.2	104	104	75-125	0	25	
Ethene	**76.3**	**76.2**	77.7	77.7	98	98	75-125	0	25	
Surrogate:										
1-Butene					*95*	*95*	*50-150*			

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Date of Report: September 22, 2023
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Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915W1					
Nitrate	**ND**	0.050	EPA 353.2	9-14-23	9-14-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-118-09							
	ORIG DUP							
Nitrate	**ND** **ND**	NA	NA	NA	NA	NA	19	
MATRIX SPIKE								
Laboratory ID:	09-118-09							
	MS	MS		MS				
Nitrate	**1.99**	2.00	ND	100	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0915W1							
	SB	SB		SB				
Nitrate	**1.96**	2.00	NA	98	87-118	NA	NA	

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Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0914W1					
Nitrite	**ND**	0.020	EPA 353.2	9-14-23	9-14-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-118-09							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	09-118-09							
	MS	MS		MS				
Nitrite	**0.273**	0.250	ND	109	85-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0914W1							
	SB	SB		SB				
Nitrite	**0.270**	0.250	NA	108	89-118	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-20-23	9-20-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-118-01								
	ORIG	DUP							
Total Organic Carbon	**18.9**	**19.3**	NA	NA	NA	NA	2	13	
MATRIX SPIKE									
Laboratory ID:	09-118-01								
	MS		MS		MS				
Total Organic Carbon	**28.7**		10.0	18.9	98	86-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0920W1								
	SB		SB		SB				
Total Organic Carbon	**9.23**		10.0	NA	92	90-122	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 22, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-118
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0914W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	9-14-23	9-14-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-056-01								
	ORIG	DUP							
Ammonia	**0.581**	**0.518**	NA	NA	NA	NA	11	27	
MATRIX SPIKE									
Laboratory ID:	09-056-01								
	MS		MS		MS				
Ammonia	**4.89**		5.00	0.581	86	78-118	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0914W1								
	SB		SB		SB				
Ammonia	**5.01**		5.00	NA	100	85-114	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Sep 20 2023
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
FL358-MW7-230912	Water	23-A015585	DEM
FL358-MW10-230912	Water	23-A015586	DEM
FL358-MW11-230912	Water	23-A015587	DEM
FL358-MW12-230912	Water	23-A015588	DEM
FL358-MW14-230912	Water	23-A015589	DEM
FL358-MW5A-230913	Water	23-A015590	DEM
FL358-MW5B-230913	Water	23-A015591	DEM
FL358-MW6-230913	Water	23-A015592	DEM
FL358-MW13-230913	Water	23-A015593	DEM
FL358-MW8-230913	Water	23-A015594	DEM
FL358-MW9-230913	Water	23-A015595	DEM
FL358-DUP-230913	Water	23-A015596	DEM

Your samples were received on Wednesday, September 13, 2023. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

Aaron Young
Vice President

Project #: 4082-039-03
SDG #: 2331220
PO Number: 09-118

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Mineral

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
SDG Number: 2331220
Project #: 4082-039-03
PO Number: 09-118
All results reported on an as received basis.

Date Received: 09/13/23
Date Reported: 9/20/23

AMTEST Identification Number **23-A015585**
Client Identification **FL358-MW7-230912**
Sampling Date **09/12/23, 13:15**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	7.8	mg/l		2	SM 5210B	HU	09/14/23

AMTEST Identification Number **23-A015586**
Client Identification **FL358-MW10-230912**
Sampling Date **09/12/23, 14:50**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	4.6	mg/l		2	SM 5210B	HU	09/14/23

AMTEST Identification Number **23-A015587**
Client Identification **FL358-MW11-230912**
Sampling Date **09/12/23, 12:50**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	3.5	mg/l		2	SM 5210B	HU	09/14/23

AMTEST Identification Number **23-A015588**
Client Identification **FL358-MW12-230912**
Sampling Date **09/12/23, 10:10**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	6.6	mg/l		2	SM 5210B	HU	09/14/23

AMTEST Identification Number **23-A015589**
Client Identification **FL358-MW14-230912**
Sampling Date **09/12/23, 15:05**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	HU	09/14/23

AMTEST Identification Number **23-A015590**
Client Identification **FL358-MW5A-230913**
Sampling Date **09/13/23, 13:50**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	2.4	mg/l	S	2	SM 5210B	HU	09/14/23

AMTEST Identification Number **23-A015591**
Client Identification **FL358-MW5B-230913**
Sampling Date **09/13/23, 12:55**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	HU	09/14/23

AMTEST Identification Number **23-A015592**
Client Identification **FL358-MW6-230913**
Sampling Date **09/13/23, 12:20**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	HU	09/14/23

AMTEST Identification Number **23-A015593**
Client Identification **FL358-MW13-230913**
Sampling Date **09/13/23, 09:20**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	HU	09/14/23

AMTEST Identification Number **23-A015594**
Client Identification **FL358-MW8-230913**
Sampling Date **09/13/23, 11:20**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	2.0	mg/l	S	2	SM 5210B	HU	09/14/23

AMTEST Identification Number **23-A015595**
Client Identification **FL358-MW9-230913**
Sampling Date **09/13/23, 10:05**

Demand

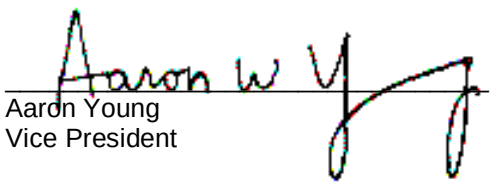
PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l	S	2	SM 5210B	HU	09/14/23

AMTEST Identification Number **23-A015596**
Client Identification **FL358-DUP-230913**
Sampling Date **09/13/23, 06:00**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	HU	09/14/23

S = Sample did not meet the method specification of 2ppm depletion.



Aaron Young
Vice President

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample numbers: 23-A015585 to 23-A015596

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
23-A015602	BOD	mg/l	290	310	6.7

BLANKS

ANALYTE	UNITS	RESULT
BOD	mg/l	< 2

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 09-118

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day ~~2 Day~~ 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
15585	FL358-MW7-230912	9/12/23	13:15	W	1	BOD 5
15586	FL358-MW10-230912	9/12/23	14:50	W	1	BOD 5
15587	FL358-MW11-230912	9/12/23	12:50	W	1	BOD 5
15588	FL358-MW12-230912	9/12/23	10:10	W	1	BOD 5
15589	FL358-MW14-230912	9/12/23	15:05	W	1	BOD 5
15590	FL358-MW5A-230913	9/13/23	13:50	W	1	BOD 5
15591	FL358-MW5B-230913	9/13/23	12:55	W	1	BOD 5
15592	FL358-MW6-230913	9/13/23	12:20	W	1	BOD 5
15593	FL358-MW13-230913	9/13/23	9:20	W	1	BOD 5
15594	FL358-MW8-230913	9/13/23	11:20	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	9/13/23	1616	EDDs
Received by:	Amtest	9/13/23	1616	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

T=5.3°C

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 09-118

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
15595	FL358-MW9-230913	9/13/23	10:05	W	1	BOD 5
15596	FL358-DUP-230913	9/13/23	6:00	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	9/13/23	1616	T=5.3°C
Received by: KH	9/13/23	1616 9/13/23	1616	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

① Wrong time in wrong spot KH 9/13/23

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: Federal Way Link Ext. FL358
Project Manager: Katy Atakturk
Sampled by: Paul Robinette/James Kohn

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-118

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FL358-MW7-230912	9/12/2023	1315	W	10
2	FL358-MW10-230912	9/12/2023	1450	W	10
3	FL358-MW11-230912	9/12/2023	1250	W	10
4	FL358-MW12-230912	9/12/2023	1010	W	10
5	FL358-MW14-230912	9/12/2023	1505	W	10
6	FL358-RIN1-230912	9/12/2023	1530	W	3 10
7	TB-1-230912	—	—	W	2

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total ~~RCRA Metals~~ IRON	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	~~HOLD~~ Diss. Gases	Nitrate/Nitrite	BOD + TOC	Ammonia	% Moisture
1					X									X				X	X	X	X	
2					↓									|				|	|	|	|	
3					↓									|				|	|	|	|	
4					↓									|				|	|	|	|	
5					↓									|				—	—	—	—	
6	9/13/23				X																	
7					X																	

	Signature	Company	Date	Time
Relinquished		GEL	9/13/23	1538
Received		OSE	9/13/23	1538
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
VOCs – PCE + BREAKDOWN ONLY

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: Federal Way Link Ext. FL358
Project Manager: Katy Atakturk
Sampled by: Paul Robinette

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-118

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total ~~RCRA Metals~~ IRON	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	~~HOLD~~ DISS GASES	NITRATE/NITRITE	BOD + TOC	AMMONIA	% Moisture
8	FL358-MW5A-230913	9/13/2023	1350	W	10					X									X				X	X	X	X	
9	FL358-MW5B-230913	9/13/2023	1235	W	10																						
10	FL358-MW6-230913	9/13/2023	1220	W	10																						
11	FL358-MW13-230913	9/13/2023	920	W	10																						
12	FL358-MW8-230913	9/13/2023	1120	W	10																						
13	FL358-MW9-230913	9/13/2023	1005	W	10																						
14	FL358-DUP-230913	9/13/2023	0600	W	10																						
15	FL358-RIN2-230913	9/13/2023	1414	W	3																						
16	TB-2-230913	—	—	W	1																						

	Signature	Company	Date	Time
Relinquished		GEI	9/13/23	1538
Received		ONE	9/13/23	1538
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
VOCs - PCE + BREAKDOWN ONLY

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 28, 2023

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2312-112

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on December 7, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

Case Narrative

Samples were collected on December 7, 2023 and received by the laboratory on December 7, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW7-231207	12-112-01	Water	12-7-23	12-7-23	
FL358-MW12-231207	12-112-02	Water	12-7-23	12-7-23	
FL358-MW13-231207	12-112-03	Water	12-7-23	12-7-23	
FL358-MW14-231207	12-112-04	Water	12-7-23	12-7-23	
TB1-231207	12-112-05	Water	---	12-7-23	
RB1-231207	12-112-06	Water	12-7-23	12-7-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-231207**					
Laboratory ID:	12-112-01					
Vinyl Chloride	10	0.40	EPA 8260D	12-18-23	12-18-23	
1,1-Dichloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
(cis) 1,2-Dichloroethene	7.4	0.40	EPA 8260D	12-18-23	12-18-23	
Trichloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
Tetrachloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*93*	*78-125*				
Client ID:	**FL358-MW12-231207**					
Laboratory ID:	12-112-02					
Vinyl Chloride	0.29	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
Trichloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
Tetrachloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				
Client ID:	**FL358-MW13-231207**					
Laboratory ID:	12-112-03					
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	3.3	0.20	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	1.5	0.20	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	3.2	0.20	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*75-127*				
Toluene-d8	*91*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW14-231207**					
Laboratory ID:	12-112-04					
Vinyl Chloride	1.9	0.40	EPA 8260D	12-18-23	12-18-23	
1,1-Dichloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
(cis) 1,2-Dichloroethene	8.2	0.40	EPA 8260D	12-18-23	12-18-23	
Trichloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
Tetrachloroethene	ND	0.40	EPA 8260D	12-18-23	12-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Client ID:	**TB1-231207**					
Laboratory ID:	12-112-05					
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*90*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Client ID:	**RB1-231207**					
Laboratory ID:	12-112-06					
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*90*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-231207**					
Laboratory ID:	12-112-01					
Iron	**46000**	500	EPA 6010D	12-9-23	12-12-23	
Client ID:	**FL358-MW12-231207**					
Laboratory ID:	12-112-02					
Iron	**59000**	500	EPA 6010D	12-9-23	12-12-23	
Client ID:	**FL358-MW13-231207**					
Laboratory ID:	12-112-03					
Iron	**4800**	50	EPA 6010D	12-9-23	12-11-23	
Client ID:	**FL358-MW14-231207**					
Laboratory ID:	12-112-04					
Iron	**6000**	50	EPA 6010D	12-9-23	12-11-23	

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-231207**					
Laboratory ID:	12-112-01					
Total Organic Carbon	**20**	1.0	SM 5310B	12-18-23	12-18-23	
Client ID:	**FL358-MW12-231207**					
Laboratory ID:	12-112-02					
Total Organic Carbon	**27**	1.0	SM 5310B	12-18-23	12-18-23	
Client ID:	**FL358-MW13-231207**					
Laboratory ID:	12-112-03					
Total Organic Carbon	**7.7**	1.0	SM 5310B	12-18-23	12-18-23	
Client ID:	**FL358-MW14-231207**					
Laboratory ID:	12-112-04					
Total Organic Carbon	**8.6**	1.0	SM 5310B	12-18-23	12-18-23	

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-231207**					
Laboratory ID:	12-112-01					
Nitrate	**0.32**	0.050	EPA 353.2	12-11-23	12-11-23	
Client ID:	**FL358-MW12-231207**					
Laboratory ID:	12-112-02					
Nitrate	**0.31**	0.050	EPA 353.2	12-11-23	12-11-23	
Client ID:	**FL358-MW13-231207**					
Laboratory ID:	12-112-03					
Nitrate	**0.086**	0.050	EPA 353.2	12-11-23	12-11-23	
Client ID:	**FL358-MW14-231207**					
Laboratory ID:	12-112-04					
Nitrate	**0.077**	0.050	EPA 353.2	12-11-23	12-11-23	

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-231207**					
Laboratory ID:	12-112-01					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	
Client ID:	**FL358-MW12-231207**					
Laboratory ID:	12-112-02					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	
Client ID:	**FL358-MW13-231207**					
Laboratory ID:	12-112-03					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	
Client ID:	**FL358-MW14-231207**					
Laboratory ID:	12-112-04					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-231207**					
Laboratory ID:	12-112-01					
Methane	**2400**	28	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*101*	*50-150*				
Client ID:	**FL358-MW12-231207**					
Laboratory ID:	12-112-02					
Methane	**1700**	28	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*92*	*50-150*				
Client ID:	**FL358-MW13-231207**					
Laboratory ID:	12-112-03					
Methane	**51**	0.55	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*130*	*50-150*				
Client ID:	**FL358-MW14-231207**					
Laboratory ID:	12-112-04					
Methane	**320**	3.3	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*95*	*50-150*				

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-231207**					
Laboratory ID:	12-112-01					
Ammonia	**3.7**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	
Client ID:	**FL358-MW12-231207**					
Laboratory ID:	12-112-02					
Ammonia	**4.1**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	
Client ID:	**FL358-MW13-231207**					
Laboratory ID:	12-112-03					
Ammonia	**0.057**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	
Client ID:	**FL358-MW14-231207**					
Laboratory ID:	12-112-04					
Ammonia	**0.067**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1212W1					
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-127*				
Toluene-d8	*91*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Laboratory ID:	MB1218W1					
Vinyl Chloride	ND	0.20	EPA 8260D	12-18-23	12-18-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-18-23	12-18-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-18-23	12-18-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-18-23	12-18-23	
Trichloroethene	ND	0.20	EPA 8260D	12-18-23	12-18-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-18-23	12-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1212W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.33**	**8.90**	10.0	10.0	93	89	71-135	5	20	
1,1-Dichloroethene	**9.40**	**9.33**	10.0	10.0	94	93	78-125	1	19	
(trans) 1,2-Dichloroethene	**9.52**	**9.48**	10.0	10.0	95	95	80-125	0	17	
(cis) 1,2-Dichloroethene	**9.82**	**9.99**	10.0	10.0	98	100	80-129	2	17	
Trichloroethene	**10.1**	**10.1**	10.0	10.0	101	101	80-122	0	18	
Tetrachloroethene	**11.1**	**11.1**	10.0	10.0	111	111	80-124	0	18	
Surrogate:										
Dibromofluoromethane					*94*	*94*	*75-127*			
Toluene-d8					*92*	*89*	*80-127*			
4-Bromofluorobenzene					*105*	*105*	*78-125*			
Laboratory ID:	SB1218W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.8**	**10.3**	10.0	10.0	108	103	71-135	5	20	
1,1-Dichloroethene	**8.84**	**9.60**	10.0	10.0	88	96	78-125	8	19	
(trans) 1,2-Dichloroethene	**9.69**	**10.5**	10.0	10.0	97	105	80-125	8	17	
(cis) 1,2-Dichloroethene	**9.89**	**10.5**	10.0	10.0	99	105	80-129	6	17	
Trichloroethene	**9.37**	**9.94**	10.0	10.0	94	99	80-122	6	18	
Tetrachloroethene	**9.94**	**10.7**	10.0	10.0	99	107	80-124	7	18	
Surrogate:										
Dibromofluoromethane					*100*	*106*	*75-127*			
Toluene-d8					*100*	*100*	*80-127*			
4-Bromofluorobenzene					*103*	*104*	*78-125*			

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1209WH2					
Iron	**ND**	50	EPA 6010D	12-9-23	12-11-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-053-01										
	ORIG	DUP									
Iron	**790**	**770**	NA	NA		NA		NA	3	20	
MATRIX SPIKES											
Laboratory ID:	12-053-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**20700**	**21300**	20000	20000	790	**100**	**103**	75-125	3	20	

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Date of Report: December 28, 2023
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Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1218W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	12-18-23	12-18-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-062-03								
	ORIG	DUP							
Total Organic Carbon	**ND**	**ND**	NA	NA	NA	NA	NA	13	
MATRIX SPIKE									
Laboratory ID:	12-062-03								
	MS		MS		MS				
Total Organic Carbon	**10.3**		10.0	ND	103	86-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1218W1								
	SB		SB		SB				
Total Organic Carbon	**9.59**		10.0	NA	96	90-122	NA	NA	

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1211W1					
Nitrate	**ND**	0.050	EPA 353.2	12-11-23	12-11-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-112-01								
	ORIG	DUP							
Nitrate	**0.324**	**0.301**	NA	NA	NA	NA	7	19	
MATRIX SPIKE									
Laboratory ID:	12-112-01								
	MS		MS		MS				
Nitrate	**2.21**		2.00	0.324	94	85-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1211W1								
	SB		SB		SB				
Nitrate	**2.09**		2.00	NA	105	87-118	NA	NA	

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-112-04							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	12-112-04							
	MS	MS		MS				
Nitrite	**0.228**	0.250	ND	91	85-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1208W1							
	SB	SB		SB				
Nitrite	**0.257**	0.250	NA	103	89-118	NA	NA	

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Date of Report: December 28, 2023
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Laboratory Reference: 2312-112
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
Methane	**ND**	0.55	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*108*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB1214W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**46.7**	**44.2**	44.2	44.2	106	100	75-125	6	25	
Ethane	**87.1**	**82.7**	83.2	83.2	105	99	75-125	5	25	
Ethene	**77.9**	**73.0**	77.7	77.7	100	94	75-125	6	25	
Acetylene	**57.2**	**53.8**	72.0	72.0	79	75	60-140	6	25	
Surrogate:										
1-Butene					*102*	*94*	*50-150*			

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Date of Report: December 28, 2023
Samples Submitted: December 7, 2023
Laboratory Reference: 2312-112
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-112-01								
	ORIG	DUP							
Ammonia	**3.72**	**4.05**	NA	NA	NA	NA	8	27	
MATRIX SPIKE									
Laboratory ID:	12-112-01								
	MS		MS		MS				
Ammonia	**9.05**		5.00	3.72	107	78-118	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1227W1								
	SB		SB		SB				
Ammonia	**5.12**		5.00	NA	102	85-114	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Dec 26 2023
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
FL358-MW7-231207	Water	23-A021286	DEM
FL358-MW12-231207	Water	23-A021287	DEM
FL358-MW13-231207	Water	23-A021288	DEM
FL358-MW14-231207	Water	23-A021289	DEM

Your samples were received on Friday, December 8, 2023. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

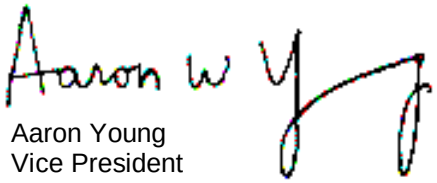
The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,



Aaron Young
Vice President

Project #: 4082-039-03
SDG #: 2332530

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
SDG Number: 2332530
Project #: 4082-039-03
All results reported on an as received basis.

Date Received: 12/08/23
Date Reported: 12/26/23

AMTEST Identification Number **23-A021286**
Client Identification **FL358-MW7-231207**
Sampling Date **12/07/23, 12:15**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	14.	mg/l		2	SM 5210B	JM	12/08/23

AMTEST Identification Number **23-A021287**
Client Identification **FL358-MW12-231207**
Sampling Date **12/07/23, 13:15**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	16.	mg/l	P	2	SM 5210B	JM	12/08/23

AMTEST Identification Number **23-A021288**
Client Identification **FL358-MW13-231207**
Sampling Date **12/07/23, 15:35**

Demand

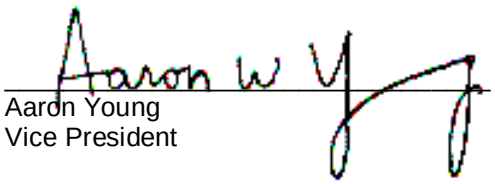
PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	2.0	mg/l		2	SM 5210B	JM	12/08/23

AMTEST Identification Number **23-A021289**
Client Identification **FL358-MW14-231207**
Sampling Date **12/07/23, 14:20**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	JM	12/08/23

P = Oxygen depletion exceeded method specification. Sample was diluted.



Aaron Young
Vice President

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample numbers: 23-A021286 to 23-A021289

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
23-A021231	BOD	mg/l	44.	43.	2.3

BLANKS

ANALYTE	UNITS	RESULT
BOD	mg/l	< 2

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 12-112

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
21286	FL358-MW7-231207	12/7/23	12:15	W	1	BOD 5
21287	FL358-MW12-231207	12/7/23	13:15	W	1	BOD 5
21288	FL358-MW13-231207	12/7/23	15:35	W	1	BOD 5
21289	FL358-MW14-231207	12/7/23	14:20	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	12/8/23	3 pm	EDDS
Received by:	Amtest	12/8/23	1501	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

T=5.3°C

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 4082-039-03
Project Name: FL358
Project Manager: KATY ATATURK
Sampled by: JK + PR

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-112

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total ~~MTCA Metals~~ ICP	TCLP Metals	HEM (oil and grease) 1664	TOC/BOD	NITRATE/NITRITE	DISS GASES*	AMMONIA	% Moisture
1	FL358-03 MW7-231207	12/1/23	1215	W	10					X	X									X			X	X	X	X	
2	MW12-231207		1315																								
3	MW13-231207		1535																								
4	MW14-231207		1420																								
5	TB1-231207	—	—																								
6	FB1-231207	12/1/23	1600	W	3						X																

	Signature	Company	Date	Time
Relinquished		GEI	12/1/23	1705
Received		OSE	12/1/23	1705
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* METHANE, ETHANE, ACETYLENE, ETHENE PCE + BREAKDOWN ONLY

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 28, 2023

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2312-129

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on December 8, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

Case Narrative

Samples were collected on December 8, 2023 and received by the laboratory on December 8, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW5A-231208	12-129-01	Water	12-8-23	12-8-23	
FL358-MW5B-231208	12-129-02	Water	12-8-23	12-8-23	
FL358-MW6-231208	12-129-03	Water	12-8-23	12-8-23	
FL358-MW8-231208	12-129-04	Water	12-8-23	12-8-23	
FL358-MW9-231208	12-129-05	Water	12-8-23	12-8-23	
FL358-DUP-231208	12-129-06	Water	12-8-23	12-8-23	
FL358-TB1-231208	12-129-07	Water	---	12-8-23	
FL358-RB1-231208	12-129-08	Water	12-8-23	12-8-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-231208**					
Laboratory ID:	12-129-01					
Vinyl Chloride	8.2	1.0	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	1.0	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	100	1.0	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	110	1.0	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	120	1.0	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*85*	*75-127*				
Toluene-d8	*89*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				
Client ID:	**FL358-MW5B-231208**					
Laboratory ID:	12-129-02					
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*75-127*				
Toluene-d8	*89*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				
Client ID:	**FL358-MW6-231208**					
Laboratory ID:	12-129-03					
Vinyl Chloride	ND	1.0	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	1.0	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	52	1.0	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	96	1.0	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	17	1.0	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*84*	*75-127*				
Toluene-d8	*89*	*80-127*				
4-Bromofluorobenzene	*105*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-231208**					
Laboratory ID:	12-129-04					
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*75-127*				
Toluene-d8	*89*	*80-127*				
4-Bromofluorobenzene	*105*	*78-125*				
Client ID:	**FL358-MW9-231208**					
Laboratory ID:	12-129-05					
Vinyl Chloride	0.61	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	12	0.20	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	1.6	0.20	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*84*	*75-127*				
Toluene-d8	*88*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**FL358-DUP-231208**					
Laboratory ID:	12-129-06					
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*75-127*				
Toluene-d8	*89*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-TB1-231208**					
Laboratory ID:	12-129-07					
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*75-127*				
Toluene-d8	*90*	*80-127*				
4-Bromofluorobenzene	*105*	*78-125*				
Client ID:	**FL358-RB1-231208**					
Laboratory ID:	12-129-08					
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*75-127*				
Toluene-d8	*89*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-231208**					
Laboratory ID:	12-129-01					
Iron	**860**	50	EPA 6010D	12-14-23	12-14-23	
Client ID:	**FL358-MW5B-231208**					
Laboratory ID:	12-129-02					
Iron	**800**	50	EPA 6010D	12-14-23	12-14-23	
Client ID:	**FL358-MW6-231208**					
Laboratory ID:	12-129-03					
Iron	**1200**	50	EPA 6010D	12-14-23	12-14-23	
Client ID:	**FL358-MW8-231208**					
Laboratory ID:	12-129-04					
Iron	**1200**	50	EPA 6010D	12-14-23	12-14-23	
Client ID:	**FL358-MW9-231208**					
Laboratory ID:	12-129-05					
Iron	**43000**	500	EPA 6010D	12-14-23	12-14-23	
Client ID:	**FL358-DUP-231208**					
Laboratory ID:	12-129-06					
Iron	**690**	50	EPA 6010D	12-14-23	12-14-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-231208**					
Laboratory ID:	12-129-01					
Nitrate	**ND**	0.050	EPA 353.2	12-11-23	12-11-23	
Client ID:	**FL358-MW5B-231208**					
Laboratory ID:	12-129-02					
Nitrate	**ND**	0.050	EPA 353.2	12-11-23	12-11-23	
Client ID:	**FL358-MW6-231208**					
Laboratory ID:	12-129-03					
Nitrate	**ND**	0.050	EPA 353.2	12-11-23	12-11-23	
Client ID:	**FL358-MW8-231208**					
Laboratory ID:	12-129-04					
Nitrate	**0.072**	0.050	EPA 353.2	12-11-23	12-11-23	
Client ID:	**FL358-MW9-231208**					
Laboratory ID:	12-129-05					
Nitrate	**0.20**	0.050	EPA 353.2	12-11-23	12-11-23	
Client ID:	**FL358-DUP-231208**					
Laboratory ID:	12-129-06					
Nitrate	**ND**	0.050	EPA 353.2	12-11-23	12-11-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-231208**					
Laboratory ID:	12-129-01					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	
Client ID:	**FL358-MW5B-231208**					
Laboratory ID:	12-129-02					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	
Client ID:	**FL358-MW6-231208**					
Laboratory ID:	12-129-03					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	
Client ID:	**FL358-MW8-231208**					
Laboratory ID:	12-129-04					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	
Client ID:	**FL358-MW9-231208**					
Laboratory ID:	12-129-05					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	
Client ID:	**FL358-DUP-231208**					
Laboratory ID:	12-129-06					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	

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Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-231208**					
Laboratory ID:	12-129-01					
Ammonia	**0.077**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	
Client ID:	**FL358-MW5B-231208**					
Laboratory ID:	12-129-02					
Ammonia	**0.060**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	
Client ID:	**FL358-MW6-231208**					
Laboratory ID:	12-129-03					
Ammonia	**0.065**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	
Client ID:	**FL358-MW8-231208**					
Laboratory ID:	12-129-04					
Ammonia	**ND**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	
Client ID:	**FL358-MW9-231208**					
Laboratory ID:	12-129-05					
Ammonia	**1.7**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	
Client ID:	**FL358-DUP-231208**					
Laboratory ID:	12-129-06					
Ammonia	**ND**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-231208**					
Laboratory ID:	12-129-01					
Total Organic Carbon	**7.1**	1.0	SM 5310B	12-18-23	12-18-23	
Client ID:	**FL358-MW5B-231208**					
Laboratory ID:	12-129-02					
Total Organic Carbon	**4.0**	1.0	SM 5310B	12-18-23	12-18-23	
Client ID:	**FL358-MW6-231208**					
Laboratory ID:	12-129-03					
Total Organic Carbon	**4.7**	1.0	SM 5310B	12-18-23	12-18-23	
Client ID:	**FL358-MW8-231208**					
Laboratory ID:	12-129-04					
Total Organic Carbon	**3.1**	1.0	SM 5310B	12-18-23	12-18-23	
Client ID:	**FL358-MW9-231208**					
Laboratory ID:	12-129-05					
Total Organic Carbon	**11**	1.0	SM 5310B	12-18-23	12-18-23	
Client ID:	**FL358-DUP-231208**					
Laboratory ID:	12-129-06					
Total Organic Carbon	**3.8**	1.0	SM 5310B	12-18-23	12-18-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-231208**					
Laboratory ID:	12-129-01					
Methane	**710**	5.5	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**0.58**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*120*	*50-150*				
Client ID:	**FL358-MW5B-231208**					
Laboratory ID:	12-129-02					
Methane	**430**	3.3	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*108*	*50-150*				
Client ID:	**FL358-MW6-231208**					
Laboratory ID:	12-129-03					
Methane	**450**	3.3	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*105*	*50-150*				
Client ID:	**FL358-MW8-231208**					
Laboratory ID:	12-129-04					
Methane	**170**	1.1	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*122*	*50-150*				

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Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-231208**					
Laboratory ID:	12-129-05					
Methane	**3600**	28	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*108*	*50-150*				
Client ID:	**FL358-DUP-231208**					
Laboratory ID:	12-129-06					
Methane	**490**	3.3	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*115*	*50-150*				

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Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1212W1					
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-23	12-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Trichloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-23	12-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-127*				
Toluene-d8	*91*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1212W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.33**	**8.90**	10.0	10.0	93	89	71-135	5	20	
1,1-Dichloroethene	**9.40**	**9.33**	10.0	10.0	94	93	78-125	1	19	
(trans) 1,2-Dichloroethene	**9.52**	**9.48**	10.0	10.0	95	95	80-125	0	17	
(cis) 1,2-Dichloroethene	**9.82**	**9.99**	10.0	10.0	98	100	80-129	2	17	
Trichloroethene	**10.1**	**10.1**	10.0	10.0	101	101	80-122	0	18	
Tetrachloroethene	**11.1**	**11.1**	10.0	10.0	111	111	80-124	0	18	
Surrogate:										
Dibromofluoromethane					*94*	*94*	*75-127*			
Toluene-d8					*92*	*89*	*80-127*			
4-Bromofluorobenzene					*105*	*105*	*78-125*			

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Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214WH1					
Iron	**ND**	50	EPA 6010D	12-14-23	12-14-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-053-04										
	ORIG	DUP									
Iron	**946**	**867**	NA	NA		NA		NA	9	20	
MATRIX SPIKES											
Laboratory ID:	12-053-04										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**20400**	**20800**	20000	20000	946	**97**	**99**	75-125	2	20	

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Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1211W1					
Nitrate	**ND**	0.050	EPA 353.2	12-11-23	12-11-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-112-01								
	ORIG	DUP							
Nitrate	**0.324**	**0.301**	NA	NA	NA	NA	7	19	
MATRIX SPIKE									
Laboratory ID:	12-112-01								
	MS		MS		MS				
Nitrate	**2.21**		2.00	0.324	94	85-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1211W1								
	SB		SB		SB				
Nitrate	**2.09**		2.00	NA	105	87-118	NA	NA	

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Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
Nitrite	**ND**	0.020	EPA 353.2	12-8-23	12-8-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-112-04							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	12-112-04							
	MS	MS		MS				
Nitrite	**0.223**	0.250	ND	89	85-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1208W1							
	SB	SB		SB				
Nitrite	**0.257**	0.250	NA	103	89-118	NA	NA	

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Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-112-01								
	ORIG	DUP							
Ammonia	**3.72**	**4.05**	NA	NA	NA	NA	8	27	
MATRIX SPIKE									
Laboratory ID:	12-112-01								
	MS		MS		MS				
Ammonia	**9.05**		5.00	3.72	107	78-118	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1227W1								
	SB		SB		SB				
Ammonia	**5.12**		5.00	NA	102	85-114	NA	NA	

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Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1218W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	12-18-23	12-18-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-062-03								
	ORIG	DUP							
Total Organic Carbon	**ND**	**ND**	NA	NA	NA	NA	NA	13	
MATRIX SPIKE									
Laboratory ID:	12-062-03								
	MS		MS		MS				
Total Organic Carbon	**10.3**		10.0	ND	103	86-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1218W1								
	SB		SB		SB				
Total Organic Carbon	**9.59**		10.0	NA	96	90-122	NA	NA	

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Date of Report: December 28, 2023
Samples Submitted: December 8, 2023
Laboratory Reference: 2312-129
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
Methane	**ND**	0.55	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*108*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB1214W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**46.7**	**44.2**	44.2	44.2	106	100	75-125	6	25	
Ethane	**87.1**	**82.7**	83.2	83.2	105	99	75-125	5	25	
Ethene	**77.9**	**73.0**	77.7	77.7	100	94	75-125	6	25	
Acetylene	**57.2**	**53.8**	72.0	72.0	79	75	60-140	6	25	
Surrogate:										
1-Butene					*102*	*94*	*50-150*			

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Dec 26 2023
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
FL358-MW5A-231208	Water	23-A021290	DEM
FL358-MW5B-231208	Water	23-A021291	DEM
FL358-MW6-231208	Water	23-A021292	DEM
FL358-MW8-231208	Water	23-A021293	DEM
FL358-MW9-231208	Water	23-A021294	DEM
FL358-DUP-231208	Water	23-A021295	DEM

Your samples were received on Friday, December 8, 2023. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

Aaron Young
Vice President

Project #: 4082-039-03
SDG #: 2332530

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
SDG Number: 2332530
Project #: 4082-039-03
All results reported on an as received basis.

Date Received: 12/08/23
Date Reported: 12/26/23

AMTEST Identification Number **23-A021290**
Client Identification **FL358-MW5A-231208**
Sampling Date **12/08/23, 12:45**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	4.4	mg/l		2	SM 5210B	JM	12/08/23

AMTEST Identification Number **23-A021291**
Client Identification **FL358-MW5B-231208**
Sampling Date **12/08/23, 11:35**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	2.1	mg/l		2	SM 5210B	JM	12/08/23

AMTEST Identification Number **23-A021292**
Client Identification **FL358-MW6-231208**
Sampling Date **12/08/23, 12:50**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	JM	12/08/23

AMTEST Identification Number **23-A021293**
Client Identification **FL358-MW8-231208**
Sampling Date **12/08/23, 10:15**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	< 2	mg/l		2	SM 5210B	JM	12/08/23

AMTEST Identification Number **23-A021294**
Client Identification **FL358-MW9-231208**
Sampling Date **12/08/23, 11:10**

Demand

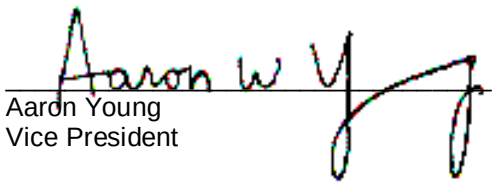
PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	7.5	mg/l	P	2	SM 5210B	JM	12/08/23

AMTEST Identification Number **23-A021295**
Client Identification **FL358-DUP-231208**
Sampling Date **12/08/23, 06:00**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	2.1	mg/l		2	SM 5210B	JM	12/08/23

P = Oxygen depletion exceeded method specification. Sample was diluted.



Aaron Young
Vice President

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample numbers: 23-A021290 to 23-A021295

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
23-A021231	BOD	mg/l	44.	43.	2.3

BLANKS

ANALYTE	UNITS	RESULT
BOD	mg/l	< 2

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 12-129

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other:

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
21290	FL358-MW5A-231208	12/8/23	12:45	W	1	BOD 5
21291	FL358-MW5B-231208	12/8/23	11:35	W	1	BOD 5
21292	FL358-MW6-231208	12/8/23	12:50	W	1	BOD 5
21293	FL358-MW8-231208	12/8/23	10:15	W	1	BOD 5
21294	FL358-MW9-231208	12/8/23	11:10	W	1	BOD 5
21295	FL358-DUP-231208	12/8/23	6:00	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by: KH	OSE	12/8/23	3:00 pm	T=5.3°C
Received by:	Amtest	12/8/23	1501	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: ST - FL358
Project Manager: Katy Aaltvurk
Sampled by: Meredith Bush

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-129

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FL358-MW5A-231208	12/8/23	1245	W	10
2	FL358-MW5B-231208		1135		10
3	FL358-MW6-231208		1250		10
4	FL358-MW8-231208		1015		10
5	FL358-MW9-231208		1110		10
6	FL358-DUP-231208		0000		10
7	FL358-TB1-231208		—	W	1
8	FL358-RB1-231208	12/8/23	1255	W	3

Analysis	1	2	3	4	5	6	7	8
NWTPH-HCID								
NWTPH-Gx/BTEX (8021☐ 8260☐)								
NWTPH-Gx								
NWTPH-Dx (Acid / SG Clean-up☐)								
Volatiles 8260								
Halogenated Volatiles 8260	X							
EDB EPA 8011 (Waters Only)								
Semivolatiles 8270/SIM (with low-level PAHs)								
PAHs 8270/SIM (low-level)								
PCBs 8082								
Organochlorine Pesticides 8081								
Organophosphorus Pesticides 8270/SIM								
Chlorinated Acid Herbicides 8151								
Total RCRA Metals								
Total ~~MTCA~~ Metals 12	X							
TCLP Metals								
HEM (oil and grease) 1664								
NITRATE/NITRITE	X							
AMMONIA	X							
TOC/BOD	X							
DISS GASES (1)	X							
% Moisture								

	Signature	Company	Date	Time
Relinquished		GEI	12/8/23	1400
Received		OSE	12/8/23	1400
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
(1) METHANE, ~~ETHANE~~, ACETYLENE, ETHENE
(2) RCE + BREAKDOWN ONLY

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 28, 2023

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2312-138

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on December 11, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

Case Narrative

Samples were collected on December 11, 2023 and received by the laboratory on December 11, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW10-231211	12-138-01	Water	12-11-23	12-11-23	
FL358-MW11-231211	12-138-02	Water	12-11-23	12-11-23	
FL358-RB1-231211	12-138-03	Water	12-11-23	12-11-23	
FL358-TB1-231211	12-138-04	Water	---	12-11-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW10-231211**					
Laboratory ID:	12-138-01					
Vinyl Chloride	ND	0.20	EPA 8260D	12-14-23	12-14-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
(cis) 1,2-Dichloroethene	0.44	0.20	EPA 8260D	12-14-23	12-14-23	
Trichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**FL358-MW11-231211**					
Laboratory ID:	12-138-02					
Vinyl Chloride	5.1	0.20	EPA 8260D	12-14-23	12-14-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
(cis) 1,2-Dichloroethene	4.9	0.20	EPA 8260D	12-14-23	12-14-23	
Trichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				
Client ID:	**FL358-RB1-231211**					
Laboratory ID:	12-138-03					
Vinyl Chloride	ND	0.20	EPA 8260D	12-14-23	12-14-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Trichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-TB1-231211**					
Laboratory ID:	12-138-04					
Vinyl Chloride	ND	0.20	EPA 8260D	12-14-23	12-14-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Trichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*83*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW10-231211**					
Laboratory ID:	12-138-01					
Iron	**49000**	500	EPA 6010D	12-14-23	12-14-23	
Client ID:	**FL358-MW11-231211**					
Laboratory ID:	12-138-02					
Iron	**35000**	500	EPA 6010D	12-14-23	12-14-23	

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW10-231211**					
Laboratory ID:	12-138-01					
Total Organic Carbon	**17**	1.0	SM 5310B	12-18-23	12-18-23	
Client ID:	**FL358-MW11-231211**					
Laboratory ID:	12-138-02					
Total Organic Carbon	**21**	1.0	SM 5310B	12-18-23	12-18-23	

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW10-231211**					
Laboratory ID:	12-138-01					
Nitrate	**0.25**	0.050	EPA 353.2	12-12-23	12-12-23	
Client ID:	**FL358-MW11-231211**					
Laboratory ID:	12-138-02					
Nitrate	**0.78**	0.050	EPA 353.2	12-12-23	12-12-23	

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW10-231211**					
Laboratory ID:	12-138-01					
Nitrite	**ND**	0.020	EPA 353.2	12-12-23	12-12-23	
Client ID:	**FL358-MW11-231211**					
Laboratory ID:	12-138-02					
Nitrite	**ND**	0.020	EPA 353.2	12-12-23	12-12-23	

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW10-231211**					
Laboratory ID:	12-138-01					
Ammonia	**1.5**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	
Client ID:	**FL358-MW11-231211**					
Laboratory ID:	12-138-02					
Ammonia	**3.8**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW10-231211**					
Laboratory ID:	12-138-01					
Methane	**3000**	55	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*79*	*50-150*				
Client ID:	**FL358-MW11-231211**					
Laboratory ID:	12-138-02					
Methane	**3000**	28	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*91*	*50-150*				

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
Vinyl Chloride	ND	0.20	EPA 8260D	12-14-23	12-14-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Trichloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1214W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.9**	**10.9**	10.0	10.0	109	109	71-135	0	20	
1,1-Dichloroethene	**10.3**	**10.4**	10.0	10.0	103	104	78-125	1	19	
(trans) 1,2-Dichloroethene	**10.3**	**10.4**	10.0	10.0	103	104	80-125	1	17	
(cis) 1,2-Dichloroethene	**10.2**	**10.4**	10.0	10.0	102	104	80-129	2	17	
Trichloroethene	**10.2**	**10.3**	10.0	10.0	102	103	80-122	1	18	
Tetrachloroethene	**10.8**	**11.0**	10.0	10.0	108	110	80-124	2	18	
Surrogate:										
Dibromofluoromethane					*100*	*105*	*75-127*			
Toluene-d8					*100*	*101*	*80-127*			
4-Bromofluorobenzene					*100*	*104*	*78-125*			

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214WH1					
Iron	**ND**	50	EPA 6010D	12-14-23	12-14-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-053-04										
	ORIG	DUP									
Iron	**946**	**867**	NA	NA		NA		NA	9	20	
MATRIX SPIKES											
Laboratory ID:	12-053-04										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**20400**	**20800**	20000	20000	946	**97**	**99**	75-125	2	20	

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1218W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	12-18-23	12-18-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-062-03								
	ORIG	DUP							
Total Organic Carbon	**ND**	**ND**	NA	NA	NA	NA	NA	13	
MATRIX SPIKE									
Laboratory ID:	12-062-03								
	MS		MS		MS				
Total Organic Carbon	**10.3**		10.0	ND	103	86-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1218W1								
	SB		SB		SB				
Total Organic Carbon	**9.59**		10.0	NA	96	90-122	NA	NA	

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Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1212W1					
Nitrate	**ND**	0.050	EPA 353.2	12-12-23	12-12-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-138-01								
	ORIG	DUP							
Nitrate	**0.250**	**0.253**	NA	NA	NA	NA	1	19	
MATRIX SPIKE									
Laboratory ID:	12-138-01								
	MS		MS		MS				
Nitrate	**1.98**		2.00	0.250	87	85-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1212W1								
	SB		SB		SB				
Nitrate	**1.91**		2.00	NA	96	87-118	NA	NA	

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Laboratory Reference: 2312-138
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1212W1					
Nitrite	**ND**	0.020	EPA 353.2	12-12-23	12-12-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-138-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	12-138-01							
	MS	MS		MS				
Nitrite	**0.237**	0.250	ND	95	85-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1212W1							
	SB	SB		SB				
Nitrite	**0.228**	0.250	NA	91	89-118	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	12-27-23	12-27-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-112-01								
	ORIG	DUP							
Ammonia	**3.72**	**4.05**	NA	NA	NA	NA	8	27	
MATRIX SPIKE									
Laboratory ID:	12-112-01								
	MS		MS		MS				
Ammonia	**9.05**		5.00	3.72	107	78-118	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1227W1								
	SB		SB		SB				
Ammonia	**5.12**		5.00	NA	102	85-114	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2023
Samples Submitted: December 11, 2023
Laboratory Reference: 2312-138
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
Methane	**ND**	0.55	RSK 175	12-14-23	12-14-23	
Ethane	**ND**	0.56	RSK 175	12-14-23	12-14-23	
Ethene	**ND**	0.58	RSK 175	12-14-23	12-14-23	
Acetylene	**ND**	3.1	RSK 175	12-14-23	12-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*108*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB1214W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**46.7**	**44.2**	44.2	44.2	106	100	75-125	6	25	
Ethane	**87.1**	**82.7**	83.2	83.2	105	99	75-125	5	25	
Ethene	**77.9**	**73.0**	77.7	77.7	100	94	75-125	6	25	
Acetylene	**57.2**	**53.8**	72.0	72.0	79	75	60-140	6	25	
Surrogate:										
1-Butene					*102*	*94*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Dec 26 2023
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
FL358-MW10-231211	Water	23-A021387	DEM
FL358-MW11-231211	Water	23-A021388	DEM

Your samples were received on Monday, December 11, 2023. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

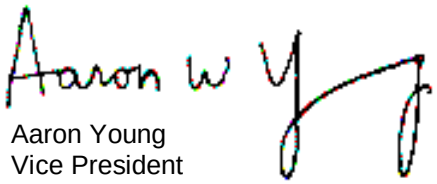
The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,



Aaron Young
Vice President

Project #: 4082-039-03
SDG #: 2332550

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
SDG Number: 2332550
Project #: 4082-039-03
All results reported on an as received basis.

Date Received: 12/11/23
Date Reported: 12/26/23

AMTEST Identification Number **23-A021387**
Client Identification **FL358-MW10-231211**
Sampling Date **12/11/23, 13:15**

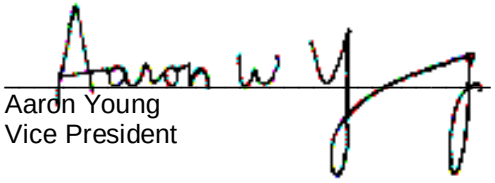
Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	14.	mg/l		2	SM 5210B	JM	12/13/23

AMTEST Identification Number **23-A021388**
Client Identification **FL358-MW11-231211**
Sampling Date **12/11/23, 11:35**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	14.	mg/l		2	SM 5210B	JM	12/13/23



Aaron Young
Vice President

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample numbers: 23-A021387 to 23-A021388

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
23-A021522	BOD	mg/l	8.3	7.7	7.5

BLANKS

ANALYTE	UNITS	RESULT
BOD	mg/l	< 2

10.0°C

P.4

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 12-138

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other:

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
21357	FL358-MW10-231211	12/11/23	13:15	W	1	BOD5
21358	FL358-MW11-231211	12/11/23	11:35	W	1	BOD5

	Company	Date	Time	Comments/Special Instructions
Relinquished by: Katelyn Pickard	OSE	12/11/23	1540	EDDs
Received by: Sandra Hutchison	Amtest	12/11/23	3:40	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 12-138

Company:	GeoEngineers
Project Number:	4082-039-03
Project Name:	Federal Way Link Ext. FL358
Project Manager:	Katy Atakturk
Sampled by:	Paul Robinette

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☑ Standard (7 Days)
- ☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C (2)	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	~~TCLP Metals~~ IRON Total	HEM (oil and grease) 1664A	~~HOLD~~ TOC/BOD	NITRATE/NITRITE	Ammonia	DISS Gases (1)	% Moisture
1	FL358-MW10-231211	12/11/23	1315	W	10						X										X		X	X	X	X	
2	FL358-MW11-231211	12/11/23	1135	W	10						X										X		X	X	X	X	
3	FL358-RB1-231211	12/11/23	1325	W	3						X																
4	FL358-TB1-231211	12/11/23	—	W	1						X																

	Signature	Company	Date	Time
Relinquished		GEL	12/11/23	1454
Received		OS	12/11/23	1454
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

(1) METHANE, ETHENE, ACETYLENE, ETHANE

(2) PCE + Breakdown only

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 28, 2024

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2403-287

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on March 20, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

Case Narrative

Samples were collected on March 19, 2024 and received by the laboratory on March 20, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW7-240319	03-287-01	Water	3-19-24	3-20-24	
FL358-MW8-240319	03-287-02	Water	3-19-24	3-20-24	
FL358-MW12-240319	03-287-03	Water	3-19-24	3-20-24	
FL358-MW13-240319	03-287-04	Water	3-19-24	3-20-24	
FL358-RB-1-240319	03-287-05	Water	3-19-24	3-20-24	
FL358-TB-1-240319	03-287-06	Water	---	3-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240319**					
Laboratory ID:	03-287-01					
Vinyl Chloride	2.1	2.0	EPA 8260D	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**FL358-MW8-240319**					
Laboratory ID:	03-287-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*75-127*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**FL358-MW12-240319**					
Laboratory ID:	03-287-03					
Vinyl Chloride (SIM)	0.61	0.20	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-240319**					
Laboratory ID:	03-287-04					
Vinyl Chloride (SIM)	0.24	0.20	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	3.2	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	4.4	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**FL358-RB-1-240319**					
Laboratory ID:	03-287-05					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**FL358-TB-1-240319**					
Laboratory ID:	03-287-06					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240319**					
Laboratory ID:	03-287-01					
Methane	**1500**	28	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*111*	*50-150*				
Client ID:	**FL358-MW8-240319**					
Laboratory ID:	03-287-02					
Methane	**320**	3.3	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*96*	*50-150*				
Client ID:	**FL358-MW12-240319**					
Laboratory ID:	03-287-03					
Methane	**2700**	28	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*94*	*50-150*				
Client ID:	**FL358-MW13-240319**					
Laboratory ID:	03-287-04					
Methane	**250**	3.3	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*98*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240319**					
Laboratory ID:	03-287-01					
Total Organic Carbon	**21**	1.0	SM 5310B	3-20-24	3-20-24	
Client ID:	**FL358-MW8-240319**					
Laboratory ID:	03-287-02					
Total Organic Carbon	**4.9**	1.0	SM 5310B	3-20-24	3-20-24	
Client ID:	**FL358-MW12-240319**					
Laboratory ID:	03-287-03					
Total Organic Carbon	**28**	1.0	SM 5310B	3-20-24	3-20-24	
Client ID:	**FL358-MW13-240319**					
Laboratory ID:	03-287-04					
Total Organic Carbon	**11**	1.0	SM 5310B	3-20-24	3-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240319**					
Laboratory ID:	03-287-01					
Ammonia	**1.6**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	
Client ID:	**FL358-MW8-240319**					
Laboratory ID:	03-287-02					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	
Client ID:	**FL358-MW12-240319**					
Laboratory ID:	03-287-03					
Ammonia	**3.1**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	
Client ID:	**FL358-MW13-240319**					
Laboratory ID:	03-287-04					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	

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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240319**					
Laboratory ID:	03-287-01					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	
Client ID:	**FL358-MW8-240319**					
Laboratory ID:	03-287-02					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	
Client ID:	**FL358-MW12-240319**					
Laboratory ID:	03-287-03					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	
Client ID:	**FL358-MW13-240319**					
Laboratory ID:	03-287-04					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	

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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240319**					
Laboratory ID:	03-287-01					
Nitrite	**ND**	0.020	EPA 353.2	3-20-24	3-20-24	
Client ID:	**FL358-MW8-240319**					
Laboratory ID:	03-287-02					
Nitrite	**ND**	0.020	EPA 353.2	3-20-24	3-20-24	
Client ID:	**FL358-MW12-240319**					
Laboratory ID:	03-287-03					
Nitrite	**ND**	0.020	EPA 353.2	3-20-24	3-20-24	
Client ID:	**FL358-MW13-240319**					
Laboratory ID:	03-287-04					
Nitrite	**ND**	0.020	EPA 353.2	3-20-24	3-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240319**					
Laboratory ID:	03-287-01					
Iron	**31000**	500	EPA 6010D	3-27-24	3-27-24	
Client ID:	**FL358-MW8-240319**					
Laboratory ID:	03-287-02					
Iron	**730**	50	EPA 6010D	3-27-24	3-27-24	
Client ID:	**FL358-MW12-240319**					
Laboratory ID:	03-287-03					
Iron	**65000**	500	EPA 6010D	3-27-24	3-27-24	
Client ID:	**FL358-MW13-240319**					
Laboratory ID:	03-287-04					
Iron	**5300**	50	EPA 6010D	3-27-24	3-27-24	

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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240319**					
Laboratory ID:	03-287-01					
Sulfate	**70**	25	ASTM D516-11	3-25-24	3-25-24	
Client ID:	**FL358-MW8-240319**					
Laboratory ID:	03-287-02					
Sulfate	**8.6**	5.0	ASTM D516-11	3-25-24	3-25-24	
Client ID:	**FL358-MW12-240319**					
Laboratory ID:	03-287-03					
Sulfate	**ND**	5.0	ASTM D516-11	3-25-24	3-25-24	
Client ID:	**FL358-MW13-240319**					
Laboratory ID:	03-287-04					
Sulfate	**ND**	5.0	ASTM D516-11	3-25-24	3-25-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0322W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**11.0**	**11.1**	10.0	10.0	110	111	71-135	1	20	
1,1-Dichloroethene	**10.8**	**11.0**	10.0	10.0	108	110	78-125	2	19	
(trans) 1,2-Dichloroethene	**10.7**	**10.8**	10.0	10.0	107	108	80-125	1	17	
(cis) 1,2-Dichloroethene	**10.6**	**10.9**	10.0	10.0	106	109	80-129	3	17	
Trichloroethene	**10.8**	**11.3**	10.0	10.0	108	113	80-122	5	18	
Tetrachloroethene	**10.8**	**11.7**	10.0	10.0	108	117	80-124	8	18	
Surrogate:										
Dibromofluoromethane					*98*	*95*	*75-127*			
Toluene-d8					*98*	*98*	*80-127*			
4-Bromofluorobenzene					*102*	*101*	*78-125*			

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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0326W1					
Methane	**ND**	0.55	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*122*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0326W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**46.8**	**48.5**	44.2	44.2	106	110	75-125	4	25	
Ethane	**87.7**	**93.4**	83.2	83.2	105	112	75-125	6	25	
Ethene	**81.1**	**92.8**	77.7	77.7	104	119	75-125	13	25	
Acetylene	**58.0**	**61.2**	72.0	72.0	81	85	60-140	5	25	
Surrogate:										
1-Butene					*107*	*125*	*50-150*			

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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0320W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	3-20-24	3-20-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-265-01							
	ORIG DUP							
Total Organic Carbon	**17.5** **17.33**	NA	NA	NA	NA	1	13	
MATRIX SPIKE								
Laboratory ID:	03-265-01							
	MS	MS		MS				
Total Organic Carbon	**27.9**	10.0	17.5	104	86-127	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0320W1							
	SB	SB		SB				
Total Organic Carbon	**11.7**	10.0	NA	117	90-122	NA	NA	

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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-287-01								
	ORIG	DUP							
Ammonia	**1.57**	**1.60**	NA	NA	NA	NA	2	27	
MATRIX SPIKE									
Laboratory ID:	03-287-01								
	MS		MS		MS				
Ammonia	**6.46**		5.00	1.57	98	78-118	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0327W1								
	SB		SB		SB				
Ammonia	**4.77**		5.00	NA	95	85-114	NA	NA	

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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-308-01							
	ORIG DUP							
Nitrate	**ND** **ND**	NA	NA	NA	NA	NA	19	
MATRIX SPIKE								
Laboratory ID:	03-308-01							
	MS	MS		MS				
Nitrate	**2.15**	2.00	ND	108	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0322W1							
	SB	SB		SB				
Nitrate	**1.88**	2.00	NA	94	87-118	NA	NA	

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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0320W1					
Nitrite	**ND**	0.020	EPA 353.2	3-20-24	3-20-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-287-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	03-287-01							
	MS	MS		MS				
Nitrite	**0.256**	0.250	ND	102	85-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0320W1							
	SB	SB		SB				
Nitrite	**0.252**	0.250	NA	101	89-118	NA	NA	

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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327WH1					
Iron	**ND**	50	EPA 6010D	3-27-24	3-27-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-359-05										
	ORIG	DUP									
Iron	**854**	**859**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	03-359-05										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22000**	**21700**	20000	20000	854	**106**	**104**	75-125	1	20	

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Date of Report: March 28, 2024
Samples Submitted: March 20, 2024
Laboratory Reference: 2403-287
Project: 4082-039-03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325W1					
Sulfate	**ND**	5.0	ASTM D516-11	3-25-24	3-25-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-287-02								
	ORIG	DUP							
Sulfate	**8.63**	**8.64**	NA	NA	NA	NA	0	10	
MATRIX SPIKE									
Laboratory ID:	03-287-02								
	MS		MS		MS				
Sulfate	**17.8**		10.0	8.63	92	73-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0324W1								
	SB		SB		SB				
Sulfate	**8.98**		10.0	NA	90	85-114	NA	NA	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Mar 28 2024
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
FL358-MW7-240319	Water	24-A005733	DEM
FL358-MW8-240319	Water	24-A005734	DEM
FL358-MW12-240319	Water	24-A005735	DEM
FL358-MW13-240319	Water	24-A005736	DEM

Your samples were received on Wednesday, March 20, 2024. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

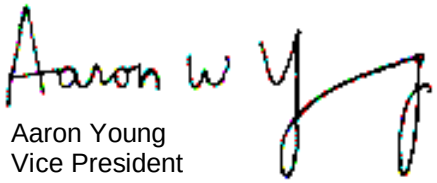
The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,



Aaron Young
Vice President

Project #: 4082-039-03
SDG #: 2434010

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
SDG Number: 2434010
Project #: 4082-039-03
All results reported on an as received basis.

Date Received: 03/20/24
Date Reported: 3/28/24

AMTEST Identification Number **24-A005733**
Client Identification **FL358-MW7-240319**
Sampling Date **03/19/24, 14:15**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	13.	mg/l	P	2	SM 5210B	JM	03/21/24

AMTEST Identification Number **24-A005734**
Client Identification **FL358-MW8-240319**
Sampling Date **03/19/24, 11:45**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	3.3	mg/l		2	SM 5210B	JM	03/21/24

AMTEST Identification Number **24-A005735**
Client Identification **FL358-MW12-240319**
Sampling Date **03/19/24, 14:45**

Demand

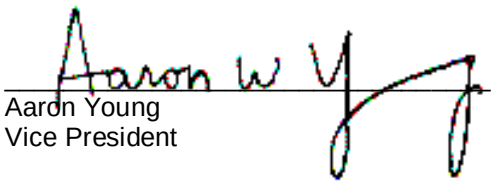
PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	13.	mg/l		2	SM 5210B	JM	03/21/24

AMTEST Identification Number **24-A005736**
Client Identification **FL358-MW13-240319**
Sampling Date **03/19/24, 10:15**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	3.4	mg/l		2	SM 5210B	JM	03/21/24

P = Oxygen depletion exceeded method specification. Sample was diluted.



Aaron Young
Vice President

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample numbers: 24-A005733 to 24-A005736

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
24-A005734	BOD	mg/l	3.3	3.2	3.1

BLANKS

ANALYTE	UNITS	RESULT
BOD	mg/l	< 2

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 03-287

Laboratory: AmTest Laboratories

Turnaround Request

Project Manager: David Baumeister

Attention: Aaron Young

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

13600 NE 126th Pl Kirkland, WA 98034

Standard

Project Number: 4082-039-03

Phone Number: (425) 885-1664

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
5733	FL358-MW7-240319	3/19/24	1415	W	1	BOD 5
5734	FL358-MW8-240319	3/19/24	1145	W	1	BOD 5
5735	FL358-MW12-240319	3/19/24	1445	W	1	BOD 5
5736	FL358-MW13-240319	3/19/24	1015	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by: KARL HORNYIK	OSE	3.20	3:32	
Received by: LF	AmTest	3/20/24	1532	8.0°C EDDs
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc
David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: FL358
Work Order Number: 2403350

March 22, 2024

Attention David Baumeister:

Fremont Analytical, Inc. received 2 sample(s) on 3/20/2024 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *03/22/2024*

CLIENT: OnSite Environmental Inc
Project: FL358
Work Order: 2403350

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2403350-001	FL358-MW12-240319	03/19/2024 2:45 PM	03/20/2024 10:23 AM
2403350-002	FL358-MW7-240319	03/19/2024 2:15 PM	03/20/2024 10:23 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **2403350**
Date: **3/22/2024**

CLIENT: OnSite Environmental Inc
Project: FL358

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **2403350**
Date Reported: **3/22/2024**

CLIENT: OnSite Environmental Inc
Project: FL358

Lab ID: 2403350-001 **Collection Date:** 3/19/2024 2:45:00 PM
Client Sample ID: **FL358-MW12-240319** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R90354		Analyst: FG
Ferrous Iron	67.2	15.0	D	mg/L	100	3/20/2024 10:15:42 AM

Lab ID: 2403350-002 **Collection Date:** 3/19/2024 2:15:00 PM
Client Sample ID: **FL358-MW7-240319** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R90354		Analyst: FG
Ferrous Iron	31.5	3.75	D	mg/L	25	3/20/2024 10:15:42 AM

Work Order: 2403350
CLIENT: OnSite Environmental Inc
Project: FL358

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **MB-R90354**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **3/20/2024**	RunNo: **90354**
Client ID: **MBLKW**	Batch ID: **R90354**		Analysis Date: **3/20/2024**	SeqNo: **1884676**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.150									

Sample ID: **LCS-R90354**	SampType: **LCS**	Units: **mg/L**	Prep Date: **3/20/2024**	RunNo: **90354**
Client ID: **LCSW**	Batch ID: **R90354**		Analysis Date: **3/20/2024**	SeqNo: **1884677**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.398	0.150	0.4000	0	99.4	85	115				

Sample ID: **2403236-003ADUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **3/20/2024**	RunNo: **90354**
Client ID: **BATCH**	Batch ID: **R90354**		Analysis Date: **3/20/2024**	SeqNo: **1884679**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	2.23	0.750						1.856	18.4	20	DH

Sample ID: **2403236-003AMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **3/20/2024**	RunNo: **90354**
Client ID: **BATCH**	Batch ID: **R90354**		Analysis Date: **3/20/2024**	SeqNo: **1884680**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	4.26	0.750	2.000	1.856	120	70	130				DH

Sample ID: **2403236-003AMSD**	SampType: **MSD**	Units: **mg/L**	Prep Date: **3/20/2024**	RunNo: **90354**
Client ID: **BATCH**	Batch ID: **R90354**		Analysis Date: **3/20/2024**	SeqNo: **1884681**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	4.01	0.750	2.000	1.856	108	70	130	4.258	5.92	30	DH

Sample Log-In Check List

Client Name:	ONSITE	Work Order Number:	2403350
Logged by:	Clare Griggs	Date Received:	3/20/2024 10:23:00 AM

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Courier		

Log In

3.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
4.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5.	Were all items received at a temperature of >2°C to 6°C *	Yes ☑	No ☐	NA ☐
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp ºC
Sample	5.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Chain of Custody

2403350

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 0492-039-03
Project Name: FL358
Project Manager: Katy Hakkarinen & Tricia DeOmo
Sampled by: PDK & KT

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ferrous Iron (SM3500-Fe)				% Moisture
	FL358-MW12-240319	3/19/24	1445	GW	1																		X				
	FL358-MW7-240319	3/19/24	1415	GW	1																		X				

	Signature	Company	Date	Time
Relinquished	[signature]	GeoEngineers	3/20/24	830
Received	Van	Spdy	3/20/24	830
Relinquished	Van	Spdy	3/20/24	1020
Received	[signature]	FAI	3/20/24	1023
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: Katy Atakturk and Tricia DeOme
Sampled by: Paul Robinette and Kathryn Josten

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 03-287

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW7-240319	3/19/24	1415	W	11																		X	X	X	X	
2	FL358-MW8-240319	3/19/24	1145	W	11																		X		X	X	
3	FL358-MW12-240319	3/19/24	1445	W	11																		X	X	X	X	
4	FL358-MW13-240319	3/19/24	1015	W	11																		X		X	X	
	~~FL358-MW14-240319~~	~~3/19/24~~		~~W~~	11																		X		X	X	
	~~FL358-MW~~	~~3/ /24~~		~~W~~																			X		X	X	
5	FL358-RB-1-240319	3/19/24	1555	W	3																		X				
6	FL358-TB-1-240319	3/19/24	—	W	3																		X				

	Signature	Company	Date	Time
Relinquished		GEOENGINEERS	3/20/24	830
Received		SPL	3/20/24	830
Relinquished		SPL	3/20/24	1235
Received		OSE	3/20/24	1235
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE and breakdown products PCE, TCE, CIS, TRANS, DCE, VC, 1,1-DCE

Note 2: Project Dissolved Gasses include Ethane, Ethene, Methane, and Acetylene

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2), Total Fe (EPA 6010D), and BOD (SM521B), Sulfate

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 1, 2024

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2403-308

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

Case Narrative

Samples were collected on March 20, 2024 and received by the laboratory on March 21, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW5A-240320	03-308-01	Water	3-20-24	3-21-24	
FL358-MW5B-240320	03-308-02	Water	3-20-24	3-21-24	
FL358-MW6-240320	03-308-03	Water	3-20-24	3-21-24	
FL358-MW10-240320	03-308-04	Water	3-20-24	3-21-24	
FL358-MW14-240320	03-308-05	Water	3-20-24	3-21-24	
FL358-DUP-240320	03-308-06	Water	3-20-24	3-21-24	
FL358-RB-240320	03-308-07	Water	3-20-24	3-21-24	
FL358-TB-240320	03-308-08	Water	---	3-21-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240320**					
Laboratory ID:	03-308-01					
Vinyl Chloride	6.0	2.0	EPA 8260D	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	68	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	94	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	73	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*85*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				
Client ID:	**FL358-MW5B-240320**					
Laboratory ID:	03-308-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*77*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*90*	*78-125*				
Client ID:	**FL358-MW6-240320**					
Laboratory ID:	03-308-03					
Vinyl Chloride (SIM)	0.95	0.20	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	76	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	120	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	6.1	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*85*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW10-240320**					
Laboratory ID:	03-308-04					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				
Client ID:	**FL358-MW14-240320**					
Laboratory ID:	03-308-05					
Vinyl Chloride (SIM)	1.5	0.20	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	7.9	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*83*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*109*	*78-125*				
Client ID:	**FL358-DUP-240320**					
Laboratory ID:	03-308-06					
Vinyl Chloride (SIM)	0.98	0.20	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	77	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	130	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	7.4	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*83*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*93*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-RB-240320**					
Laboratory ID:	03-308-07					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**FL358-TB-240320**					
Laboratory ID:	03-308-08					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240320**					
Laboratory ID:	03-308-01					
Methane	**320**	3.3	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*106*	*50-150*				
Client ID:	**FL358-MW5B-240320**					
Laboratory ID:	03-308-02					
Methane	**560**	5.5	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**230**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*100*	*50-150*				
Client ID:	**FL358-MW6-240320**					
Laboratory ID:	03-308-03					
Methane	**750**	5.5	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*100*	*50-150*				
Client ID:	**FL358-MW10-240320**					
Laboratory ID:	03-308-04					
Methane	**4600**	55	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*90*	*50-150*				

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW14-240320**					
Laboratory ID:	03-308-05					
Methane	**630**	5.5	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*88*	*50-150*				
Client ID:	**FL358-DUP-240320**					
Laboratory ID:	03-308-06					
Methane	**830**	5.5	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*95*	*50-150*				

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240320**					
Laboratory ID:	03-308-01					
Total Organic Carbon	**8.8**	1.0	SM 5310B	3-27-24	3-27-24	
Client ID:	**FL358-MW5B-240320**					
Laboratory ID:	03-308-02					
Total Organic Carbon	**5.4**	1.0	SM 5310B	3-27-24	3-27-24	
Client ID:	**FL358-MW6-240320**					
Laboratory ID:	03-308-03					
Total Organic Carbon	**8.4**	1.0	SM 5310B	3-27-24	3-27-24	
Client ID:	**FL358-MW10-240320**					
Laboratory ID:	03-308-04					
Total Organic Carbon	**13**	1.0	SM 5310B	3-27-24	3-27-24	
Client ID:	**FL358-MW14-240320**					
Laboratory ID:	03-308-05					
Total Organic Carbon	**11**	1.0	SM 5310B	3-27-24	3-27-24	
Client ID:	**FL358-DUP-240320**					
Laboratory ID:	03-308-06					
Total Organic Carbon	**8.3**	1.0	SM 5310B	3-27-24	3-27-24	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240320**					
Laboratory ID:	03-308-01					
Ammonia	**0.060**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	
Client ID:	**FL358-MW5B-240320**					
Laboratory ID:	03-308-02					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	
Client ID:	**FL358-MW6-240320**					
Laboratory ID:	03-308-03					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	
Client ID:	**FL358-MW10-240320**					
Laboratory ID:	03-308-04					
Ammonia	**0.93**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	
Client ID:	**FL358-MW14-240320**					
Laboratory ID:	03-308-05					
Ammonia	**0.055**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	
Client ID:	**FL358-DUP-240320**					
Laboratory ID:	03-308-06					
Ammonia	**0.079**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240320**					
Laboratory ID:	03-308-01					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	
Client ID:	**FL358-MW5B-240320**					
Laboratory ID:	03-308-02					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	
Client ID:	**FL358-MW6-240320**					
Laboratory ID:	03-308-03					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	
Client ID:	**FL358-MW10-240320**					
Laboratory ID:	03-308-04					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	
Client ID:	**FL358-MW14-240320**					
Laboratory ID:	03-308-05					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	
Client ID:	**FL358-DUP-240320**					
Laboratory ID:	03-308-06					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240320**					
Laboratory ID:	03-308-01					
Nitrite	**ND**	0.020	EPA 353.2	3-21-24	3-21-24	
Client ID:	**FL358-MW5B-240320**					
Laboratory ID:	03-308-02					
Nitrite	**ND**	0.020	EPA 353.2	3-21-24	3-21-24	
Client ID:	**FL358-MW6-240320**					
Laboratory ID:	03-308-03					
Nitrite	**ND**	0.020	EPA 353.2	3-21-24	3-21-24	
Client ID:	**FL358-MW10-240320**					
Laboratory ID:	03-308-04					
Nitrite	**ND**	0.020	EPA 353.2	3-21-24	3-21-24	
Client ID:	**FL358-MW14-240320**					
Laboratory ID:	03-308-05					
Nitrite	**ND**	0.020	EPA 353.2	3-21-24	3-21-24	
Client ID:	**FL358-DUP-240320**					
Laboratory ID:	03-308-06					
Nitrite	**ND**	0.020	EPA 353.2	3-21-24	3-21-24	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240320**					
Laboratory ID:	03-308-01					
Iron	**1300**	50	EPA 6010D	3-27-24	3-27-24	
Client ID:	**FL358-MW5B-240320**					
Laboratory ID:	03-308-02					
Iron	**200**	50	EPA 6010D	3-27-24	3-27-24	
Client ID:	**FL358-MW6-240320**					
Laboratory ID:	03-308-03					
Iron	**740**	50	EPA 6010D	3-27-24	3-27-24	
Client ID:	**FL358-MW10-240320**					
Laboratory ID:	03-308-04					
Iron	**45000**	500	EPA 6010D	3-27-24	3-27-24	
Client ID:	**FL358-MW14-240320**					
Laboratory ID:	03-308-05					
Iron	**5700**	50	EPA 6010D	3-27-24	3-27-24	
Client ID:	**FL358-DUP-240320**					
Laboratory ID:	03-308-06					
Iron	**770**	50	EPA 6010D	3-27-24	3-27-24	

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Date of Report: April 1, 2024
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Laboratory Reference: 2403-308
Project: 4082-039-03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240320**					
Laboratory ID:	03-308-01					
Sulfate	**8.6**	5.0	ASTM D516-11	3-25-24	3-25-24	
Client ID:	**FL358-MW5B-240320**					
Laboratory ID:	03-308-02					
Sulfate	**11**	5.0	ASTM D516-11	3-25-24	3-25-24	
Client ID:	**FL358-MW6-240320**					
Laboratory ID:	03-308-03					
Sulfate	**6.5**	5.0	ASTM D516-11	3-25-24	3-25-24	
Client ID:	**FL358-MW10-240320**					
Laboratory ID:	03-308-04					
Sulfate	**12**	5.0	ASTM D516-11	3-25-24	3-25-24	
Client ID:	**FL358-MW14-240320**					
Laboratory ID:	03-308-05					
Sulfate	**8.5**	5.0	ASTM D516-11	3-25-24	3-25-24	
Client ID:	**FL358-DUP-240320**					
Laboratory ID:	03-308-06					
Sulfate	**6.6**	5.0	ASTM D516-11	3-25-24	3-25-24	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
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Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W2					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*95*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0322W2									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.51**	**9.34**	10.0	10.0	95	93	71-135	2	20	
1,1-Dichloroethene	**10.4**	**9.97**	10.0	10.0	104	100	78-125	4	19	
(trans) 1,2-Dichloroethene	**10.1**	**9.91**	10.0	10.0	101	99	80-125	2	17	
(cis) 1,2-Dichloroethene	**10.3**	**10.1**	10.0	10.0	103	101	80-129	2	17	
Trichloroethene	**11.4**	**11.1**	10.0	10.0	114	111	80-122	3	18	
Tetrachloroethene	**9.55**	**10.8**	10.0	10.0	96	108	80-124	12	18	
Surrogate:										
Dibromofluoromethane					*91*	*92*	*75-127*			
Toluene-d8					*99*	*99*	*80-127*			
4-Bromofluorobenzene					*102*	*99*	*78-125*			

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0326W1					
Methane	**ND**	0.55	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*122*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0326W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**46.8**	**48.5**	44.2	44.2	106	110	75-125	4	25	
Ethane	**87.7**	**93.4**	83.2	83.2	105	112	75-125	6	25	
Ethene	**81.1**	**92.8**	77.7	77.7	104	119	75-125	13	25	
Acetylene	**58.0**	**61.2**	72.0	72.0	81	85	60-140	5	25	
Surrogate:										
1-Butene					*107*	*125*	*50-150*			

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	3-27-24	3-27-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-328-01								
	ORIG	DUP							
Total Organic Carbon	**11.9**	**12.4**	NA	NA	NA	NA	4	13	
MATRIX SPIKE									
Laboratory ID:	03-328-01								
	MS		MS		MS				
Total Organic Carbon	**23.2**		10.0	11.9	113	86-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0327W1								
	SB		SB		SB				
Total Organic Carbon	**11.5**		10.0	NA	115	90-122	NA	NA	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-287-01								
	ORIG	DUP							
Ammonia	**1.57**	**1.60**	NA	NA	NA	NA	2	27	
MATRIX SPIKE									
Laboratory ID:	03-287-01								
	MS		MS		MS				
Ammonia	**6.46**		5.00	1.57	98	78-118	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0327W1								
	SB		SB		SB				
Ammonia	**4.77**		5.00	NA	95	85-114	NA	NA	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-308-01							
	ORIG DUP							
Nitrate	**ND** **ND**	NA	NA	NA	NA	NA	19	
MATRIX SPIKE								
Laboratory ID:	03-308-01							
	MS	MS		MS				
Nitrate	**2.15**	2.00	ND	108	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0322W1							
	SB	SB		SB				
Nitrate	**1.88**	2.00	NA	94	87-118	NA	NA	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0321W1					
Nitrite	**ND**	0.020	EPA 353.2	3-21-24	3-21-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-308-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	03-308-01							
	MS	MS		MS				
Nitrite	**0.258**	0.250	ND	103	85-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0321W1							
	SB	SB		SB				
Nitrite	**0.257**	0.250	NA	103	89-118	NA	NA	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327WH1					
Iron	**ND**	50	EPA 6010D	3-27-24	3-27-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-359-05										
	ORIG	DUP									
Iron	**854**	**859**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	03-359-05										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22000**	**21700**	20000	20000	854	**106**	**104**	75-125	1	20	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-308
Project: 4082-039-03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325W1					
Sulfate	**ND**	5.0	ASTM D516-11	3-25-24	3-25-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-287-02								
	ORIG	DUP							
Sulfate	**8.63**	**8.64**	NA	NA	NA	NA	0	10	
MATRIX SPIKE									
Laboratory ID:	03-287-02								
	MS		MS		MS				
Sulfate	**17.8**		10.0	8.63	92	73-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0324W1								
	SB		SB		SB				
Sulfate	**8.98**		10.0	NA	90	85-114	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Mar 28 2024
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
FL358-MW5A-240320	Water	24-A005835	DEM
FL358-MW5B-240320	Water	24-A005836	DEM
FL358-MW6-240320	Water	24-A005837	DEM
FL358-MW10-240320	Water	24-A005838	DEM
FL358-MW14-240320	Water	24-A005839	DEM
FL358-DUP-240320	Water	24-A005840	DEM

Your samples were received on Thursday, March 21, 2024. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

Aaron Young
Vice President

Project #: 4082-039-03
SDG #: 2434040

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
SDG Number: 2434040
Project #: 4082-039-03
All results reported on an as received basis.

Date Received: 03/21/24
Date Reported: 3/28/24

AMTEST Identification Number **24-A005835**
Client Identification **FL358-MW5A-240320**
Sampling Date **03/20/24, 11:25**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	2.4	mg/l		2	SM 5210B	JM	03/22/24

AMTEST Identification Number **24-A005836**
Client Identification **FL358-MW5B-240320**
Sampling Date **03/20/24, 09:15**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	2.5	mg/l		2	SM 5210B	JM	03/22/24

AMTEST Identification Number **24-A005837**
Client Identification **FL358-MW6-240320**
Sampling Date **03/20/24, 10:20**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	2.3	mg/l		2	SM 5210B	JM	03/22/24

AMTEST Identification Number **24-A005838**
Client Identification **FL358-MW10-240320**
Sampling Date **03/20/24, 11:40**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	6.9	mg/l	P	2	SM 5210B	JM	03/22/24

AMTEST Identification Number **24-A005839**
Client Identification **FL358-MW14-240320**
Sampling Date **03/20/24, 12:50**

Demand

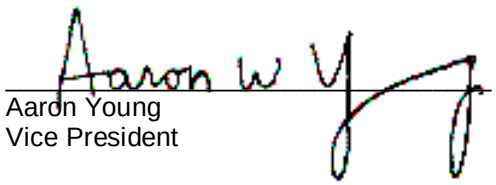
PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	2.6	mg/l		2	SM 5210B	JM	03/22/24

AMTEST Identification Number **24-A005840**
Client Identification **FL358-DUP-240320**
Sampling Date **03/20/24, 06:00**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	3.2	mg/l		2	SM 5210B	JM	03/22/24

P = Oxygen depletion exceeded method specification. Sample was diluted.



Aaron Young
Vice President

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample numbers: 24-A005835 to 24-A005840

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
24-A005836	BOD	mg/l	2.5	2.3	8.3

BLANKS

ANALYTE	UNITS	RESULT
BOD	mg/l	< 2

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 03-308

Laboratory: AmTest Laboratories

Turnaround Request

Project Manager: David Baumeister

Attention: Aaron Young

1 Day | 2 Day | 3 Day

email: dbaumeister@onsite-env.com

13600 NE 126th Pl Kirkland, WA 98034

Standard

Project Number: 4082-039-03

Phone Number: (425) 885-1664

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
5835	FL358-MW5A-240320	3/20/24	11:25	W	1	BOD 5
5836	FL358-MW5B-240320	3/20/24	9:15	W	1	BOD 5
5837	FL358-MW6-240320	3/20/24	10:20	W	1	BOD 5
5838	FL358-MW10-240320	3/20/24	14:40	W	1	BOD 5
5839	FL358-MW14-240320	3/20/24	12:50	W	1	BOD 5
5840	FL358-DUP-240320	3/20/24	6:00	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	3/21/24	4:55 PM	10.1°C
Received by:	Amtest	3/21/24	1655	
Relinquished by:				EDDs
Received by:				
Relinquished by:				
Received by:				

6.5

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc
David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: FL358
Work Order Number: 2403363

March 25, 2024

Attention David Baumeister:

Fremont Analytical, Inc. received 2 sample(s) on 3/20/2024 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *03/25/2024*

CLIENT: OnSite Environmental Inc
Project: FL358
Work Order: 2403363

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2403363-001	FL358-MW14-240320	03/20/2024 12:50 PM	03/20/2024 4:35 PM
2403363-002	FL358-MW10-240320	03/20/2024 2:40 PM	03/20/2024 4:35 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **2403363**
Date: **3/25/2024**

CLIENT: OnSite Environmental Inc
Project: FL358

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

CLIENT: OnSite Environmental Inc
Project: FL358

Lab ID: 2403363-001 **Collection Date:** 3/20/2024 12:50:00 PM
Client Sample ID: **FL358-MW14-240320** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B					Batch ID: R90385	Analyst: SS
Ferrous Iron	5.93	3.75	D	mg/L	25	3/21/2024 10:22:04 AM

Lab ID: 2403363-002 **Collection Date:** 3/20/2024 2:40:00 PM
Client Sample ID: **FL358-MW10-240320** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B					Batch ID: R90385	Analyst: SS
Ferrous Iron	42.7	3.75	D	mg/L	25	3/21/2024 10:22:04 AM

Work Order: 2403363
CLIENT: OnSite Environmental Inc
Project: FL358

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **MB-R90385**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **3/21/2024**	RunNo: **90385**
Client ID: **MBLKW**	Batch ID: **R90385**		Analysis Date: **3/21/2024**	SeqNo: **1885264**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.150									

Sample ID: **LCS-R90385**	SampType: **LCS**	Units: **mg/L**	Prep Date: **3/21/2024**	RunNo: **90385**
Client ID: **LCSW**	Batch ID: **R90385**		Analysis Date: **3/21/2024**	SeqNo: **1885265**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.438	0.150	0.4000	0	110	85	115				

Sample ID: **2403363-001ADUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **3/21/2024**	RunNo: **90385**
Client ID: **FL358-MW14-240320**	Batch ID: **R90385**		Analysis Date: **3/21/2024**	SeqNo: **1885267**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	6.54	3.75						5.930	9.81	20	D

Sample ID: **2403363-001AMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **3/21/2024**	RunNo: **90385**
Client ID: **FL358-MW14-240320**	Batch ID: **R90385**		Analysis Date: **3/21/2024**	SeqNo: **1885268**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	15.7	3.75	10.00	5.930	97.2	70	130				D

Sample ID: **2403363-001AMSD**	SampType: **MSD**	Units: **mg/L**	Prep Date: **3/21/2024**	RunNo: **90385**
Client ID: **FL358-MW14-240320**	Batch ID: **R90385**		Analysis Date: **3/21/2024**	SeqNo: **1885269**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	17.3	3.75	10.00	5.930	114	70	130	15.65	9.91	30	D

Fremont Analytical
An Alliance Technical Group Company

Sample Log-In Check List

Client Name:	ONSITE	Work Order Number:	2403363
Logged by:	Clare Griggs	Date Received:	3/20/2024 4:35:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
4.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5.	Were all items received at a temperature of >2°C to 6°C *	Yes ☑	No ☐	NA ☐
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp ºC
Sample	2.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Chain of Custody

2403363

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: Katy Haktorn & Tricia DeLine
Sampled by: Paul Robertz & Kathryn Josten

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
	FL358-MW14-240320	3/20/24	1250	GW	1
	FL358-MW10-240320	3/20/24	1440	GW	1

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ferrous Iron (SM3500-Fe)				% Moisture
																		X				

	Signature	Company	Date	Time
Relinquished		GeoEngineers	3/20/24	
Received		Alpha Courier	3/20/24	15:30
Relinquished		Alpha	3/20	16:23
Received		FAI	3/20	1635
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: Katy Atakturk and Tricia DeOme
Sampled by: Paul Robinette and Kathryn Josten

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 03-308

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1) *	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW-5A-240320	3/20/24	1125	W	11																		X		X	X	
2	FL358-MW-5B-240320	3/20/24	0915	W	11																		X		X	X	
3	FL358-MW-6-240320	3/20/24	1020	W	11																		X		X	X	
4	FL358-MW-10-240320	3/20/24	1440	W	11																		X	X	X	X	
5	FL358-MW-14-240320	3/20/24	1250	W	11																		X	X	X	X	
	~~FL358-MW-~~	~~3/ /24~~		~~W~~																			X		X	X	
6	FL358-DUP-240320	3/20/24	0600	W	11																		X		X	X	
7	FL358-RB-240320	3/20/24	1355	W	3																		X				
8	FL358-TB-240320	3/20/24	--	W	3																		X				

	Signature	Company	Date	Time
Relinquished		GeoEngineers	3/21/24	1330
Received	#17		3/21/24	150
Relinquished	#17		3/21/24	4:11
Received		ONE	3/21/24	1611
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE and breakdown products

Note 2: Project Dissolved Gasses include Ethane, Ethene, Methane, and Acetylene

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2), Total Fe (EPA 6010D), and BOD (SM521B). + Sulfate

* PCE, TCE, CIS/TRANS-DCE, 1,1-DCE, VC

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 1, 2024

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2403-309

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

Case Narrative

Samples were collected on March 21, 2024 and received by the laboratory on March 21, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW09-240321	03-309-01	Water	3-21-24	3-21-24	
FL358-MW11-240321	03-309-02	Water	3-21-24	3-21-24	
FL358-RB-240321	03-309-03	Water	3-21-24	3-21-24	
FL358-TB-240321	03-309-04	Water	---	3-21-24	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW09-240321**					
Laboratory ID:	03-309-01					
Vinyl Chloride (SIM)	0.32	0.20	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	6.9	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*85*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**FL358-MW11-240321**					
Laboratory ID:	03-309-02					
Vinyl Chloride (SIM)	1.7	0.20	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	4.0	2.0	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	2.0	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*105*	*78-125*				
Client ID:	**FL358-RB-240321**					
Laboratory ID:	03-309-03					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-TB-240321**					
Laboratory ID:	03-309-04					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW09-240321**					
Laboratory ID:	03-309-01					
Methane	**8100**	55	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*91*	*50-150*				
Client ID:	**FL358-MW11-240321**					
Laboratory ID:	03-309-02					
Methane	**570**	5.5	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*89*	*50-150*				

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW09-240321**					
Laboratory ID:	03-309-01					
Total Organic Carbon	**13**	1.0	SM 5310B	3-27-24	3-27-24	
Client ID:	**FL358-MW11-240321**					
Laboratory ID:	03-309-02					
Total Organic Carbon	**23**	1.0	SM 5310B	3-27-24	3-27-24	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW09-240321**					
Laboratory ID:	03-309-01					
Ammonia	**1.3**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	
Client ID:	**FL358-MW11-240321**					
Laboratory ID:	03-309-02					
Ammonia	**3.8**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW09-240321**					
Laboratory ID:	03-309-01					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	
Client ID:	**FL358-MW11-240321**					
Laboratory ID:	03-309-02					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	

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Date of Report: April 1, 2024
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Laboratory Reference: 2403-309
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW09-240321**					
Laboratory ID:	03-309-01					
Nitrite	**ND**	0.020	EPA 353.2	3-21-24	3-21-24	
Client ID:	**FL358-MW11-240321**					
Laboratory ID:	03-309-02					
Nitrite	**ND**	0.020	EPA 353.2	3-21-24	3-21-24	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW09-240321**					
Laboratory ID:	03-309-01					
Iron	**56000**	500	EPA 6010D	3-27-24	3-27-24	
Client ID:	**FL358-MW11-240321**					
Laboratory ID:	03-309-02					
Iron	**54000**	500	EPA 6010D	3-27-24	3-27-24	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW09-240321**					
Laboratory ID:	03-309-01					
Sulfate	**ND**	5.0	ASTM D516-11	3-25-24	3-25-24	
Client ID:	**FL358-MW11-240321**					
Laboratory ID:	03-309-02					
Sulfate	**28**	10	ASTM D516-11	3-25-24	3-25-24	

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Date of Report: April 1, 2024
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Laboratory Reference: 2403-309
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W2					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-22-24	3-22-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Trichloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-24	3-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*95*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0322W2									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.51**	**9.34**	10.0	10.0	95	93	71-135	2	20	
1,1-Dichloroethene	**10.4**	**9.97**	10.0	10.0	104	100	78-125	4	19	
(trans) 1,2-Dichloroethene	**10.1**	**9.91**	10.0	10.0	101	99	80-125	2	17	
(cis) 1,2-Dichloroethene	**10.3**	**10.1**	10.0	10.0	103	101	80-129	2	17	
Trichloroethene	**11.4**	**11.1**	10.0	10.0	114	111	80-122	3	18	
Tetrachloroethene	**9.55**	**10.8**	10.0	10.0	96	108	80-124	12	18	
Surrogate:										
Dibromofluoromethane					*91*	*92*	*75-127*			
Toluene-d8					*99*	*99*	*80-127*			
4-Bromofluorobenzene					*102*	*99*	*78-125*			

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0326W1					
Methane	**ND**	0.55	RSK 175	3-26-24	3-26-24	
Ethane	**ND**	0.56	RSK 175	3-26-24	3-26-24	
Ethene	**ND**	0.58	RSK 175	3-26-24	3-26-24	
Acetylene	**ND**	3.1	RSK 175	3-26-24	3-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*122*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0326W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**46.8**	**48.5**	44.2	44.2	106	110	75-125	4	25	
Ethane	**87.7**	**93.4**	83.2	83.2	105	112	75-125	6	25	
Ethene	**81.1**	**92.8**	77.7	77.7	104	119	75-125	13	25	
Acetylene	**58.0**	**61.2**	72.0	72.0	81	85	60-140	5	25	
Surrogate:										
1-Butene					*107*	*125*	*50-150*			

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Date of Report: April 1, 2024
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Laboratory Reference: 2403-309
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	3-27-24	3-27-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-328-01								
	ORIG	DUP							
Total Organic Carbon	**11.9**	**12.4**	NA	NA	NA	NA	4	13	
MATRIX SPIKE									
Laboratory ID:	03-328-01								
	MS		MS		MS				
Total Organic Carbon	**23.2**		10.0	11.9	113	86-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0327W1								
	SB		SB		SB				
Total Organic Carbon	**11.5**		10.0	NA	115	90-122	NA	NA	

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Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-27-24	3-27-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-287-01								
	ORIG	DUP							
Ammonia	**1.57**	**1.60**	NA	NA	NA	NA	2	27	
MATRIX SPIKE									
Laboratory ID:	03-287-01								
	MS		MS		MS				
Ammonia	**6.46**		5.00	1.57	98	78-118	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0327W1								
	SB		SB		SB				
Ammonia	**4.77**		5.00	NA	95	85-114	NA	NA	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Nitrate	**ND**	0.050	EPA 353.2	3-22-24	3-22-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-308-01							
	ORIG DUP							
Nitrate	**ND** **ND**	NA	NA	NA	NA	NA	19	
MATRIX SPIKE								
Laboratory ID:	03-308-01							
	MS	MS		MS				
Nitrate	**2.15**	2.00	ND	108	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0322W1							
	SB	SB		SB				
Nitrate	**1.88**	2.00	NA	94	87-118	NA	NA	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0321W1					
Nitrite	**ND**	0.020	EPA 353.2	3-21-24	3-21-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-308-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	03-308-01							
	MS	MS		MS				
Nitrite	**0.258**	0.250	ND	103	85-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0321W1							
	SB	SB		SB				
Nitrite	**0.257**	0.250	NA	103	89-118	NA	NA	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327WH1					
Iron	**ND**	50	EPA 6010D	3-27-24	3-27-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-359-05										
	ORIG	DUP									
Iron	**854**	**859**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	03-359-05										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22000**	**21700**	20000	20000	854	**106**	**104**	75-125	1	20	

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Date of Report: April 1, 2024
Samples Submitted: March 21, 2024
Laboratory Reference: 2403-309
Project: 4082-039-03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325W1					
Sulfate	**ND**	5.0	ASTM D516-11	3-25-24	3-25-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-287-02								
	ORIG	DUP							
Sulfate	**8.63**	**8.64**	NA	NA	NA	NA	0	10	
MATRIX SPIKE									
Laboratory ID:	03-287-02								
	MS		MS		MS				
Sulfate	**17.8**		10.0	8.63	92	73-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0324W1								
	SB		SB		SB				
Sulfate	**8.98**		10.0	NA	90	85-114	NA	NA	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Mar 28 2024
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
FL358-MW09-240321	Water	24-A005841	DEM
FL358-MW11-240321	Water	24-A005842	DEM

Your samples were received on Thursday, March 21, 2024. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

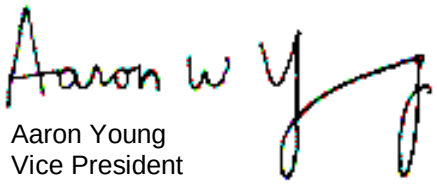
The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,



Aaron Young
Vice President

Project #: 4082-039-03
SDG #: 2434040

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
SDG Number: 2434040
Project #: 4082-039-03
All results reported on an as received basis.

Date Received: 03/21/24
Date Reported: 3/28/24

AMTEST Identification Number **24-A005841**
Client Identification **FL358-MW09-240321**
Sampling Date **03/21/24, 09:55**

Demand

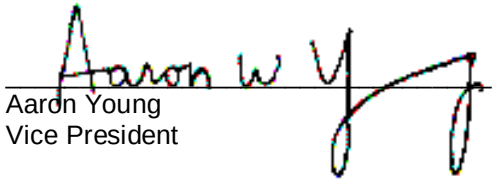
PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	12.	mg/l	P	2	SM 5210B	JM	03/22/24

AMTEST Identification Number **24-A005842**
Client Identification **FL358-MW11-240321**
Sampling Date **03/21/24, 11:55**

Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
BOD	9.1	mg/l		2	SM 5210B	JM	03/22/24

P = Oxygen depletion exceeded method specification. Sample was diluted.



Aaron Young
Vice President

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample numbers: 24-A005841 to 24-A005842

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
24-A005836	BOD	mg/l	2.5	2.3	8.3

BLANKS

ANALYTE	UNITS	RESULT
BOD	mg/l	< 2

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 03-309

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other:

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
5841	FL358-MW09-240321	3/21/24	9:55	W	1	BOD 5
5842	FL358-MW11-240321	3/21/24	11:55	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	3/21/24	4:55	
Received by: KH	Amtest	3/21/24	1655	10.1°C
Relinquished by:				EDDs
Received by:				
Relinquished by:				
Received by:				

P.4

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc
David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: FL358
Work Order Number: 2403390

March 25, 2024

Attention David Baumeister:

Fremont Analytical, Inc. received 2 sample(s) on 3/21/2024 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,



Brianna Barnes
Project Manager

Date: *03/25/2024*

CLIENT: OnSite Environmental Inc
Project: FL358
Work Order: 2403390

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2403390-001	FL358-MW09-240321	03/21/2024 9:55 AM	03/21/2024 3:30 PM
2403390-002	FL358-MW11-240321	03/21/2024 11:55 AM	03/21/2024 3:30 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **2403390**
Date: **3/25/2024**

CLIENT: OnSite Environmental Inc
Project: FL358

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **2403390**
Date Reported: **3/25/2024**

CLIENT: OnSite Environmental Inc
Project: FL358

Lab ID: 2403390-001 **Collection Date:** 3/21/2024 9:55:00 AM
Client Sample ID: **FL358-MW09-240321** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R90385		Analyst: SS
Ferrous Iron	56.2	18.8	D	mg/L	125	3/21/2024 4:00:00 PM

Lab ID: 2403390-002 **Collection Date:** 3/21/2024 11:55:00 AM
Client Sample ID: **FL358-MW11-240321** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R90385		Analyst: SS
Ferrous Iron	45.3	18.8	D	mg/L	125	3/21/2024 4:00:00 PM

Work Order: 2403390
CLIENT: OnSite Environmental Inc
Project: FL358

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **MB-R90385**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **3/21/2024**	RunNo: **90385**
Client ID: **MBLKW**	Batch ID: **R90385**		Analysis Date: **3/21/2024**	SeqNo: **1885264**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.150									

Sample ID: **LCS-R90385**	SampType: **LCS**	Units: **mg/L**	Prep Date: **3/21/2024**	RunNo: **90385**
Client ID: **LCSW**	Batch ID: **R90385**		Analysis Date: **3/21/2024**	SeqNo: **1885265**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.438	0.150	0.4000	0	110	85	115				

Sample ID: **2403363-001ADUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **3/21/2024**	RunNo: **90385**
Client ID: **BATCH**	Batch ID: **R90385**		Analysis Date: **3/21/2024**	SeqNo: **1885267**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	6.54	3.75						5.930	9.81	20	D

Sample ID: **2403363-001AMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **3/21/2024**	RunNo: **90385**
Client ID: **BATCH**	Batch ID: **R90385**		Analysis Date: **3/21/2024**	SeqNo: **1885268**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	15.7	3.75	10.00	5.930	97.2	70	130				D

Sample ID: **2403363-001AMSD**	SampType: **MSD**	Units: **mg/L**	Prep Date: **3/21/2024**	RunNo: **90385**
Client ID: **BATCH**	Batch ID: **R90385**		Analysis Date: **3/21/2024**	SeqNo: **1885269**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	17.3	3.75	10.00	5.930	114	70	130	15.65	9.91	30	D

Sample Log-In Check List

Client Name:	ONSITE	Work Order Number:	2403390
Logged by:	Morgan Wilson	Date Received:	3/21/2024 3:30:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
4.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5.	Were all items received at a temperature of >2°C to 6°C *	Yes ☑	No ☐	NA ☐
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp ºC
Sample	1.6

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 24033390

Company:	GeoEngineers
Project Number:	4082-039-03
Project Name:	FL358
Project Manager:	Katy Atakturk and Tricia DeOme
Sampled by:	Paul Robinette and Kathryn Josten

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☑ Standard (7 Days)
- ☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
	FL358-MW09-240321	3/21/24	0955	W	1																			X			
	FL358-MW11-240321	3/21/24	1155	W	1																			X			

	Signature	Company	Date	Time
Relinquished	Kathryn Josten	GEI	3/21/24	1330
Received	#19	Geoengineers	3/21/24	1530
Relinquished	#17	Geoengineers	3/21/24	5:28
Received		FAI	3/21/24	15:30
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 03-309

Company:	GeoEngineers
Project Number:	4082-039-03
Project Name:	FL358
Project Manager:	Katy Atakturk and Tricia DeOme
Sampled by:	Paul Robinette and Kathryn Josten

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1) *	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW09-240321	3/21/24	0955	W	11																		X	X	X	X	
2	FL358-MW11-240321	3/21/24	1155	W	11																		X	X	X	X	
3	FL358-RB-240321	3/21/24	1135	W	3																		X				
4	FL358-TB-240321	3/21/24	--	W	3																		X				

	Signature	Company	Date	Time
Relinquished	Kathryn Josten #17	GEI	3/21/24	1330
Received		Steedy #17	3/21/24	1530
Relinquished	#17	Steedy #17	3/21/24	16:11
Received		OSE	3/21/24	1611
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE and breakdown products

Note 2: Project Dissolved Gasses include Ethane, Ethene, Methane, and Acetylene

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2), Total Fe (EPA 6010D), and BOD (SM521B). + Sulfates

* PCE, TCE, CIS, TRANS-DCE, 1,1-DCE, VC

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 30, 2024

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2409-217

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on September 18, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

Case Narrative

Samples were collected on September 17, 2024 and received by the laboratory on September 18, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW9-240917	09-217-01	Water	9-17-24	9-18-24	
FL358-MW10-240917	09-217-02	Water	9-17-24	9-18-24	
FL358-RB1-240917	09-217-03	Water	9-17-24	9-18-24	
FL358-TB1-240917	09-217-04	Water	---	9-18-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-240917**					
Laboratory ID:	09-217-01					
Vinyl Chloride	0.25	0.20	EPA 8260D	9-19-24	9-19-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
(cis) 1,2-Dichloroethene	6.1	0.20	EPA 8260D	9-19-24	9-19-24	
Trichloroethene	0.67	0.20	EPA 8260D	9-19-24	9-19-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*103*	*78-117*				
Client ID:	**FL358-MW10-240917**					
Laboratory ID:	09-217-02					
Vinyl Chloride	0.54	0.20	EPA 8260D	9-19-24	9-19-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
(cis) 1,2-Dichloroethene	2.5	0.20	EPA 8260D	9-19-24	9-19-24	
Trichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-RB1-240917**					
Laboratory ID:	09-217-03					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Trichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*68-133*				
Toluene-d8	*96*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-TB1-240917**					
Laboratory ID:	09-217-04					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Trichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-240917**					
Laboratory ID:	09-217-01					
Methane	**3900**	55	RSK 175	9-24-24	9-24-24	
Ethane	**ND**	0.56	RSK 175	9-24-24	9-24-24	
Ethene	**ND**	0.58	RSK 175	9-24-24	9-24-24	
Acetylene	**3.5**	3.1	RSK 175	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*78*	*50-150*				
Client ID:	**FL358-MW10-240917**					
Laboratory ID:	09-217-02					
Methane	**1700**	28	RSK 175	9-24-24	9-24-24	
Ethane	**ND**	0.56	RSK 175	9-24-24	9-24-24	
Ethene	**ND**	0.58	RSK 175	9-24-24	9-24-24	
Acetylene	**ND**	3.1	RSK 175	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*83*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-240917**					
Laboratory ID:	09-217-01					
Total Organic Carbon	**12**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW10-240917**					
Laboratory ID:	09-217-02					
Total Organic Carbon	**9.3**	1.0	SM 5310B	9-23-24	9-23-24	

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Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-240917**					
Laboratory ID:	09-217-01					
Ammonia	**1.2**	0.053	SM 4500-NH3 D	9-20-24	9-20-24	
Client ID:	**FL358-MW10-240917**					
Laboratory ID:	09-217-02					
Ammonia	**0.55**	0.053	SM 4500-NH3 D	9-20-24	9-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-240917**					
Laboratory ID:	09-217-01					
Nitrate	**0.13**	0.050	EPA 353.2	9-18-24	9-18-24	
Client ID:	**FL358-MW10-240917**					
Laboratory ID:	09-217-02					
Nitrate	**0.20**	0.050	EPA 353.2	9-18-24	9-18-24	

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-240917**					
Laboratory ID:	09-217-01					
Nitrite	**ND**	0.020	EPA 353.2	9-18-24	9-18-24	
Client ID:	**FL358-MW10-240917**					
Laboratory ID:	09-217-02					
Nitrite	**ND**	0.020	EPA 353.2	9-18-24	9-18-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-240917**					
Laboratory ID:	09-217-01					
Sulfate	**5.5**	5.0	ASTM D516-11	9-19-24	9-19-24	
Client ID:	**FL358-MW10-240917**					
Laboratory ID:	09-217-02					
Sulfate	**ND**	5.0	ASTM D516-11	9-19-24	9-19-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-240917**					
Laboratory ID:	09-217-01					
Chloride	**22**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW10-240917**					
Laboratory ID:	09-217-02					
Chloride	**17**	2.0	SM 4500-Cl E	9-23-24	9-23-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-240917**					
Laboratory ID:	09-217-01					
Iron	**47000**	500	EPA 6010D	9-24-24	9-24-24	
Client ID:	**FL358-MW10-240917**					
Laboratory ID:	09-217-02					
Iron	**23000**	500	EPA 6010D	9-24-24	9-24-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919W1					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Trichloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0919W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.2**	**9.94**	10.0	10.0	102	99	67-130	3	15	
1,1-Dichloroethene	**10.5**	**10.3**	10.0	10.0	105	103	74-125	2	15	
(trans) 1,2-Dichloroethene	**10.6**	**10.3**	10.0	10.0	106	103	77-125	3	15	
(cis) 1,2-Dichloroethene	**10.5**	**10.3**	10.0	10.0	105	103	78-130	2	15	
Trichloroethene	**11.6**	**11.2**	10.0	10.0	116	112	80-126	4	15	
Tetrachloroethene	**11.2**	**11.4**	10.0	10.0	112	114	80-125	2	15	
Surrogate:										
Dibromofluoromethane					*89*	*87*	*68-133*			
Toluene-d8					*100*	*99*	*79-123*			
4-Bromofluorobenzene					*103*	*104*	*78-117*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924W1					
Methane	**ND**	0.55	RSK 175	9-24-24	9-24-24	
Ethane	**ND**	0.56	RSK 175	9-24-24	9-24-24	
Ethene	**ND**	0.58	RSK 175	9-24-24	9-24-24	
Acetylene	**ND**	3.1	RSK 175	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*90*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0924W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**36.4**	**39.8**	44.2	44.2	82	90	75-125	9	25	
Ethane	**66.7**	**74.1**	83.2	83.2	80	89	75-125	11	25	
Ethene	**60.1**	**68.5**	77.7	77.7	77	88	75-125	13	25	
Acetylene	**48.2**	**46.0**	72.0	72.0	67	64	60-140	5	25	
Surrogate:										
1-Butene					*84*	*95*	*50-150*			

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Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-23-24	9-23-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-217-01							
	ORIG DUP							
Total Organic Carbon	**12.2** **12.1**	NA	NA	NA	NA	1	11	
MATRIX SPIKE								
Laboratory ID:	09-217-01							
	MS	MS		MS				
Total Organic Carbon	**20.8**	10.0	12.2	86	85-120	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Organic Carbon	**10.2**	10.0	NA	102	79-120	NA	NA	

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Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-20-24	9-20-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-217-01								
	ORIG	DUP							
Ammonia	**1.20**	**1.21**	NA	NA	NA	NA	1	15	
MATRIX SPIKE									
Laboratory ID:	09-217-01								
	MS		MS		MS				
Ammonia	**5.30**		5.00	1.20	82	75-111	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0920W1								
	SB		SB		SB				
Ammonia	**4.99**		5.00	NA	100	81-110	NA	NA	

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Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918W1					
Nitrate	**ND**	0.050	EPA 353.2	9-18-24	9-18-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-217-01								
	ORIG	DUP							
Nitrate	**0.128**	**0.119**	NA	NA	NA	NA	7	22	
MATRIX SPIKE									
Laboratory ID:	09-217-01								
	MS		MS		MS				
Nitrate	**2.45**		2.00	0.128	116	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0918W1								
	SB		SB		SB				
Nitrate	**2.08**		2.00	NA	104	85-117	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918W1					
Nitrite	**ND**	0.020	EPA 353.2	9-18-24	9-18-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-217-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
SPIKE BLANK								
Laboratory ID:	SB0918W1							
	SB	SB		SB				
Nitrite	**0.267**	0.250	NA	107	91-116	NA	NA	
MATRIX SPIKE								
Laboratory ID:	09-217-01							
	MS	MS		MS				
Nitrite	**0.266**	0.250	ND	106	85-121	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919W1					
Sulfate	**ND**	5.0	ASTM D516-11	9-19-24	9-19-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-194-01								
	ORIG	DUP							
Sulfate	**12.6**	**13.5**	NA	NA	NA	NA	7	11	
MATRIX SPIKE									
Laboratory ID:	09-194-01								
	MS		MS		MS				
Sulfate	**24.3**		10.0	12.6	117	69-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0919W1								
	SB		SB		SB				
Sulfate	**8.82**		10.0	NA	88	81-106	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	**ND**	2.0	SM 4500-Cl E	9-23-24	9-23-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-217-01								
	ORIG	DUP							
Chloride	**21.7**	**22.4**	NA	NA	NA	NA	3	21	
MATRIX SPIKE									
Laboratory ID:	09-217-01								
	MS		MS		MS				
Chloride	**78.0**		50.0	21.7	113	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0923W1								
	SB		SB		SB				
Chloride	**49.6**		50.0	NA	99	77-115	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 30, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-217
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924WH1					
Iron	**ND**	50	EPA 6010D	9-24-24	9-24-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-040-13										
	ORIG	DUP									
Iron	**296**	**288**	NA	NA		NA		NA	3	20	
MATRIX SPIKES											
Laboratory ID:	09-040-13										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**20800**	**20800**	20000	20000	296	**102**	**102**	75-125	0	20	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

September 23, 2024

David Baumeister
14648 NE 95th ST
Redmond, WA 98052

Project: OSE
Project Number: [none]
Project Manager: David Baumeister
RE: OSE

Enclosed are the results of analyses for samples received by our laboratory on 9/18/2024.
Please feel free to contact me with any questions or considerations regarding this report.

Sincerely,

ElementStationManager For Aaron Young
President

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/18/24
Date Reported: 09/23/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: [none]

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A24I0332-01	FL358-MW9-240917	Water		09/17/2024	09/18/2024
A24I0332-02	FL358-MW10-240917	Water		09/17/2024	09/18/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 09/18/24
Date Reported: 09/23/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: [none]

AMTEST Identification Number: A24I0332-01
Client Identification: FL358-MW9-240917
Sampling Date: 09/17/24 12:10

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	17	mg/L		2	SM 5210B_2011	JM	09/18/2024

AMTEST Identification Number: A24I0332-02
Client Identification: FL358-MW10-240917
Sampling Date: 09/17/24 12:10

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	7	mg/L		2	SM 5210B_2011	JM	09/18/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

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Attention: David Baumeister
Project Name: OSE
Project #: [none]

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Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBI0295 - No Prep - WetChem										
Calibration Blank (BBI0295-CCB1)					Prepared & Analyzed: 09/18/24					
Biological Oxygen Demand (BOD)	0	U		mg/L						
Duplicate (BBI0295-DUP1)		**Source: A24I0297-01**			Prepared & Analyzed: 09/18/24					
Biological Oxygen Demand (BOD)	3		2	mg/L		4			19	35.5
Duplicate (BBI0295-DUP2)		**Source: A24I0317-03**			Prepared & Analyzed: 09/18/24					
Biological Oxygen Demand (BOD)	ND	U	2	mg/L		ND				35.5

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Attention: David Baumeister
Project Name: OSE
Project #: [none]

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

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A24I0332

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 09-217

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day | Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW9-240917	9/17/24	12:10	W	1	BOD 5
02	FL358-MW10-240917	9/17/24	14:35	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by: Nicholas B. Lee	CSE	9/18/24	13:20	6.4°C
Received by: IL	AmTest	9/18/24	13:20	
Relinquished by:				**EDDs**
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: Brittany Waite and Tricia DeOme
Sampled by: James Kohn &Divya Khandelwal

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-217

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW9-240917	9/17/24	1210	W	10																		X		X	X	
2	FL358-MW10-240917	9/17/24	1435	W	10																		X		X	X	
~~—~~	~~FL358-MW~~	9/ /24		W																			~~X~~		~~X~~	~~X~~	
~~—~~	~~FL358-MW~~	9/ /24		W																			~~X~~		~~X~~	~~X~~	
~~—~~	~~FL358-MW~~	9/ /24		W																			~~X~~		~~X~~	~~X~~	
~~—~~	~~FL358-MW~~	9/ /24		W																			~~X~~		~~X~~	~~X~~	
~~—~~	~~FL358-DUP~~	9/ /24		W																			~~X~~		~~X~~	~~X~~	
3	FL358-RB1-240917	9/17/24	1414	W	3																		X				
4	FL358-TB1-240917	9/17/24	--	W	3																		X				

	Signature	Company	Date	Time
Relinquished		CEI	9/18/24	913
Received	Van	Spdy	9/18/24	0913
Relinquished	Van	Spdy	9/18/24	1225
Received		CEI	9/18/24	1225
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

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ACCREDITED
CERTIFICATE #7157.01

SITE LOGIC Report

QuantArray®-Chlor Study

Contact:	Tricia DeOme	Phone:	253-267-2114
Address:	GeoEngineers, Inc. 1101 South Fawcett Avenue Tacoma, WA 98402	Email:	tdeome@geoengineers.com

MI Identifier: 065VI

Report Date: 09/27/2024

Project: FL358

Reviewed By: *Sarah Keys*

Comments:

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The QuantArray®-Chlor Approach

Quantification *Dehalococcoides*, the only known bacterial group capable of complete reductive dechlorination of PCE and TCE to ethene, has become an indispensable component of assessment, remedy selection, and performance monitoring at sites impacted by chlorinated solvents. While undeniably a key group of halorespiring bacteria, *Dehalococcoides* are not the only bacteria of interest in the subsurface because reductive dechlorination is not the only potential biodegradation pathway operative at contaminated sites, and chlorinated ethenes are not always the primary contaminants of concern. The QuantArray®-Chlor not only includes a variety of halorespiring bacteria (*Dehalococcoides*, *Dehalobacter*, *Dehalogenimonas*, etc.) to assess the potential for reductive dechlorination of chloroethenes, chloroethanes, chlorobenzenes, chlorophenols, and chloroform, but also provides quantification of functional genes involved in aerobic (co)metabolic pathways for biodegradation of chlorinated solvents and even competing biological processes. Thus, the QuantArray®-Chlor will give site managers the ability to simultaneously yet economically evaluate the potential for biodegradation of a spectrum of common chlorinated contaminants through a multitude of anaerobic and aerobic (co)metabolic pathways to give a much more clear and comprehensive view of contaminant biodegradation.

The QuantArray®-Chlor is used to quantify specific microorganisms and functional genes to evaluate the following:

Anaerobic Reductive Dechlorination	Quantification of important halorespiring bacteria (e.g. *Dehalococcoides*, *Dehalobacter*, *Dehalogenimonas*, *Desulfitobacterium* spp.) and key functional genes (e.g. vinyl chloride reductases, TCE reductase, chloroform reductase) responsible for reductive dechlorination of a broad spectrum of chlorinated solvents.
Aerobic Cometabolism	Several different types of bacteria including methanotrophs and some toluene/phenol utilizing bacteria can co-oxidize TCE, DCE, and vinyl chloride. The QuantArray®-Chlor quantifies functional genes like soluble methane monooxygenase encoding enzymes capable of co-oxidation of chlorinated ethenes.
Aerobic (Co)metabolism of Vinyl Chloride	Ethene oxidizing bacteria are capable of cometabolism of vinyl chloride. In some cases, ethenotrophs can also utilize vinyl chloride as a growth supporting substrate. The QuantArray®-Chlor targets key functional genes in ethene metabolism.

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Results

Table 1: Summary of the QuantArray®-Chlor results obtained for samples FL358-MW5A-240919, FL358-MW11-240919, and FL358-MW18-240919

Sample Name Sample Date	FL358-MW5A-240919 09/19/2024	FL358-MW11-240919 09/19/2024	FL358-MW18-240919 09/19/2024
Reductive Dechlorination	cells/mL	cells/mL	cells/mL
Dehalococcoides (DHC)	**1.50E+02**	**5.50E+01**	**7.60E+00**
tceA Reductase (TCE)	<2.40E-01	<2.50E-01	<2.40E-01
BAV1 Vinyl Chloride Reductase (BVC)	**5.70E+00**	**2.30E+00**	<2.40E-01
Vinyl Chloride Reductase (VCR)	**2.60E+01**	**1.00E+00**	<2.40E-01
Dehalobacter spp. (DHBt)	**6.90E+02**	**1.80E+03**	**1.10E+04**
Dehalobacter DCM (DCM)	**2.50E+03**	<2.50E-01	<2.40E-01
Dehalogenimonas spp. (DHG)	**1.40E+04**	**4.10E+02**	**1.60E+01**
cerA Reductase (CER)	<2.40E-01	<2.50E-01	<2.40E-01
trans-1,2-DCE Reductase (TDR)	<2.40E-01	<2.50E-01	<2.40E-01
Desulfitobacterium spp. (DSB)	**2.90E+03**	**7.60E+03**	**1.40E+04**
Dehalobium chlorocoercia (DECO)	**1.30E+04**	**1.20E+04**	**2.70E+03**
Desulfuromonas spp. (DSM)	<2.40E-01	**2.80E+01**	<2.40E-01
PCE Reductase (PCE-1)	**6.70E+01**	<2.50E-01	<2.40E-01
PCE Reductase (PCE-2)	<2.40E-01	<2.50E-01	<2.40E-01
Chloroform Reductase (CFR)	<2.40E-01	<2.50E-01	<2.40E-01
1,1 DCA Reductase (DCA)	<2.40E-01	<2.50E-01	<2.40E-01
1,2 DCA Reductase (DCAR)	<2.40E-01	<2.50E-01	<2.40E-01
Aerobic (Co)Metabolic			
Soluble Methane Monooxygenase (SMMO)	**1.30E+02**	**8.00E+02**	**3.00E+01**
Toluene Dioxygenase (TOD)	<2.40E-01	<2.50E-01	<2.40E-01
Phenol Hydroxylase (PHE)	**1.20E+02**	**6.60E+02**	**4.80E+02**
Trichlorobenzene Dioxygenase (TCBO)	<2.40E-01	<2.50E-01	<2.40E-01
Toluene Monooxygenase 2 (RDEG)	<2.40E-01	**9.90E+02**	**4.50E+02**
Toluene Monooxygenase (RMO)	<2.40E-01	**1.40E+02**	**3.10E+03**
Ethene Monooxygenase (EtnC)	<2.40E-01	<2.50E-01	<2.40E-01
Epoxyalkane Transferase (EtnE)	<2.40E-01	<2.50E-01	<2.40E-01
Dichloromethane Dehalogenase (DCMA)	<2.40E-01	<2.50E-01	<2.40E-01
Other			
Total Eubacteria (EBAC)	**3.20E+06**	**5.90E+06**	**1.14E+07**
Sulfate Reducing Bacteria (APS)	**2.60E+04**	**4.00E+04**	**1.70E+02**
Methanogens (MGN)	**1.90E+02**	**5.70E+02**	**8.20E+01**

Legend:

NA = Not Analyzed
NS = Not Sampled
J = Estimated Gene Copies Below PQL but Above LQL
I = Inhibited
< = Result Not Detected

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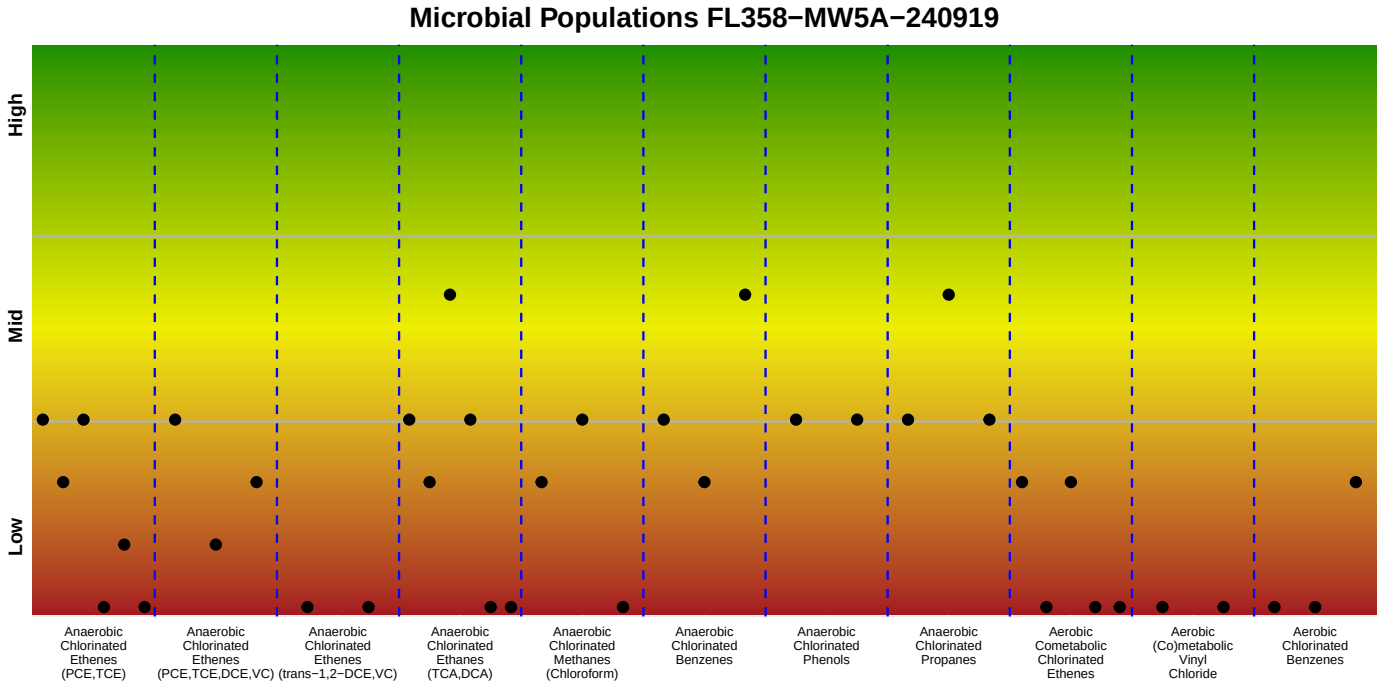


Figure 1: Microbial population summary to aid in evaluating potential pathways and biodegradation of specific contaminants. See below to understand the correlation between contaminants and their associated qPCR assays.

Anaerobic - Reductive Dechlorination or Dichloroelimination	
Contaminants	**qPCR Assays**
Chlorinated Ethenes (PCE, TCE)	DHC, DHBt, DSB, DSM, PCE-1, PCE-2
Chlorinated Ethenes (PCE, TCE, DCE, VC)	DHC, BVC, VCR
Chlorinated Ethenes (trans-1,2-DCE, VC)	TDR, CER
Chlorinated Ethanes (TCA and 1,2- DCA)	DHC, DHBt, DHG, DSB[1], DCA, DCAR
Chlorinated Methanes (Chloroform)	DHBt, DCM, CFR
Chlorinated Benzenes	DHC, DHBt[2], DECO
Chlorinated Phenols	DHC, DSB
Chlorinated Propanes	DHC, DHG, DSB[1]
Aerobic - (Co)metabolism	
Chlorinated Ethenes (TCE,DCE,VC)	sMMO, TOD, PHE, RDEG, RMO
(Co)metabolic Vinyl Chloride	etnC, etnE
Chlorinated Benzenes	TOD, TCBO, PHE

[1] *Desulfitobacterium dichloroeliminans* DCA1. [2] Implicated in reductive dechlorination of dichlorobenzene and potentially chlorobenzene.

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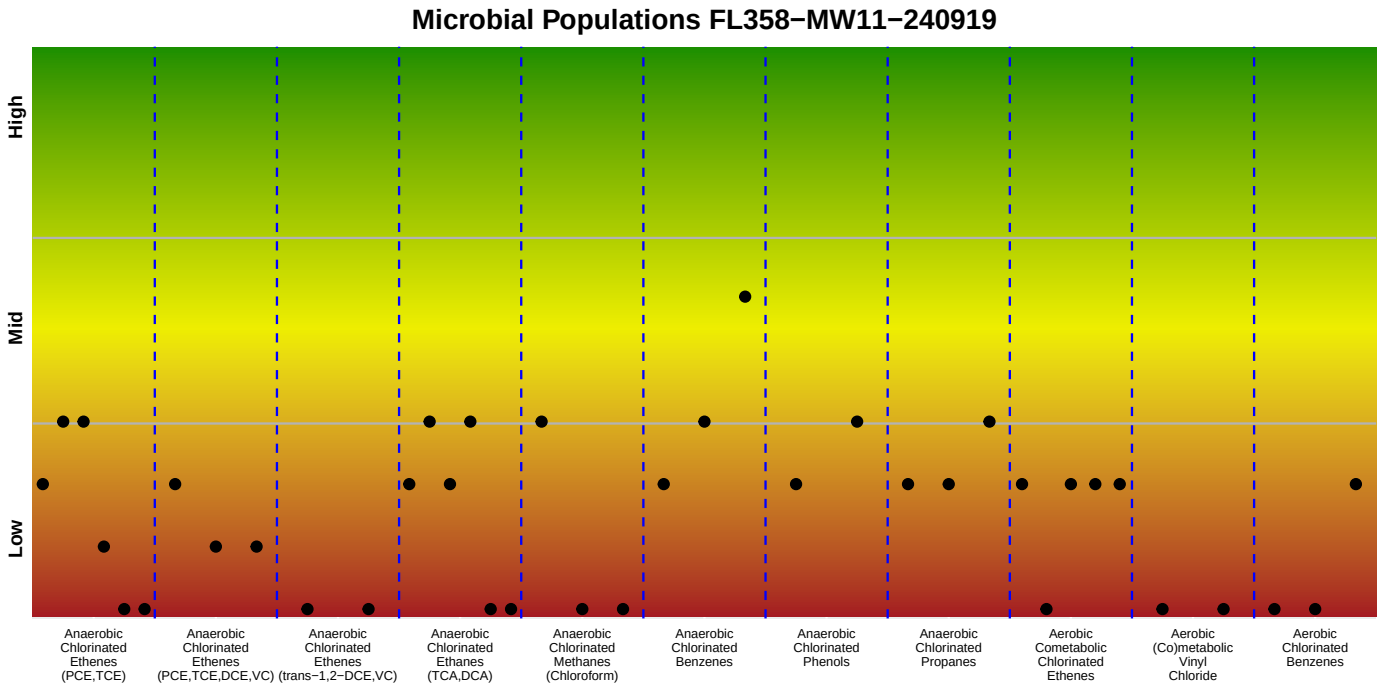


Figure 2: Microbial population summary to aid in evaluating potential pathways and biodegradation of specific contaminants. See below to understand the correlation between contaminants and their associated qPCR assays.

Anaerobic - Reductive Dechlorination or Dichloroelimination	
Contaminants	**qPCR Assays**
Chlorinated Ethenes (PCE, TCE)	DHC, DHBt, DSB, DSM, PCE-1, PCE-2
Chlorinated Ethenes (PCE, TCE, DCE, VC)	DHC, BVC, VCR
Chlorinated Ethenes (trans-1,2-DCE, VC)	TDR, CER
Chlorinated Ethanes (TCA and 1,2- DCA)	DHC, DHBt, DHG, DSB[1], DCA, DCAR
Chlorinated Methanes (Chloroform)	DHBt, DCM, CFR
Chlorinated Benzenes	DHC, DHBt[2], DECO
Chlorinated Phenols	DHC, DSB
Chlorinated Propanes	DHC, DHG, DSB[1]
Aerobic - (Co)metabolism	
Chlorinated Ethenes (TCE,DCE,VC)	sMMO, TOD, PHE, RDEG, RMO
(Co)metabolic Vinyl Chloride	etnC, etnE
Chlorinated Benzenes	TOD, TCBO, PHE

[1] *Desulfitobacterium dichloroeliminans* DCA1. [2] Implicated in reductive dechlorination of dichlorobenzene and potentially chlorobenzene.

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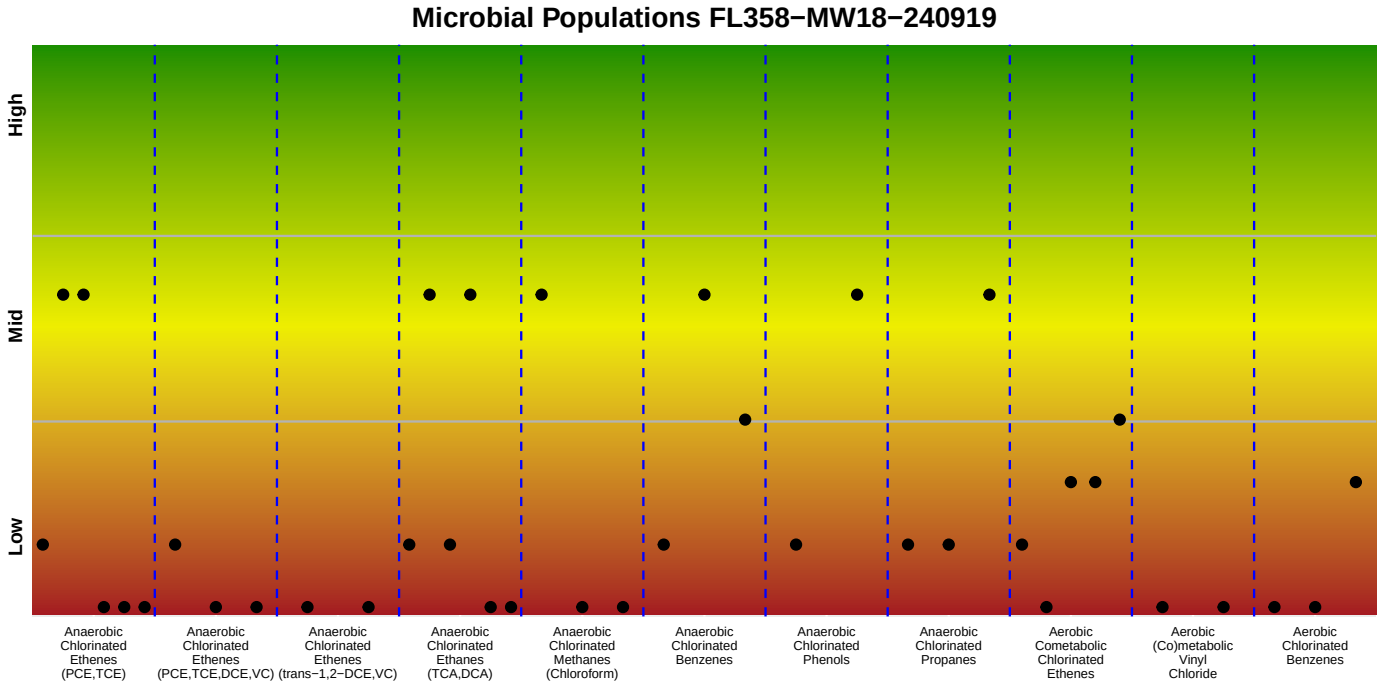


Figure 3: Microbial population summary to aid in evaluating potential pathways and biodegradation of specific contaminants. See below to understand the correlation between contaminants and their associated qPCR assays.

Anaerobic - Reductive Dechlorination or Dichloroelimination	
Contaminants	**qPCR Assays**
Chlorinated Ethenes (PCE, TCE)	DHC, DHBt, DSB, DSM, PCE-1, PCE-2
Chlorinated Ethenes (PCE, TCE, DCE, VC)	DHC, BVC, VCR
Chlorinated Ethenes (trans-1,2-DCE, VC)	TDR, CER
Chlorinated Ethanes (TCA and 1,2- DCA)	DHC, DHBt, DHG, DSB[1], DCA, DCAR
Chlorinated Methanes (Chloroform)	DHBt, DCM, CFR
Chlorinated Benzenes	DHC, DHBt[2], DECO
Chlorinated Phenols	DHC, DSB
Chlorinated Propanes	DHC, DHG, DSB[1]
Aerobic - (Co)metabolism	
Chlorinated Ethenes (TCE,DCE,VC)	sMMO, TOD, PHE, RDEG, RMO
(Co)metabolic Vinyl Chloride	etnC, etnE
Chlorinated Benzenes	TOD, TCBO, PHE

[1] *Desulfitobacterium dichloroeliminans* DCA1. [2] Implicated in reductive dechlorination of dichlorobenzene and potentially chlorobenzene.

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Interpretation

The overall purpose of the QuantArray®-Chlor is to give site managers the ability to simultaneously yet economically evaluate the potential for biodegradation of a spectrum of common chlorinated contaminants through a multitude of anaerobic and aerobic (co)metabolic pathways in order to provide a clearer and more comprehensive view of contaminant biodegradation. The following discussion describes the interpretation of results in general terms and is meant to serve as a guide.

Reductive Dechlorination - Chlorinated Ethenes: While a number of bacterial cultures including *Dehalococcoides*, *Dehalobacter*, *Desulfitobacterium*, *Desulfuromonas* spp. capable, of utilizing PCE and TCE as growth-supporting electron acceptors have been isolated [1–5], *Dehalococcoides* may be the most important because they are the only bacterial group that has been isolated to date which is capable of complete reductive dechlorination of PCE to ethene [6]. In fact, the presence of *Dehalococcoides* has been associated with complete reductive dechlorination to ethene at sites across North America and Europe. Hendrickson and Lu have proposed using a *Dehalococcoides* concentration of 1 x 10^4 cells/mL as a screening criterion to identify sites where biological reductive dechlorination is predicted to proceed at "generally useful" rates [7,8].

At chlorinated ethene sites, any "stall" leading to the accumulation of daughter products, especially vinyl chloride, would be a substantial concern. While *Dehalococcoides* concentrations greater than 1 x 10^4 cells/mL correspond to ethene production and useful rates of dechlorination, the range of chlorinated ethenes degraded varies by strain within the *Dehalococcoides* genus [6,9] and the presence of co-contaminants and competitors can have complex impacts on the halorespiring microbial community [10–15]. Therefore, QuantArray®-Chlor also provides quantification of a suite of reductive dehalogenase genes (PCE, TCE, BVC, VCR, CER, and TDR) to more definitively confirm the potential for reductive dechlorination of all chlorinated ethene compounds including vinyl chloride.

Perhaps most importantly, QuantArray®-Chlor quantifies TCE reductase (TCE) and both known vinyl chloride reductase genes (BVC, VCR) from *Dehalococcoides* to conclusively evaluate the potential for complete reductive dechlorination of chlorinated ethenes to non-toxic ethene [16–18]. In addition, the analysis also includes quantification of reductive dehalogenase genes from *Dehalogenimonas* spp. capable of reductive dechlorination of chlorinated ethenes. More specifically, these are the trans-1,2-DCE dehalogenase gene (TDR) from strain WBC-2 [19] and the vinyl chloride reductase gene (CER) from GP, the only known organisms other than *Dehalococcoides* capable of vinyl chloride reduction [20]. Finally, PCE reductase genes responsible for sequential reductive dechlorination of PCE to *cis*-DCE by *Sulfurospirillum* and *Geobacter* spp. are also quantified. In mixed cultures, evidence increasingly suggests that partial dechlorinators like *Sulfurospirillum}* and *Geobacter* may be responsible for the majority of reductive dechlorination of PCE to TCE and *cis*-DCE while *Dehalococcoides* functions more as *cis*-DCE and vinyl chloride reducing specialists [10,21].

Reductive Dechlorination - Chlorinated Ethanes: Under anaerobic conditions, chlorinated ethanes are susceptible to reductive dechlorination by several groups of halorespiring bacteria including *Dehalobacter*, *Dehalogenimonas*, and *Dehalococcoides*. While the reported range of chlorinated ethanes utilized varies by genus, species, and sometimes at the strain level, several general observations can be made regarding biodegradation pathways and daughter product formation. *Dehalobacter* spp. have been isolated that are capable of sequential reductive dechlorination of 1,1,1-TCA through 1,1-DCA to chloroethane [13]. Biodegradation of 1,1,2-TCA by several halorespiring bacteria including *Dehalobacter* and *Dehalogenimonas* spp. proceeds via dichloroelimination producing vinyl chloride [22–24]. Similarly, 1,2-DCA biodegradation by *Dehalobacter*, *Dehalogenimonas*, and *Dehalococcoides* occurs via dichloroelimination producing ethene. While not utilized by many *Desulfitobacterium* isolates, at least one strain, *Desulfitobacterium dichloroeliminans* strain DCA1, is also capable of dichloroelimination of 1,2-DCA [25]. The 1,2-dichloroethane reductive dehalogenase gene (DCAR) from members of *Desulfitobacterium* and *Dehalobacter* is known to dechlorinate 1,2-DCA to ethene, while the 1,1-dichloroethane reductive dehalogenase (DCA) targets the gene responsible for 1,1-DCA dechlorination in some strains of *Dehalobacter*. In addition to chloroform, chloroform reductase (CFR) has also been shown to be responsible for reductive dechlorination of 1,1,1-TCA [26].

Reductive Dechlorination - Chlorinated Methanes: Chloroform is a common co-contaminant at chlorinated solvent sites and can inhibit reductive dechlorination of chlorinated ethenes. Grostern et al. demonstrated that a *Dehalobacter* population was capable of reductive dechlorination of chloroform to produce dichloromethane [27]. The *cfrA* gene encodes the reductase which catalyzes this initial step in chloroform biodegradation [26]. Justicia-Leon et al. have since shown that dichloromethane can support growth of a distinct group of *Dehalobacter* strains via fermentation [28]. The *Dehalobacter* DCM assay targets the 16S rRNA gene of these strains.

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Reductive Dechlorination - Chlorinated Benzenes: Chlorinated benzenes are an important class of industrial solvents and chemical intermediates in the production of drugs, dyes, herbicides, and insecticides. The physical-chemical properties of chlorinated benzenes as well as susceptibility to biodegradation are functions of their degree of chlorination and the positions of chlorine substituents. Under anaerobic conditions, reductive dechlorination of higher chlorinated benzenes including hexachlorobenzene (HCB), pentachlorobenzene (PeCB), tetrachlorobenzene (TeCB) isomers, and trichlorobenzene (TCB) isomers has been well documented [29], although biodegradation of individual compounds and isomers varies between isolates. For example, *Dehalococcoides* strain CBDB1 reductively dechlorinats HCB, PeCB, all three TeCB isomers, 1,2,3-TCB, and 1,2,4-TCB [9]. *Dehalobium chlorocoercia* DF-1 has been shown to be capable of reductive dechlorination of HCB, PeCB, and 1,2,3,5-TeCB [31]. The dichlorobenzene (DCB) isomers and chlorobenzene (CB) were considered relatively recalcitrant under anaerobic conditions. However, new evidence has demonstrated reductive dechlorination of DCBs to CB and CB to benzene [32] with corresponding increases in concentrations of *Dehalobacter* spp. [33].

Reductive Dechlorination - Chlorinated Phenols: Pentachlorophenol (PCP) was one of the most widely used biocides in the U.S. and despite residential use restrictions, is still extensively used industrially as a wood preservative. Along with PCP, the tetrachlorophenol and trichlorophenol isomers were also used as fungicides in wood preserving formulations. 2,4-Dichlorophenol and 2,4,5-TCP were used as chemical intermediates in herbicide production (e.g. 2,4-D) and chlorophenols are known byproducts of chlorine bleaching in the pulp and paper industry. While the range of compounds utilized varies by strain, some *Dehalococcoides* isolates are capable of reductive dechlorination of PCP and other chlorinated phenols. For example, *Dehalococcoides* strain CBDB1 is capable of utilizing PCP, all three tetrach lorophenol (TeCP) congeners, all six trichlorophenol (TCP) congeners, and 2,3-dichlorophenol (2,3-DCP). PCP dechlorination by strain CBDB1 produces a mixture of 3,5-DCP, 3,4-DCP, 2,4-DCP, 3-CP, and 4-CP [34]. In the same study, however, *Dehalococcoides* strain 195 dechlorinated a more narrow spectrum of chlorophenols which included 2,3-DCP, 2,3,4-TCP, and 2,3,6-TCP, but no other TCPs or PCP. Similar to *Dehalococcoides*, some species and strains of *Desulfitobacterium* are capable of utilizing PCP and other chlorinated phenols. *Desulfitobacterium hafniense* PCP-1 is capable of reductive dechlorination of PCP to 3-CP [35]. However, the ability to biodegrade PCP is not universal among *Desulfitobacterium* isolates. *Desulfitobacterium* spp. strain PCE1 and *D. chlororespirans* strain Co23, for example, can utilize some TCP and DCP isomers, but not PCP for growth [2,36].

Reductive Dechlorination - Chlorinated Propanes: *Dehalogenimonas* is a recently described bacterial genus of the phylum Chloroflexi which also includes the well-known chloroethene-respiring *Dehalococcoides* [23]. The *Dehalogenimonas* isolates characterized to date are also halorespiring bacteria, but utilize a rather unique range of chlorinated compounds as electron acceptors including chlorinated propanes (1,2,3-TCP and 1,2-DCP) and a variety of other vicinally chlorinated alkanes including 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, and 1,2-dichloroethane [23].

Aerobic - Chlorinated Ethene Cometabolism: Under aerobic conditions, several different types of bacteria including methane-oxidizing bacteria (methanotrophs), and many benzene, toluene, ethylbenzene, xylene, and (BTEX)-utilizing bacteria can cometabolize or co-oxidize TCE, DCE, and vinyl chloride [37]. In general, cometabolism of chlorinated ethenes is mediated by monooxygenase enzymes with "relaxed" specificity that oxidize a primary (growth supporting) substrate (*e.g.* methane) and co-oxidize the chlorinated compound (*e.g.* TCE). QuantArray®-Chlor provides quantification of a suite of genes encoding oxygenase enzymes capable of co-oxidation of chlorinated ethenes including soluble methane monooxygenase (sMMO). Soluble methane monooxygenases co-oxidize a broad range of chlorinated compounds [38–41] including TCE, *cis*-DCE, and vinyl chloride. Furthermore, soluble methane monooxygenases are generally believed to support greater rates of aerobic cometabolism [40]. QuantArray®-Chlor also quantifies aromatic oxygenase genes encoding ring hydroxylating toluene monooxygenase genes (RMO, RDEG), toluene dioxygenase (TOD) and phenol hydroxylases (PHE) capable of TCE co-oxidation [42–46]. TCE or a degradation product has been shown to induce expression of toluene monooxygenases in some laboratory studies [43,47] raising the possibility of TCE cometabolism with an alternative (non-aromatic) growth substrate. Moreover, while a number of additional factors must be considered, recent research under ESTCP Project 201584 has shown positive correlations between concentrations of monooxygenase genes (soluble methane monooxygenase, ring hydroxylating monooxygenases, and phenol hydroxylase) and the rate of TCE degradation [48].

Aerobic - Chlorinated Ethane Cometabolism: While less widely studied than cometabolism of chlorinated ethenes, some chlorinated ethanes are also susceptible to co-oxidation. As mentioned previously, soluble methane monooxygenases (sMMO) exhibit very relaxed specificity. In laboratory studies, sMMO has been shown to co-oxidize a number of chlorinated ethanes including 1,1,1-TCA and 1,2-DCA [38,40].

Aerobic - Vinyl Chloride Cometabolism: Beginning in the early 1990s, numerous microcosm studies demonstrated

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aerobic oxidation of vinyl chloride under MNA conditions without the addition of exogenous primary substrates. Since then, strains of *Mycobacterium*, *Nocardioides*, *Pseudomonas*, *Ochrobactrum*, and *Ralstonia* species have been isolated which are capable of aerobic growth on both ethene and vinyl chloride (see Mattes et al. [49] for a review). The initial steps in the pathway are the monooxygenase (*etn*ABCD) catalyzed conversion of ethene and vinyl chloride to their respective epoxyalkanes (epoxyethane and chlorooxirane), followed by epoxyalkane:CoM transferase (*etn*E) mediated conjugation and breaking of the epoxide [50].

Aerobic - Chlorinated Benzenes: In general, chlorobenzenes with four or less chlorine groups are susceptible to aerobic biodegradation and can serve as growth-supporting substrates. Toluene dioxygenase (TOD) has a relatively relaxed substrate specificity and mediates the incorporation of both atoms of oxygen into the aromatic ring of benzene and substituted benzenes (toluene and chlorobenzene). Comparison of TOD levels in background and source zone samples from a CB-impacted site suggested that CBs promoted growth of TOD-containing bacteria [51]. In addition, aerobic biodegradation of some trichlorobenzene and even tetrachlorobenzene isomers is initiated by a group of related trichlorobenzene dioxygenase genes (TCBO). Finally, phenol hydroxylases catalyze the continued oxidation and in some cases, the initial oxidation of a variety of monoaromatic compounds. In an independent study, significant increases in numbers of bacteria containing PHE genes corresponded to increases in biodegradation of DCB isomers [51].

Aerobic - Chlorinated Methanes: Many aerobic methylotrophic bacteria, belonging to diverse genera (*Hyphomicrobium*, *Methylobacterium*, *Methylophilus*, *Pseudomonas*, *Paracoccus*, and *Alibacter*) have been isolated which are capable of utilizing dichloromethane (DCM) as a growth substrate. The DCM metabolic pathway in methylotrophic bacteria is initiated by a dichloromethane dehalogenase (DCMA) gene. DCMA is responsible for aerobic biodegradation of dichloromethane by methylotrophs by first producing formaldehyde which is then further oxidized [52].

As discussed in previous sections, soluble methane monooxygenase (sMMO) exhibits relaxed specificity and co-oxidizes a broad spectrum of chlorinated hydrocarbons. In addition to chlorinated ethenes, sMMO has been shown to co-oxidize chloroform in laboratory studies [38,41].

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October 7, 2024

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2409-255

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on September 20, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

Case Narrative

Samples were collected on September 19, 2024 and received by the laboratory on September 20, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW5A-240919	09-255-01	Water	9-19-24	9-20-24	
FL358-MW5B-240919	09-255-02	Water	9-19-24	9-20-24	
FL358-MW6-240919	09-255-03	Water	9-19-24	9-20-24	
FL358-MW11-240919	09-255-04	Water	9-19-24	9-20-24	
FL358-MW15-240919	09-255-05	Water	9-19-24	9-20-24	
FL358-MW18-240919	09-255-06	Water	9-19-24	9-20-24	
FL358-DUP-240919	09-255-07	Water	9-19-24	9-20-24	
FL358-RB1-240919	09-255-08	Water	9-19-24	9-20-24	
FL358-TB1-240919	09-255-09	Water	---	9-20-24	
FL358-MW19-240919	09-255-10	Water	9-19-24	9-20-24	
FL358-MW22-240919	09-255-11	Water	9-19-24	9-20-24	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240919**					
Laboratory ID:	09-255-01					
Vinyl Chloride	6.4	2.0	EPA 8260D	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	80	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	120	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	82	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-MW5B-240919**					
Laboratory ID:	09-255-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-MW6-240919**					
Laboratory ID:	09-255-03					
Vinyl Chloride (SIM)	0.99	0.20	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	76	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	70	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	2.9	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW11-240919**					
Laboratory ID:	09-255-04					
Vinyl Chloride (SIM)	0.85	0.20	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	2.4	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-MW15-240919**					
Laboratory ID:	09-255-05					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-MW18-240919**					
Laboratory ID:	09-255-06					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-DUP-240919**					
Laboratory ID:	09-255-07					
Vinyl Chloride (SIM)	1.0	0.20	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	77	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	71	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	2.8	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-RB1-240919**					
Laboratory ID:	09-255-08					
Vinyl Chloride	ND	0.20	EPA 8260D	9-23-24	9-23-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-TB1-240919**					
Laboratory ID:	09-255-09					
Vinyl Chloride	ND	0.20	EPA 8260D	9-23-24	9-23-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*102*	*78-117*				

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW19-240919**					
Laboratory ID:	09-255-10					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-MW22-240919**					
Laboratory ID:	09-255-11					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*68-133*				
Toluene-d8	*97*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240919**					
Laboratory ID:	09-255-01					
Methane	**1600**	11	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*93*	*50-150*				
Client ID:	**FL358-MW5B-240919**					
Laboratory ID:	09-255-02					
Methane	**420**	3.3	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*90*	*50-150*				
Client ID:	**FL358-MW6-240919**					
Laboratory ID:	09-255-03					
Methane	**830**	5.5	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*96*	*50-150*				
Client ID:	**FL358-MW11-240919**					
Laboratory ID:	09-255-04					
Methane	**580**	5.5	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*96*	*50-150*				

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW15-240919**					
Laboratory ID:	09-255-05					
Methane	**920**	8.3	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*100*	*50-150*				
Client ID:	**FL358-MW18-240919**					
Laboratory ID:	09-255-06					
Methane	**5800**	55	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**0.81**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*66*	*50-150*				
Client ID:	**FL358-DUP-240919**					
Laboratory ID:	09-255-07					
Methane	**1000**	5.5	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*92*	*50-150*				
Client ID:	**FL358-MW19-240919**					
Laboratory ID:	09-255-10					
Methane	**2300**	28	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**0.64**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*93*	*50-150*				

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW22-240919**					
Laboratory ID:	09-255-11					
Methane	**3900**	28	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*67*	*50-150*				

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240919**					
Laboratory ID:	09-255-01					
Total Organic Carbon	**8.0**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW5B-240919**					
Laboratory ID:	09-255-02					
Total Organic Carbon	**6.0**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW6-240919**					
Laboratory ID:	09-255-03					
Total Organic Carbon	**7.6**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW11-240919**					
Laboratory ID:	09-255-04					
Total Organic Carbon	**18**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW15-240919**					
Laboratory ID:	09-255-05					
Total Organic Carbon	**19**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW18-240919**					
Laboratory ID:	09-255-06					
Total Organic Carbon	**30**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-DUP-240919**					
Laboratory ID:	09-255-07					
Total Organic Carbon	**7.6**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW19-240919**					
Laboratory ID:	09-255-10					
Total Organic Carbon	**16**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW22-240919**					
Laboratory ID:	09-255-11					
Total Organic Carbon	**36**	1.0	SM 5310B	9-23-24	9-23-24	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240919**					
Laboratory ID:	09-255-01					
Ammonia	**0.073**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	
Client ID:	**FL358-MW5B-240919**					
Laboratory ID:	09-255-02					
Ammonia	**0.059**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	
Client ID:	**FL358-MW6-240919**					
Laboratory ID:	09-255-03					
Ammonia	**2.7**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	
Client ID:	**FL358-MW11-240919**					
Laboratory ID:	09-255-04					
Ammonia	**ND**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	
Client ID:	**FL358-MW15-240919**					
Laboratory ID:	09-255-05					
Ammonia	**0.070**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	
Client ID:	**FL358-MW18-240919**					
Laboratory ID:	09-255-06					
Ammonia	**0.83**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	
Client ID:	**FL358-DUP-240919**					
Laboratory ID:	09-255-07					
Ammonia	**ND**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	
Client ID:	**FL358-MW19-240919**					
Laboratory ID:	09-255-10					
Ammonia	**0.49**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	
Client ID:	**FL358-MW22-240919**					
Laboratory ID:	09-255-11					
Ammonia	**4.2**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240919**					
Laboratory ID:	09-255-01					
Nitrate	**ND**	0.050	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW5B-240919**					
Laboratory ID:	09-255-02					
Nitrate	**0.075**	0.050	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW6-240919**					
Laboratory ID:	09-255-03					
Nitrate	**0.053**	0.050	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW11-240919**					
Laboratory ID:	09-255-04					
Nitrate	**ND**	0.050	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW15-240919**					
Laboratory ID:	09-255-05					
Nitrate	**ND**	0.050	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW18-240919**					
Laboratory ID:	09-255-06					
Nitrate	**0.18**	0.050	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-DUP-240919**					
Laboratory ID:	09-255-07					
Nitrate	**ND**	0.050	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW19-240919**					
Laboratory ID:	09-255-10					
Nitrate	**ND**	0.050	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW22-240919**					
Laboratory ID:	09-255-11					
Nitrate	**0.11**	0.050	EPA 353.2	9-20-24	9-20-24	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240919**					
Laboratory ID:	09-255-01					
Nitrite	**ND**	0.020	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW5B-240919**					
Laboratory ID:	09-255-02					
Nitrite	**ND**	0.020	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW6-240919**					
Laboratory ID:	09-255-03					
Nitrite	**ND**	0.020	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW11-240919**					
Laboratory ID:	09-255-04					
Nitrite	**0.055**	0.020	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW15-240919**					
Laboratory ID:	09-255-05					
Nitrite	**0.077**	0.020	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW18-240919**					
Laboratory ID:	09-255-06					
Nitrite	**ND**	0.020	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-DUP-240919**					
Laboratory ID:	09-255-07					
Nitrite	**ND**	0.020	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW19-240919**					
Laboratory ID:	09-255-10					
Nitrite	**0.091**	0.020	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW22-240919**					
Laboratory ID:	09-255-11					
Nitrite	**0.055**	0.020	EPA 353.2	9-20-24	9-20-24	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240919**					
Laboratory ID:	09-255-01					
Sulfate	**5.6**	5.0	ASTM D516-11	10-4-24	10-4-24	
Client ID:	**FL358-MW5B-240919**					
Laboratory ID:	09-255-02					
Sulfate	**11**	5.0	ASTM D516-11	10-4-24	10-4-24	
Client ID:	**FL358-MW6-240919**					
Laboratory ID:	09-255-03					
Sulfate	**7.5**	5.0	ASTM D516-11	10-4-24	10-4-24	
Client ID:	**FL358-MW11-240919**					
Laboratory ID:	09-255-04					
Sulfate	**12**	5.0	ASTM D516-11	10-4-24	10-4-24	
Client ID:	**FL358-MW15-240919**					
Laboratory ID:	09-255-05					
Sulfate	**ND**	5.0	ASTM D516-11	10-4-24	10-4-24	
Client ID:	**FL358-MW18-240919**					
Laboratory ID:	09-255-06					
Sulfate	**ND**	5.0	ASTM D516-11	10-4-24	10-4-24	
Client ID:	**FL358-DUP-240919**					
Laboratory ID:	09-255-07					
Sulfate	**6.8**	5.0	ASTM D516-11	10-4-24	10-4-24	
Client ID:	**FL358-MW19-240919**					
Laboratory ID:	09-255-10					
Sulfate	**5.3**	5.0	ASTM D516-11	10-4-24	10-4-24	
Client ID:	**FL358-MW22-240919**					
Laboratory ID:	09-255-11					
Sulfate	**6.8**	5.0	ASTM D516-11	10-4-24	10-4-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240919**					
Laboratory ID:	09-255-01					
Chloride	**23**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW5B-240919**					
Laboratory ID:	09-255-02					
Chloride	**24**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW6-240919**					
Laboratory ID:	09-255-03					
Chloride	**23**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW11-240919**					
Laboratory ID:	09-255-04					
Chloride	**21**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW15-240919**					
Laboratory ID:	09-255-05					
Chloride	**78**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW18-240919**					
Laboratory ID:	09-255-06					
Chloride	**20**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-DUP-240919**					
Laboratory ID:	09-255-07					
Chloride	**23**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW19-240919**					
Laboratory ID:	09-255-10					
Chloride	**13**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW22-240919**					
Laboratory ID:	09-255-11					
Chloride	**44**	2.0	SM 4500-Cl E	9-23-24	9-23-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240919**					
Laboratory ID:	09-255-01					
Iron	**2000**	56	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW5B-240919**					
Laboratory ID:	09-255-02					
Iron	**94**	56	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW6-240919**					
Laboratory ID:	09-255-03					
Iron	**760**	56	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW11-240919**					
Laboratory ID:	09-255-04					
Iron	**36000**	560	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW15-240919**					
Laboratory ID:	09-255-05					
Iron	**8600**	56	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW18-240919**					
Laboratory ID:	09-255-06					
Iron	**53000**	560	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-DUP-240919**					
Laboratory ID:	09-255-07					
Iron	**780**	56	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW19-240919**					
Laboratory ID:	09-255-10					
Iron	**27000**	56	EPA 6010D	9-26-24	9-26-24	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW22-240919**					
Laboratory ID:	09-255-11					
Iron	**54000**	560	EPA 6010D	9-26-24	9-26-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*68-133*				
Toluene-d8	*97*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0923W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**8.98**	**8.72**	10.0	10.0	90	87	67-130	3	15	
1,1-Dichloroethene	**10.1**	**9.61**	10.0	10.0	101	96	74-125	5	15	
(trans) 1,2-Dichloroethene	**9.98**	**9.80**	10.0	10.0	100	98	77-125	2	15	
(cis) 1,2-Dichloroethene	**10.1**	**9.79**	10.0	10.0	101	98	78-130	3	15	
Trichloroethene	**11.3**	**11.1**	10.0	10.0	113	111	80-126	2	15	
Tetrachloroethene	**11.0**	**11.1**	10.0	10.0	110	111	80-125	1	15	
Surrogate:										
Dibromofluoromethane					*89*	*88*	*68-133*			
Toluene-d8					*100*	*99*	*79-123*			
4-Bromofluorobenzene					*105*	*105*	*78-117*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Methane	**ND**	0.55	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*98*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0926W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**41.4**	**40.3**	44.2	44.2	94	91	75-125	3	25	
Ethane	**75.5**	**74.9**	83.2	83.2	91	90	75-125	1	25	
Ethene	**75.5**	**77.0**	77.7	77.7	97	99	75-125	2	25	
Acetylene	**53.3**	**47.5**	72.0	72.0	74	66	60-140	12	25	
Surrogate:										
1-Butene					*96*	*100*	*50-150*			

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-23-24	9-23-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-217-01								
	ORIG	DUP							
Total Organic Carbon	**12.2**	**12.1**	NA	NA	NA	NA	1	11	
MATRIX SPIKE									
Laboratory ID:	09-217-01								
	MS		MS		MS				
Total Organic Carbon	**20.8**		10.0	12.2	86	85-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0923W1								
	SB		SB		SB				
Total Organic Carbon	**10.2**		10.0	NA	102	79-120	NA	NA	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1007W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-255-01								
	ORIG	DUP							
Ammonia	**0.0726**	**0.0708**	NA	NA	NA	NA	3	15	
MATRIX SPIKE									
Laboratory ID:	09-255-01								
	MS		MS		MS				
Ammonia	**4.37**		5.00	0.0726	86	75-111	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1007W1								
	SB		SB		SB				
Ammonia	**4.50**		5.00	NA	90	81-110	NA	NA	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
Nitrate	**ND**	0.050	EPA 353.2	9-20-24	9-20-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-255-01								
	ORIG	DUP							
Nitrate	**ND**	**ND**	NA	NA	NA	NA	NA	22	
MATRIX SPIKE									
Laboratory ID:	09-255-01								
	MS		MS		MS				
Nitrate	**2.03**		2.00	ND	102	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0920W1								
	SB		SB		SB				
Nitrate	**1.84**		2.00	NA	92	85-117	NA	NA	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
Nitrite	**ND**	0.020	EPA 353.2	9-20-24	9-20-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-255-01								
	ORIG	DUP							
Nitrite	**ND**	**ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE									
Laboratory ID:	09-255-01								
	MS		MS		MS				
Nitrite	**0.260**		0.250	ND	104	85-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0920W1								
	SB		SB		SB				
Nitrite	**0.268**		0.250	NA	107	91-116	NA	NA	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1004W1					
Sulfate	**ND**	5.0	ASTM D516-11	10-4-24	10-4-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-255-01								
	ORIG	DUP							
Sulfate	**5.58**	**5.27**	NA	NA	NA	NA	6	11	
MATRIX SPIKE									
Laboratory ID:	09-255-01								
	MS		MS		MS				
Sulfate	**17.0**		10.0	5.58	114	69-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1004W1								
	SB		SB		SB				
Sulfate	**8.98**		10.0	NA	90	81-106	NA	NA	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	**ND**	2.0	SM 4500-Cl E	9-23-24	9-23-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-217-01								
	ORIG	DUP							
Chloride	**21.7**	**22.4**	NA	NA	NA	NA	3	21	
MATRIX SPIKE									
Laboratory ID:	09-217-01								
	MS		MS		MS				
Chloride	**78.0**		50.0	21.7	113	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0923W1								
	SB		SB		SB				
Chloride	**49.6**		50.0	NA	99	77-115	NA	NA	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-255
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926WM2					
Iron	**ND**	56	EPA 6010D	9-26-24	9-26-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-215-02										
	ORIG	DUP									
Iron	**82.0**	**75.8**	NA	NA		NA		NA	8	20	
MATRIX SPIKES											
Laboratory ID:	09-215-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**23200**	**24300**	22200	22200	82.0	**104**	**109**	75-125	5	20	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

October 01, 2024

David Baumeister
14648 NE 95th ST
Redmond, WA 98052

Project: Onsite (Chem)
Project Number: 4082-039-03
Project Manager: David Baumeister
RE: Onsite (Chem)

Enclosed are the results of analyses for samples received by our laboratory on 9/20/2024.
Please feel free to contact me with any questions or considerations regarding this report.

Sincerely,

ElementStationManager For Aaron Young
President

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/20/24
Date Reported: 10/01/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A24I0381-01	FL358-MW5A-240919	Water		09/19/2024	09/20/2024
A24I0381-02	FL358-MW5B-240919	Water		09/19/2024	09/20/2024
A24I0381-03	FL358-MW6-240919	Water		09/19/2024	09/20/2024
A24I0381-04	FL358-MW11-240919	Water	S	09/19/2024	09/20/2024
A24I0381-05	FL358-MW15-240919	Water	S	09/19/2024	09/20/2024
A24I0381-06	FL358-MW18-240919	Water	S	09/19/2024	09/20/2024
A24I0381-07	FL358-DUP-240919	Water		09/19/2024	09/20/2024
A24I0381-08	FL358-MW19-240919	Water	S	09/19/2024	09/20/2024
A24I0381-09	FL358-MW22-240919	Water	S	09/19/2024	09/20/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
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Kirkland, WA
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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 09/20/24
Date Reported: 10/01/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

AMTEST Identification Number: A24I0381-01
Client Identification: FL358-MW5A-240919
Sampling Date: 09/19/24 11:40

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	2	mg/L		2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0381-02
Client Identification: FL358-MW5B-240919
Sampling Date: 09/19/24 09:40

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	2	mg/L		2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0381-03
Client Identification: FL358-MW6-240919
Sampling Date: 09/19/24 14:10

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	ND	mg/L	U	2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0381-04
Client Identification: FL358-MW11-240919
Sampling Date: 09/19/24 14:20

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	6	mg/L		2	SM 5210B_2011	JM	09/20/2024

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 09/20/24
Date Reported: 10/01/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

AMTEST Identification Number: A24I0381-05
Client Identification: FL358-MW15-240919
Sampling Date: 09/19/24 10:50

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	5	mg/L		2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0381-06
Client Identification: FL358-MW18-240919
Sampling Date: 09/19/24 12:45

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	19	mg/L		2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0381-07
Client Identification: FL358-DUP-240919
Sampling Date: 09/19/24 12:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	2	mg/L		2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0381-08
Client Identification: FL358-MW19-240919
Sampling Date: 09/19/24 11:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	15	mg/L		2	SM 5210B_2011	JM	09/20/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/20/24
Date Reported: 10/01/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

AMTEST Identification Number: A24I0381-09
Client Identification: FL358-MW22-240919
Sampling Date: 09/19/24 15:20

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	13	mg/L		2	SM 5210B_2011	JM	09/20/2024

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(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

Date Received: 09/20/24
Date Reported: 10/01/24

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBJ0004 - No Prep - WetChem										
Calibration Blank (BBJ0004-CCB1)					Prepared & Analyzed: 09/20/24					
Biological Oxygen Demand (BOD)	0	U		mg/L						
Duplicate (BBJ0004-DUP2)		**Source: A24I0358-01**			Prepared & Analyzed: 09/20/24					
Biological Oxygen Demand (BOD)	ND	U	2	mg/L		ND				35.5

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(425) 885-1664
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ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/20/24
Date Reported: 10/01/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

Notes and Definitions

Item	Definition
U	The compound was analyzed for but was not detected (Non-detect) at or above the MRL/MDL.
S	The sample did not meet the method specification of 2 ppm depletion.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

A24I0381

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 09-255

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other:

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW5A-240919	9/19/24	11:40	W	1	BOD 5
02	FL358-MW5B-240919	9/19/24	9:40	W	1	BOD 5
03	FL358-MW6-240919	9/19/24	14:10	W	1	BOD 5
04	FL358-MW11-240919	9/19/24	14:20	W	1	BOD 5
05	FL358-MW15-240919	9/19/24	10:50	W	1	BOD 5
06	FL358-MW-18-240919	9/19/24	12:45	W	1	BOD 5
07	FL358-DUP-240919	9/19/24	12:00	W	1	BOD 5
08	FL358-MW19-240919	9/19/24	11:00	W	1	BOD 5
09	FL358-MW22-240919	9/19/24	15:20	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	9/20/24	2:10 pm	
Received by: IL	AmTest	9/20/24	14:10	10.4°C
Relinquished by:				**EDDs**
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: Brittany Waite and Tricia DeOme
Sampled by: James Kohn &Divya Khandelwal

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☑ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 09-255

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW5A-240919	9/19/24	1140	W	10																		X		X	X	
2	FL358-MW5B-240919	9/19/24	0940	W	10																		X		X	X	
3	FL358-MW 6-240919	9/19/24	1410	W	10																		X		X	X	
4	FL358-MW 4-240919	9/19/24	1420	W	10																		X		X	X	
5	FL358-MW15-240919	9/19/24	1050	W	10																		X		X	X	
6	FL358-MW 16-240919	9/19/24	1245	W	10																		X		X	X	
7	FL358-DUP-240919	9/19/24	1200	W	10																		X		X	X	
8	FL358-RB2-240919	9/19/24	1520	W	10																		X				
9	FL358-TB2-240919	9/19/24	--	W	3																		X				

	Signature	Company	Date	Time
Relinquished		GEI	9/20/24	0935
Received	Van	Spkg	9/20/24	0935
Relinquished	Van	Spkg	9/20/24	1150
Received		OSE	9/20/24	1150
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

Page 1 of 2

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: Brittany Waite and Tricia DeOme
Sampled by: James Kohn &Divya Khandelwal

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☑ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 09-255

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
10	FL358-MW19-240919	9/19/24	1100	W	10
11	FL358-MW22-240919	9/19/24	1320	W	10
	FL358-MW	9/ /24		W	
	FL358-MW	9/ /24		W	
	FL358-MW	9/ /24		W	
	FL358-MW	9/ /24		W	
	FL358-DUP	9/ /24		W	
	FL358-RB	9/ /24		W	
	FL358-TB	9/ /24	--	W	3

Analysis	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
NWTPH-HCID					
NWTPH-Gx/BTEX					
NWTPH-Gx					
NWTPH-Dx (☐ Acid / SG Clean-up)					
Volatiles 8260C	X		X	X	
Halogenated Volatiles 8260C	X		X	X	
EDB EPA 8011 (Waters Only)	X		X	X	
Semivolatiles 8270D/SIM (with low-level PAHs)	X		X	X	
PAHs 8270D/SIM (low-level)	X		X	X	
PCBs 8082A	X		X	X	
Organochlorine Pesticides 8081B	X		X	X	
Organophosphorus Pesticides 8270D/SIM	X		X	X	
Chlorinated Acid Herbicides 8151A	X		X	X	
Total RCRA Metals					
Total MTCA Metals					
TCLP Metals					
HEM (oil and grease) 1664A					

	Signature	Company	Date	Time
Relinquished		GEI	9/20/24	0945
Received	Van	Spdy	9/20/24	0935
Relinquished	Van	Spdy	9/20/24	1150
Received		SDE	9/20/24	1150
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 7, 2024

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2409-257

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on September 20, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

Case Narrative

Samples were collected on September 20, 2024 and received by the laboratory on September 20, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW17-240920	09-257-01	Water	9-20-24	9-20-24	
FL358-MW20-240920	09-257-02	Water	9-20-24	9-20-24	
FL358-MW21-240920	09-257-03	Water	9-20-24	9-20-24	
FL358-RB1-240920	09-257-04	Water	9-20-24	9-20-24	
FL358-TB1-240920	09-257-05	Water	---	9-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW17-240920**					
Laboratory ID:	09-257-01					
Vinyl Chloride (SIM)	0.52	0.20	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-MW20-240920**					
Laboratory ID:	09-257-02					
Vinyl Chloride (SIM)	0.96	0.20	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-MW21-240920**					
Laboratory ID:	09-257-03					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-RB1-240920**					
Laboratory ID:	09-257-04					
Vinyl Chloride	ND	0.20	EPA 8260D	9-23-24	9-23-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-TB1-240920**					
Laboratory ID:	09-257-05					
Vinyl Chloride	ND	0.20	EPA 8260D	9-23-24	9-23-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW17-240920**					
Laboratory ID:	09-257-01					
Methane	**2800**	28	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*83*	*50-150*				
Client ID:	**FL358-MW20-240920**					
Laboratory ID:	09-257-02					
Methane	**1300**	11	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*83*	*50-150*				
Client ID:	**FL358-MW21-240920**					
Laboratory ID:	09-257-03					
Methane	**3800**	55	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*79*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW17-240920**					
Laboratory ID:	09-257-01					
Total Organic Carbon	**22**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW20-240920**					
Laboratory ID:	09-257-02					
Total Organic Carbon	**16**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW21-240920**					
Laboratory ID:	09-257-03					
Total Organic Carbon	**19**	1.0	SM 5310B	9-23-24	9-23-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW17-240920**					
Laboratory ID:	09-257-01					
Ammonia	**1.1**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	
Client ID:	**FL358-MW20-240920**					
Laboratory ID:	09-257-02					
Ammonia	**1.1**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	
Client ID:	**FL358-MW21-240920**					
Laboratory ID:	09-257-03					
Ammonia	**1.6**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW17-240920**					
Laboratory ID:	09-257-01					
Nitrate	**0.13**	0.050	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW20-240920**					
Laboratory ID:	09-257-02					
Nitrate	**ND**	0.050	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW21-240920**					
Laboratory ID:	09-257-03					
Nitrate	**0.13**	0.050	EPA 353.2	9-20-24	9-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW17-240920**					
Laboratory ID:	09-257-01					
Nitrite	**ND**	0.020	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW20-240920**					
Laboratory ID:	09-257-02					
Nitrite	**ND**	0.020	EPA 353.2	9-20-24	9-20-24	
Client ID:	**FL358-MW21-240920**					
Laboratory ID:	09-257-03					
Nitrite	**0.021**	0.020	EPA 353.2	9-20-24	9-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW17-240920**					
Laboratory ID:	09-257-01					
Sulfate	**ND**	5.0	ASTM D516-11	10-4-24	10-4-24	
Client ID:	**FL358-MW20-240920**					
Laboratory ID:	09-257-02					
Sulfate	**9.6**	5.0	ASTM D516-11	10-4-24	10-4-24	
Client ID:	**FL358-MW21-240920**					
Laboratory ID:	09-257-03					
Sulfate	**ND**	5.0	ASTM D516-11	10-4-24	10-4-24	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW17-240920**					
Laboratory ID:	09-257-01					
Chloride	**31**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW20-240920**					
Laboratory ID:	09-257-02					
Chloride	**23**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW21-240920**					
Laboratory ID:	09-257-03					
Chloride	**19**	2.0	SM 4500-Cl E	9-23-24	9-23-24	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW17-240920**					
Laboratory ID:	09-257-01					
Iron	**32000**	560	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW20-240920**					
Laboratory ID:	09-257-02					
Iron	**19000**	56	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW21-240920**					
Laboratory ID:	09-257-03					
Iron	**47000**	560	EPA 6010D	9-26-24	9-26-24	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	9-23-24	9-23-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Trichloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-23-24	9-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*68-133*				
Toluene-d8	*97*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0923W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**8.98**	**8.72**	10.0	10.0	90	87	67-130	3	15	
1,1-Dichloroethene	**10.1**	**9.61**	10.0	10.0	101	96	74-125	5	15	
(trans) 1,2-Dichloroethene	**9.98**	**9.80**	10.0	10.0	100	98	77-125	2	15	
(cis) 1,2-Dichloroethene	**10.1**	**9.79**	10.0	10.0	101	98	78-130	3	15	
Trichloroethene	**11.3**	**11.1**	10.0	10.0	113	111	80-126	2	15	
Tetrachloroethene	**11.0**	**11.1**	10.0	10.0	110	111	80-125	1	15	
Surrogate:										
Dibromofluoromethane					*89*	*88*	*68-133*			
Toluene-d8					*100*	*99*	*79-123*			
4-Bromofluorobenzene					*105*	*105*	*78-117*			

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Methane	**ND**	0.55	RSK 175	9-26-24	9-26-24	
Ethane	**ND**	0.56	RSK 175	9-26-24	9-26-24	
Ethene	**ND**	0.58	RSK 175	9-26-24	9-26-24	
Acetylene	**ND**	3.1	RSK 175	9-26-24	9-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*98*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0926W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**41.4**	**40.3**	44.2	44.2	94	91	75-125	3	25	
Ethane	**75.5**	**74.9**	83.2	83.2	91	90	75-125	1	25	
Ethene	**75.5**	**77.0**	77.7	77.7	97	99	75-125	2	25	
Acetylene	**53.3**	**47.5**	72.0	72.0	74	66	60-140	12	25	
Surrogate:										
1-Butene					*96*	*100*	*50-150*			

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-23-24	9-23-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-217-01								
	ORIG	DUP							
Total Organic Carbon	**12.2**	**12.1**	NA	NA	NA	NA	1	11	
MATRIX SPIKE									
Laboratory ID:	09-217-01								
	MS		MS		MS				
Total Organic Carbon	**20.8**		10.0	12.2	86	85-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0923W1								
	SB		SB		SB				
Total Organic Carbon	**10.2**		10.0	NA	102	79-120	NA	NA	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1007W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	10-7-24	10-7-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-255-01								
	ORIG	DUP							
Ammonia	**0.0726**	**0.0708**	NA	NA	NA	NA	3	15	
MATRIX SPIKE									
Laboratory ID:	09-255-01								
	MS		MS		MS				
Ammonia	**4.37**		5.00	0.0726	86	75-111	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1007W1								
	SB		SB		SB				
Ammonia	**4.50**		5.00	NA	90	81-110	NA	NA	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
Nitrate	**ND**	0.050	EPA 353.2	9-20-24	9-20-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-255-01								
	ORIG	DUP							
Nitrate	**ND**	**ND**	NA	NA	NA	NA	NA	22	
MATRIX SPIKE									
Laboratory ID:	09-255-01								
	MS		MS		MS				
Nitrate	**2.03**		2.00	ND	102	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0920W1								
	SB		SB		SB				
Nitrate	**1.84**		2.00	NA	92	85-117	NA	NA	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
Nitrite	**ND**	0.020	EPA 353.2	9-20-24	9-20-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-255-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	09-255-01							
	MS	MS		MS				
Nitrite	**0.260**	0.250	ND	104	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0920W1							
	SB	SB		SB				
Nitrite	**0.268**	0.250	NA	107	91-116	NA	NA	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1004W1					
Sulfate	**ND**	5.0	ASTM D516-11	10-4-24	10-4-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-255-01							
	ORIG DUP							
Sulfate	**5.58** **5.27**	NA	NA	NA	NA	6	11	
MATRIX SPIKE								
Laboratory ID:	09-255-01							
	MS	MS		MS				
Sulfate	**17.0**	10.0	5.58	114	69-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1004W1							
	SB	SB		SB				
Sulfate	**8.98**	10.0	NA	90	81-106	NA	NA	

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Date of Report: October 7, 2024
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Laboratory Reference: 2409-257
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	**ND**	2.0	SM 4500-Cl E	9-23-24	9-23-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-257-01								
	ORIG	DUP							
Chloride	**30.9**	**32.2**	NA	NA	NA	NA	4	21	
MATRIX SPIKE									
Laboratory ID:	09-257-01								
	MS		MS		MS				
Chloride	**86.7**		50.0	30.9	112	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0923W1								
	SB		SB		SB				
Chloride	**50.3**		50.0	NA	101	77-115	NA	NA	

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Date of Report: October 7, 2024
Samples Submitted: September 20, 2024
Laboratory Reference: 2409-257
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926WM1					
Iron	**ND**	56	EPA 6010D	9-26-24	9-26-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-267-01										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-267-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22800**	**23700**	22200	22200	ND	**103**	**107**	75-125	4	20	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

October 01, 2024

David Baumeister
14648 NE 95th ST
Redmond, WA 98052

Project: Onsite (Chem)
Project Number: 4082-039-03
Project Manager: David Baumeister
RE: Onsite (Chem)

Enclosed are the results of analyses for samples received by our laboratory on 9/20/2024.
Please feel free to contact me with any questions or considerations regarding this report.

Sincerely,

ElementStationManager For Aaron Young
President

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/20/24
Date Reported: 10/01/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A24I0382-01	FL358-MW17-240920	Water	P	09/20/2024	09/20/2024
A24I0382-02	FL358-MW20-240920	Water		09/20/2024	09/20/2024
A24I0382-03	FL358-MW21-240920	Water	P	09/20/2024	09/20/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/20/24
Date Reported: 10/01/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

AMTEST Identification Number: A24I0382-01
Client Identification: FL358-MW17-240920
Sampling Date: 09/20/24 10:50

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	12	mg/L		2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0382-02
Client Identification: FL358-MW20-240920
Sampling Date: 09/20/24 10:30

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	6	mg/L		2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0382-03
Client Identification: FL358-MW21-240920
Sampling Date: 09/20/24 11:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	12	mg/L		2	SM 5210B_2011	JM	09/20/2024

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

Date Received: 09/20/24
Date Reported: 10/01/24

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBJ0004 - No Prep - WetChem										
Calibration Blank (BBJ0004-CCB1)					Prepared & Analyzed: 09/20/24					
Biological Oxygen Demand (BOD)	0	U		mg/L						
Duplicate (BBJ0004-DUP2)		**Source: A24I0358-01**			Prepared & Analyzed: 09/20/24					
Biological Oxygen Demand (BOD)	ND	U	2	mg/L		ND				35.5

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ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/20/24
Date Reported: 10/01/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

Notes and Definitions

Item	Definition
P	Oxygen depletion exceeded method specification. Sample was diluted.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

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A24I0382

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 09-257

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other:

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW17-240920	9/20/24	10:50	W	1	BOD 5
02	FL358-MW20-240920	9/20/24	10:30	W	1	BOD 5
03	FL358-MW21-240920	9/20/24	11:00	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	9/20/24	2:10 PM	
Received by: IL	AmTest	9/20/24	14:00	10.4°C
Relinquished by:				
Received by:				**EDDs**
Relinquished by:				
Received by:				

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: Brittany Waite and Tricia DeOme
Sampled by: James Kohn &Divya Khandelwal

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-257

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW 17-240920	9/20/24	1050	W	10																		X		X	X	
2	FL358-MW 20-240920	9/20/24	1030	W	10																		X		X	X	
3	FL358-MW 21-240920	9/20/24	1100	W	10																		X		X	X	
	~~FL358-MW~~	9/ /24		W																			X		X	X	
	~~FL358-MW~~	9/ /24		W																			X		X	X	
	~~FL358-MW~~	9/ /24		W																			X		X	X	
	~~FL358-DUP~~	9/ /24		W																			X		X	X	
4	FL358-RB 1-240920	9/20/24	1210	W	3																		X				
5	FL358-TB 1-240920	9/20/24	--	W	3																		X				

	Signature	Company	Date	Time
Relinquished		GEI	9/20/24	1325
Received		CORE	9/20/24	1325
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 3, 2024

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2409-240

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on September 19, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

Case Narrative

Samples were collected on September 18, 2024 and received by the laboratory on September 19, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW8-240818	09-240-01	Water	9-18-24	9-19-24	
FL358-MW12-240818	09-240-02	Water	9-18-24	9-19-24	
FL358-MW13-240818	09-240-03	Water	9-18-24	9-19-24	
FL358-MW14-240818	09-240-04	Water	9-18-24	9-19-24	
FL358-MW16-240818	09-240-05	Water	9-18-24	9-19-24	
FL358-MW7-240818	09-240-06	Water	9-18-24	9-19-24	
FL358-RB1-240818	09-240-07	Water	9-18-24	9-19-24	
FL358-TB1-240818	09-240-08	Water	---	9-19-24	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-240918**					
Laboratory ID:	09-240-01					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	9-20-24	9-20-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-MW12-240918**					
Laboratory ID:	09-240-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	9-20-24	9-20-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Client ID:	**FL358-MW13-240918**					
Laboratory ID:	09-240-03					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	9-20-24	9-20-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	2.2	2.0	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	3.0	2.0	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW14-240918**					
Laboratory ID:	09-240-04					
Vinyl Chloride	2.4	2.0	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	7.8	2.0	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-MW16-240918**					
Laboratory ID:	09-240-05					
Vinyl Chloride	5.8	2.0	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	130	2.0	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	43	2.0	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	39	2.0	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Client ID:	**FL358-MW7-240918**					
Laboratory ID:	09-240-06					
Vinyl Chloride	2.7	2.0	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	2.2	2.0	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	2.0	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-RB1-240918**					
Laboratory ID:	09-240-07					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*68-133*				
Toluene-d8	*97*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Client ID:	**FL358-TB1-240918**					
Laboratory ID:	09-240-08					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*85*	*68-133*				
Toluene-d8	*97*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-240918**					
Laboratory ID:	09-240-01					
Methane	**250**	2.2	RSK 175	9-24-24	9-24-24	
Ethane	**ND**	0.56	RSK 175	9-24-24	9-24-24	
Ethene	**ND**	0.58	RSK 175	9-24-24	9-24-24	
Acetylene	**ND**	3.1	RSK 175	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*90*	*50-150*				
Client ID:	**FL358-MW12-240918**					
Laboratory ID:	09-240-02					
Methane	**3100**	28	RSK 175	9-24-24	9-24-24	
Ethane	**ND**	0.56	RSK 175	9-24-24	9-24-24	
Ethene	**ND**	0.58	RSK 175	9-24-24	9-24-24	
Acetylene	**ND**	3.1	RSK 175	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*78*	*50-150*				
Client ID:	**FL358-MW13-240918**					
Laboratory ID:	09-240-03					
Methane	**240**	2.2	RSK 175	9-24-24	9-24-24	
Ethane	**ND**	0.56	RSK 175	9-24-24	9-24-24	
Ethene	**ND**	0.58	RSK 175	9-24-24	9-24-24	
Acetylene	**ND**	3.1	RSK 175	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*82*	*50-150*				
Client ID:	**FL358-MW14-240918**					
Laboratory ID:	09-240-04					
Methane	**440**	3.3	RSK 175	9-24-24	9-24-24	
Ethane	**ND**	0.56	RSK 175	9-24-24	9-24-24	
Ethene	**ND**	0.58	RSK 175	9-24-24	9-24-24	
Acetylene	**ND**	3.1	RSK 175	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*81*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW16-240918**					
Laboratory ID:	09-240-05					
Methane	**1800**	11	RSK 175	9-24-24	9-24-24	
Ethane	**ND**	0.56	RSK 175	9-24-24	9-24-24	
Ethene	**ND**	0.58	RSK 175	9-24-24	9-24-24	
Acetylene	**ND**	3.1	RSK 175	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*85*	*50-150*				
Client ID:	**FL358-MW7-240918**					
Laboratory ID:	09-240-06					
Methane	**3600**	28	RSK 175	9-24-24	9-24-24	
Ethane	**ND**	0.56	RSK 175	9-24-24	9-24-24	
Ethene	**ND**	0.58	RSK 175	9-24-24	9-24-24	
Acetylene	**ND**	3.1	RSK 175	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*78*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-240918**					
Laboratory ID:	09-240-01					
Total Organic Carbon	**4.2**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW12-240918**					
Laboratory ID:	09-240-02					
Total Organic Carbon	**25**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW13-240918**					
Laboratory ID:	09-240-03					
Total Organic Carbon	**9.8**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW14-240918**					
Laboratory ID:	09-240-04					
Total Organic Carbon	**9.9**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW16-240918**					
Laboratory ID:	09-240-05					
Total Organic Carbon	**14**	1.0	SM 5310B	9-23-24	9-23-24	
Client ID:	**FL358-MW7-240918**					
Laboratory ID:	09-240-06					
Total Organic Carbon	**17**	1.0	SM 5310B	9-23-24	9-23-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-240918**					
Laboratory ID:	09-240-01					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-20-24	9-20-24	
Client ID:	**FL358-MW12-240918**					
Laboratory ID:	09-240-02					
Ammonia	**2.8**	0.053	SM 4500-NH3 D	9-20-24	9-20-24	
Client ID:	**FL358-MW13-240918**					
Laboratory ID:	09-240-03					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-20-24	9-20-24	
Client ID:	**FL358-MW14-240918**					
Laboratory ID:	09-240-04					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-20-24	9-20-24	
Client ID:	**FL358-MW16-240918**					
Laboratory ID:	09-240-05					
Ammonia	**0.27**	0.053	SM 4500-NH3 D	9-20-24	9-20-24	
Client ID:	**FL358-MW7-240918**					
Laboratory ID:	09-240-06					
Ammonia	**2.9**	0.053	SM 4500-NH3 D	9-20-24	9-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-240918**					
Laboratory ID:	09-240-01					
Nitrate	**ND**	0.050	EPA 353.2	9-19-24	9-19-24	
Client ID:	**FL358-MW12-240918**					
Laboratory ID:	09-240-02					
Nitrate	**0.58**	0.050	EPA 353.2	9-19-24	9-19-24	
Client ID:	**FL358-MW13-240918**					
Laboratory ID:	09-240-03					
Nitrate	**ND**	0.050	EPA 353.2	9-19-24	9-19-24	
Client ID:	**FL358-MW14-240918**					
Laboratory ID:	09-240-04					
Nitrate	**0.062**	0.050	EPA 353.2	9-19-24	9-19-24	
Client ID:	**FL358-MW16-240918**					
Laboratory ID:	09-240-05					
Nitrate	**ND**	0.050	EPA 353.2	9-19-24	9-19-24	
Client ID:	**FL358-MW7-240918**					
Laboratory ID:	09-240-06					
Nitrate	**0.16**	0.050	EPA 353.2	9-19-24	9-19-24	

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-240918**					
Laboratory ID:	09-240-01					
Nitrite	**ND**	0.020	EPA 353.2	9-19-24	9-19-24	
Client ID:	**FL358-MW12-240918**					
Laboratory ID:	09-240-02					
Nitrite	**ND**	0.020	EPA 353.2	9-19-24	9-19-24	
Client ID:	**FL358-MW13-240918**					
Laboratory ID:	09-240-03					
Nitrite	**ND**	0.020	EPA 353.2	9-19-24	9-19-24	
Client ID:	**FL358-MW14-240918**					
Laboratory ID:	09-240-04					
Nitrite	**ND**	0.020	EPA 353.2	9-19-24	9-19-24	
Client ID:	**FL358-MW16-240918**					
Laboratory ID:	09-240-05					
Nitrite	**ND**	0.020	EPA 353.2	9-19-24	9-19-24	
Client ID:	**FL358-MW7-240918**					
Laboratory ID:	09-240-06					
Nitrite	**ND**	0.020	EPA 353.2	9-19-24	9-19-24	

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-240918**					
Laboratory ID:	09-240-01					
Sulfate	**8.5**	5.0	ASTM D516-11	10-1-24	10-1-24	
Client ID:	**FL358-MW12-240918**					
Laboratory ID:	09-240-02					
Sulfate	**ND**	5.0	ASTM D516-11	10-1-24	10-1-24	
Client ID:	**FL358-MW13-240918**					
Laboratory ID:	09-240-03					
Sulfate	**ND**	5.0	ASTM D516-11	10-1-24	10-1-24	
Client ID:	**FL358-MW14-240918**					
Laboratory ID:	09-240-04					
Sulfate	**5.1**	5.0	ASTM D516-11	10-1-24	10-1-24	
Client ID:	**FL358-MW16-240918**					
Laboratory ID:	09-240-05					
Sulfate	**12**	5.0	ASTM D516-11	10-1-24	10-1-24	
Client ID:	**FL358-MW7-240918**					
Laboratory ID:	09-240-06					
Sulfate	**20**	5.0	ASTM D516-11	10-1-24	10-1-24	

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-240918**					
Laboratory ID:	09-240-01					
Chloride	**24**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW12-240918**					
Laboratory ID:	09-240-02					
Chloride	**39**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW13-240918**					
Laboratory ID:	09-240-03					
Chloride	**49**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW14-240918**					
Laboratory ID:	09-240-04					
Chloride	**27**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW16-240918**					
Laboratory ID:	09-240-05					
Chloride	**36**	2.0	SM 4500-Cl E	9-23-24	9-23-24	
Client ID:	**FL358-MW7-240918**					
Laboratory ID:	09-240-06					
Chloride	**20**	2.0	SM 4500-Cl E	9-23-24	9-23-24	

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-240918**					
Laboratory ID:	09-240-01					
Iron	**450**	56	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW12-240918**					
Laboratory ID:	09-240-02					
Iron	**68000**	560	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW13-240918**					
Laboratory ID:	09-240-03					
Iron	**3600**	56	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW14-240918**					
Laboratory ID:	09-240-04					
Iron	**5500**	56	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW16-240918**					
Laboratory ID:	09-240-05					
Iron	**2400**	56	EPA 6010D	9-26-24	9-26-24	
Client ID:	**FL358-MW7-240918**					
Laboratory ID:	09-240-06					
Iron	**42000**	560	EPA 6010D	9-26-24	9-26-24	

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	9-20-24	9-20-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Trichloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Tetrachloroethene	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0920W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.24**	**9.16**	10.0	10.0	92	92	67-130	1	15	
1,1-Dichloroethene	**9.87**	**9.86**	10.0	10.0	99	99	74-125	0	15	
(trans) 1,2-Dichloroethene	**9.90**	**9.73**	10.0	10.0	99	97	77-125	2	15	
(cis) 1,2-Dichloroethene	**9.90**	**9.90**	10.0	10.0	99	99	78-130	0	15	
Trichloroethene	**11.3**	**11.3**	10.0	10.0	113	113	80-126	0	15	
Tetrachloroethene	**11.1**	**11.1**	10.0	10.0	111	111	80-125	0	15	
Surrogate:										
Dibromofluoromethane					*86*	*86*	*68-133*			
Toluene-d8					*98*	*100*	*79-123*			
4-Bromofluorobenzene					*103*	*105*	*78-117*			

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924W1					
Methane	**ND**	0.55	RSK 175	9-24-24	9-24-24	
Ethane	**ND**	0.56	RSK 175	9-24-24	9-24-24	
Ethene	**ND**	0.58	RSK 175	9-24-24	9-24-24	
Acetylene	**ND**	3.1	RSK 175	9-24-24	9-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*90*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0924W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**36.4**	**39.8**	44.2	44.2	82	90	75-125	9	25	
Ethane	**66.7**	**74.1**	83.2	83.2	80	89	75-125	11	25	
Ethene	**60.1**	**68.5**	77.7	77.7	77	88	75-125	13	25	
Acetylene	**48.2**	**46.0**	72.0	72.0	67	64	60-140	5	25	
Surrogate:										
1-Butene					*84*	*95*	*50-150*			

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-23-24	9-23-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-217-01								
	ORIG	DUP							
Total Organic Carbon	**12.2**	**12.1**	NA	NA	NA	NA	1	11	
MATRIX SPIKE									
Laboratory ID:	09-217-01								
	MS		MS		MS				
Total Organic Carbon	**20.8**		10.0	12.2	86	85-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0923W1								
	SB		SB		SB				
Total Organic Carbon	**10.2**		10.0	NA	102	79-120	NA	NA	

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-20-24	9-20-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-217-01								
	ORIG	DUP							
Ammonia	**1.20**	**1.21**	NA	NA	NA	NA	1	15	
MATRIX SPIKE									
Laboratory ID:	09-217-01								
	MS		MS		MS				
Ammonia	**5.30**		5.00	1.20	82	75-111	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0920W1								
	SB		SB		SB				
Ammonia	**4.99**		5.00	NA	100	81-110	NA	NA	

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919W1					
Nitrate	**ND**	0.050	EPA 353.2	9-19-24	9-19-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-239-01							
	ORIG DUP							
Nitrate	**ND** **ND**	NA	NA	NA	NA	NA	22	
MATRIX SPIKE								
Laboratory ID:	09-239-01							
	MS	MS		MS				
Nitrate	**2.14**	2.00	ND	107	86-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0919W1							
	SB	SB		SB				
Nitrate	**2.09**	2.00	NA	105	85-117	NA	NA	

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919W1					
Nitrite	**ND**	0.020	EPA 353.2	9-19-24	9-19-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-239-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	09-239-01							
	MS	MS		MS				
Nitrite	**0.255**	0.250	ND	102	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0919W1							
	SB	SB		SB				
Nitrite	**0.252**	0.250	NA	101	91-116	NA	NA	

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1001W1					
Sulfate	**ND**	5.0	ASTM D516-11	10-1-24	10-1-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-240-01								
	ORIG	DUP							
Sulfate	**8.54**	**8.56**	NA	NA	NA	NA	0	11	
MATRIX SPIKE									
Laboratory ID:	09-240-01								
	MS		MS		MS				
Sulfate	**20.5**		10.0	8.54	120	69-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1001W1								
	SB		SB		SB				
Sulfate	**9.27**		10.0	NA	93	81-106	NA	NA	

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	**ND**	2.0	SM 4500-Cl E	9-23-24	9-23-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-217-01								
	ORIG	DUP							
Chloride	**21.7**	**22.4**	NA	NA	NA	NA	3	21	
MATRIX SPIKE									
Laboratory ID:	09-217-01								
	MS		MS		MS				
Chloride	**78.0**		50.0	21.7	113	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0923W1								
	SB		SB		SB				
Chloride	**49.6**		50.0	NA	99	77-115	NA	NA	

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Date of Report: October 3, 2024
Samples Submitted: September 19, 2024
Laboratory Reference: 2409-240
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926WM1					
Iron	**ND**	56	EPA 6010D	9-26-24	9-26-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-267-01										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-267-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22800**	**23700**	22200	22200	ND	**103**	**107**	75-125	4	20	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

October 01, 2024

David Baumeister
14648 NE 95th ST
Redmond, WA 98052

Project: OSE
Project Number: FL358 (4082-039-03)
Project Manager: David Baumeister
RE: OSE

Enclosed are the results of analyses for samples received by our laboratory on 9/19/2024.
Please feel free to contact me with any questions or considerations regarding this report.

Sincerely,

ElementStationManager For Aaron Young
President

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 09/19/24
Date Reported: 10/01/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: FL358 (4082-039-03)

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A24I0358-01	FL358-MW8-240918	Water		09/18/2024	09/19/2024
A24I0358-02	FL358-MW12-240918	Water		09/18/2024	09/19/2024
A24I0358-03	FL358-MW13-240918	Water		09/18/2024	09/19/2024
A24I0358-04	FL358-MW14-240918	Water		09/18/2024	09/19/2024
A24I0358-05	FL358-MW16-240918	Water		09/18/2024	09/19/2024
A24I0358-06	FL358-MW7-240918	Water		09/18/2024	09/19/2024

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 09/19/24
Date Reported: 10/01/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: FL358 (4082-039-03)

AMTEST Identification Number: A24I0358-01
Client Identification: FL358-MW8-240918
Sampling Date: 09/18/24 10:15

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	ND	mg/L	U	2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0358-02
Client Identification: FL358-MW12-240918
Sampling Date: 09/18/24 09:30

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	4	mg/L		2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0358-03
Client Identification: FL358-MW13-240918
Sampling Date: 09/18/24 13:45

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	2	mg/L		2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0358-04
Client Identification: FL358-MW14-240918
Sampling Date: 09/18/24 12:30

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	2	mg/L		2	SM 5210B_2011	JM	09/20/2024

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 09/19/24
Date Reported: 10/01/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: FL358 (4082-039-03)

AMTEST Identification Number: A24I0358-05
Client Identification: FL358-MW16-240918
Sampling Date: 09/18/24 11:15

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	2	mg/L		2	SM 5210B_2011	JM	09/20/2024

AMTEST Identification Number: A24I0358-06
Client Identification: FL358-MW7-240918
Sampling Date: 09/18/24 15:50

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	15	mg/L		2	SM 5210B_2011	JM	09/20/2024

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ANALYSIS REPORT

Professional Analytical Services

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: FL358 (4082-039-03)

Date Received: 09/19/24
Date Reported: 10/01/24

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBJ0004 - No Prep - WetChem										
Calibration Blank (BBJ0004-CCB1)					Prepared & Analyzed: 09/20/24					
Biological Oxygen Demand (BOD)	0	U		mg/L						
Duplicate (BBJ0004-DUP2)		**Source: A24I0358-01**			Prepared & Analyzed: 09/20/24					
Biological Oxygen Demand (BOD)	ND	U	2	mg/L		ND				35.5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: FL358 (4082-039-03)

Date Received: 09/19/24
Date Reported: 10/01/24

Notes and Definitions

Item	Definition
U	The compound was analyzed for but was not detected (Non-detect) at or above the MRL/MDL.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

A24I0358

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 09-240

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name: FL358

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW8-240918	9/18/24	10:15	Water	1	BOD SM 5210B
02	FL358-MW12-240918	9/18/24	9:30	Water	1	BOD SM 5210B
03	FL358-MW13-240918	9/18/24	13:45	Water	1	BOD SM 5210B
04	FL358-MW14-240918	9/18/24	12:30	Water	1	BOD SM 5210B
05	FL358-MW16-240918	9/18/24	11:15	Water	1	BOD SM 5210B
06	FL358-MW7-240918	9/18/24	15:50	Water	1	BOD SM 5210B

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OnSite Env	9/19/24	14:00	2.2°C
Received by:	AmTest	9/19/24	14:00	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: Brittany Waite and Tricia DeOme
Sampled by: James Kohn &Divya Khandelwal

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☑ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 09-240

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW6-240918	9/18/24	1045	W	10																		X		X	X	
2	FL358-MW12-240918	9/18/24	0930	W	10																		X		X	X	
3	FL358-MW13-240918	9/18/24	1345	W	10																		X		X	X	
4	FL358-MW14-240918	9/18/24	1230	W	10																		X		X	X	
5	FL358-MW16-240918	9/18/24	1115	W	10																		X		X	X	
6	FL358-MW7-240918	9/18/24	1550	W	10																		X		X	X	
~~—~~	~~FL358-DUP~~	~~9/ /24~~		~~W~~																		~~X~~	~~X~~	~~X~~	~~X~~	
7	FL358-RB1-240918	9/18/24	1400	W	3																		X				
8	FL358-TB1-240918	9/18/24	--	W	3																		X				

	Signature	Company	Date	Time
Relinquished		GEI	9/19/24	1040
Received	Van	Spdy	9/19/24	1040
Relinquished	Van	Spdy	9/19/24	1330
Received		GEI	9/19/24	1330
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 15, 2024

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 4082-039-03 T2200 ST3
Laboratory Reference No. 2406-281

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on June 21, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2024
Samples Submitted: June 21, 2024
Laboratory Reference: 2406-281
Project: 4082-039-03 T2200 ST3

Case Narrative

Samples were collected on June 20, 2024 and received by the laboratory on June 21, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. Preserved sample FL358-MW14-240620 was re-tested outside of the initial 48-hour holding time due to suspected contamination during the initial run.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2024
Samples Submitted: June 21, 2024
Laboratory Reference: 2406-281
Project: 4082-039-03 T2200 ST3

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW5A-240620	06-281-01	Water	6-20-24	6-21-24	
FL358-MW5B-240620	06-281-02	Water	6-20-24	6-21-24	
FL358-MW6-240620	06-281-03	Water	6-20-24	6-21-24	
FL358-MW8-240620	06-281-04	Water	6-20-24	6-21-24	
FL358-MW9-240620	06-281-05	Water	6-20-24	6-21-24	
FL358-MW10-240620	06-281-06	Water	6-20-24	6-21-24	
FL358-MWDUP-240620	06-281-07	Water	6-20-24	6-21-24	
FL358-RB-240620	06-281-08	Water	6-20-24	6-21-24	
FL358-TB-240620	06-281-09	Water	---	6-21-24	
FL358-MW14-240620	06-281-10	Water	6-20-24	6-21-24	

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Date of Report: July 15, 2024
Samples Submitted: June 21, 2024
Laboratory Reference: 2406-281
Project: 4082-039-03 T2200 ST3

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240620**					
Laboratory ID:	06-281-01					
Vinyl Chloride	7.2	2.0	EPA 8260D	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	67	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	91	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	97	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*68-133*				
Toluene-d8	*97*	*79-123*				
4-Bromofluorobenzene	*94*	*78-117*				
Client ID:	**FL358-MW5B-240620**					
Laboratory ID:	06-281-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**FL358-MW6-240620**					
Laboratory ID:	06-281-03					
Vinyl Chloride (SIM)	0.97	0.20	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	62	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	77	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	2.7	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*95*	*78-117*				

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2024
Samples Submitted: June 21, 2024
Laboratory Reference: 2406-281
Project: 4082-039-03 T2200 ST3

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-240620**					
Laboratory ID:	06-281-04					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				
Client ID:	**FL358-MW9-240620**					
Laboratory ID:	06-281-05					
Vinyl Chloride (SIM)	0.21	0.20	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	2.9	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*95*	*78-117*				
Client ID:	**FL358-MW10-240620**					
Laboratory ID:	06-281-06					
Vinyl Chloride (SIM)	0.28	0.20	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

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Date of Report: July 15, 2024
Samples Submitted: June 21, 2024
Laboratory Reference: 2406-281
Project: 4082-039-03 T2200 ST3

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MWDUP-240620**					
Laboratory ID:	06-281-07					
Vinyl Chloride (SIM)	1.0	0.20	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	62	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	76	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	2.8	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*97*	*79-123*				
4-Bromofluorobenzene	*94*	*78-117*				
Client ID:	**FL358-RB-240620**					
Laboratory ID:	06-281-08					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				
Client ID:	**FL358-TB-240620**					
Laboratory ID:	06-281-09					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*95*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2024
Samples Submitted: June 21, 2024
Laboratory Reference: 2406-281
Project: 4082-039-03 T2200 ST3

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW14-240620**					
Laboratory ID:	06-281-10					
Vinyl Chloride (SIM)	1.9	0.20	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	6.7	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2024
Samples Submitted: June 21, 2024
Laboratory Reference: 2406-281
Project: 4082-039-03 T2200 ST3

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240620**					
Laboratory ID:	06-281-01					
Methane	**420**	3.3	RSK 175	6-27-24	6-27-24	
Ethane	**ND**	0.56	RSK 175	6-27-24	6-27-24	
Ethene	**ND**	0.58	RSK 175	6-27-24	6-27-24	
Acetylene	**ND**	3.1	RSK 175	6-27-24	6-27-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*93*	*50-150*				
Client ID:	**FL358-MW5B-240620**					
Laboratory ID:	06-281-02					
Methane	**420**	3.3	RSK 175	6-27-24	6-27-24	
Ethane	**ND**	0.56	RSK 175	6-27-24	6-27-24	
Ethene	**ND**	0.58	RSK 175	6-27-24	6-27-24	
Acetylene	**ND**	3.1	RSK 175	6-27-24	6-27-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*94*	*50-150*				
Client ID:	**FL358-MW6-240620**					
Laboratory ID:	06-281-03					
Methane	**830**	8.3	RSK 175	6-27-24	6-27-24	
Ethane	**ND**	0.56	RSK 175	6-27-24	6-27-24	
Ethene	**ND**	0.58	RSK 175	6-27-24	6-27-24	
Acetylene	**ND**	3.1	RSK 175	6-27-24	6-27-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*91*	*50-150*				
Client ID:	**FL358-MW8-240620**					
Laboratory ID:	06-281-04					
Methane	**220**	3.3	RSK 175	7-2-24	7-2-24	
Ethane	**ND**	0.56	RSK 175	7-2-24	7-2-24	
Ethene	**ND**	0.58	RSK 175	7-2-24	7-2-24	
Acetylene	**ND**	3.1	RSK 175	7-2-24	7-2-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*84*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2024
Samples Submitted: June 21, 2024
Laboratory Reference: 2406-281
Project: 4082-039-03 T2200 ST3

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-240620**					
Laboratory ID:	06-281-05					
Methane	**4100**	28	RSK 175	7-2-24	7-2-24	
Ethane	**ND**	0.56	RSK 175	7-2-24	7-2-24	
Ethene	**ND**	0.58	RSK 175	7-2-24	7-2-24	
Acetylene	**ND**	3.1	RSK 175	7-2-24	7-2-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*81*	*50-150*				
Client ID:	**FL358-MW10-240620**					
Laboratory ID:	06-281-06					
Methane	**2600**	28	RSK 175	6-27-24	6-27-24	
Ethane	**ND**	0.56	RSK 175	6-27-24	6-27-24	
Ethene	**ND**	0.58	RSK 175	6-27-24	6-27-24	
Acetylene	**ND**	3.1	RSK 175	6-27-24	6-27-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*90*	*50-150*				
Client ID:	**FL358-MWDUP-240620**					
Laboratory ID:	06-281-07					
Methane	**830**	8.3	RSK 175	6-27-24	6-27-24	
Ethane	**ND**	0.56	RSK 175	6-27-24	6-27-24	
Ethene	**ND**	0.58	RSK 175	6-27-24	6-27-24	
Acetylene	**ND**	3.1	RSK 175	6-27-24	6-27-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*94*	*50-150*				
Client ID:	**FL358-MW14-240620**					
Laboratory ID:	06-281-10					
Methane	**340**	3.3	RSK 175	6-27-24	6-27-24	
Ethane	**ND**	0.56	RSK 175	6-27-24	6-27-24	
Ethene	**ND**	0.58	RSK 175	6-27-24	6-27-24	
Acetylene	**ND**	3.1	RSK 175	6-27-24	6-27-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*96*	*50-150*				

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Date of Report: July 15, 2024
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Project: 4082-039-03 T2200 ST3

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240620**					
Laboratory ID:	06-281-01					
Total Organic Carbon	**7.4**	1.0	SM 5310B	6-26-24	6-26-24	
Client ID:	**FL358-MW5B-240620**					
Laboratory ID:	06-281-02					
Total Organic Carbon	**5.5**	1.0	SM 5310B	6-26-24	6-26-24	
Client ID:	**FL358-MW6-240620**					
Laboratory ID:	06-281-03					
Total Organic Carbon	**7.8**	1.0	SM 5310B	6-26-24	6-26-24	
Client ID:	**FL358-MW8-240620**					
Laboratory ID:	06-281-04					
Total Organic Carbon	**3.9**	1.0	SM 5310B	6-26-24	6-26-24	
Client ID:	**FL358-MW9-240620**					
Laboratory ID:	06-281-05					
Total Organic Carbon	**12**	1.0	SM 5310B	6-26-24	6-26-24	
Client ID:	**FL358-MW10-240620**					
Laboratory ID:	06-281-06					
Total Organic Carbon	**12**	1.0	SM 5310B	6-26-24	6-26-24	
Client ID:	**FL358-MWDUP-240620**					
Laboratory ID:	06-281-07					
Total Organic Carbon	**7.5**	1.0	SM 5310B	6-26-24	6-26-24	
Client ID:	**FL358-MW14-240620**					
Laboratory ID:	06-281-10					
Total Organic Carbon	**9.3**	1.0	SM 5310B	6-26-24	6-26-24	

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Date of Report: July 15, 2024
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Project: 4082-039-03 T2200 ST3

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240620**					
Laboratory ID:	06-281-01					
Ammonia	**0.070**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	
Client ID:	**FL358-MW5B-240620**					
Laboratory ID:	06-281-02					
Ammonia	**ND**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	
Client ID:	**FL358-MW6-240620**					
Laboratory ID:	06-281-03					
Ammonia	**0.072**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	
Client ID:	**FL358-MW8-240620**					
Laboratory ID:	06-281-04					
Ammonia	**ND**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	
Client ID:	**FL358-MW9-240620**					
Laboratory ID:	06-281-05					
Ammonia	**1.3**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	
Client ID:	**FL358-MW10-240620**					
Laboratory ID:	06-281-06					
Ammonia	**0.75**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	
Client ID:	**FL358-MWDUP-240620**					
Laboratory ID:	06-281-07					
Ammonia	**0.092**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	
Client ID:	**FL358-MW14-240620**					
Laboratory ID:	06-281-10					
Ammonia	**0.063**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	

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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240620**					
Laboratory ID:	06-281-01					
Nitrate	**ND**	0.050	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW5B-240620**					
Laboratory ID:	06-281-02					
Nitrate	**ND**	0.050	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW6-240620**					
Laboratory ID:	06-281-03					
Nitrate	**ND**	0.050	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW8-240620**					
Laboratory ID:	06-281-04					
Nitrate	**ND**	0.050	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW9-240620**					
Laboratory ID:	06-281-05					
Nitrate	**0.20**	0.050	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW10-240620**					
Laboratory ID:	06-281-06					
Nitrate	**0.41**	0.050	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MWDUP-240620**					
Laboratory ID:	06-281-07					
Nitrate	**42**	0.50	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW14-240620**					
Laboratory ID:	06-281-10					
Nitrate	**ND**	0.050	EPA 353.2	7-2-24	7-2-24	

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NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240620**					
Laboratory ID:	06-281-01					
Nitrite	**ND**	0.020	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW5B-240620**					
Laboratory ID:	06-281-02					
Nitrite	**ND**	0.020	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW6-240620**					
Laboratory ID:	06-281-03					
Nitrite	**ND**	0.020	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW8-240620**					
Laboratory ID:	06-281-04					
Nitrite	**ND**	0.020	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW9-240620**					
Laboratory ID:	06-281-05					
Nitrite	**ND**	0.020	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW10-240620**					
Laboratory ID:	06-281-06					
Nitrite	**ND**	0.020	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MWDUP-240620**					
Laboratory ID:	06-281-07					
Nitrite	**ND**	0.020	EPA 353.2	6-21-24	6-21-24	
Client ID:	**FL358-MW14-240620**					
Laboratory ID:	06-281-10					
Nitrite	**ND**	0.020	EPA 353.2	6-21-24	6-21-24	

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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240620**					
Laboratory ID:	06-281-01					
Sulfate	**15**	5.0	ASTM D516-11	7-2-24	7-2-24	
Client ID:	**FL358-MW5B-240620**					
Laboratory ID:	06-281-02					
Sulfate	**19**	5.0	ASTM D516-11	7-2-24	7-2-24	
Client ID:	**FL358-MW6-240620**					
Laboratory ID:	06-281-03					
Sulfate	**9.3**	5.0	ASTM D516-11	7-2-24	7-2-24	
Client ID:	**FL358-MW8-240620**					
Laboratory ID:	06-281-04					
Sulfate	**9.5**	5.0	ASTM D516-11	7-2-24	7-2-24	
Client ID:	**FL358-MW9-240620**					
Laboratory ID:	06-281-05					
Sulfate	**ND**	5.0	ASTM D516-11	7-2-24	7-2-24	
Client ID:	**FL358-MW10-240620**					
Laboratory ID:	06-281-06					
Sulfate	**ND**	5.0	ASTM D516-11	7-2-24	7-2-24	
Client ID:	**FL358-MWDUP-240620**					
Laboratory ID:	06-281-07					
Sulfate	**9.4**	5.0	ASTM D516-11	7-2-24	7-2-24	
Client ID:	**FL358-MW14-240620**					
Laboratory ID:	06-281-10					
Sulfate	**10**	5.0	ASTM D516-11	7-2-24	7-2-24	

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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240620**					
Laboratory ID:	06-281-01					
Chloride	**29**	2.0	SM 4500-Cl E	7-2-24	7-2-24	
Client ID:	**FL358-MW5B-240620**					
Laboratory ID:	06-281-02					
Chloride	**25**	2.0	SM 4500-Cl E	7-2-24	7-2-24	
Client ID:	**FL358-MW6-240620**					
Laboratory ID:	06-281-03					
Chloride	**33**	2.0	SM 4500-Cl E	7-2-24	7-2-24	
Client ID:	**FL358-MW8-240620**					
Laboratory ID:	06-281-04					
Chloride	**25**	2.0	SM 4500-Cl E	7-2-24	7-2-24	
Client ID:	**FL358-MW9-240620**					
Laboratory ID:	06-281-05					
Chloride	**22**	2.0	SM 4500-Cl E	7-2-24	7-2-24	
Client ID:	**FL358-MW10-240620**					
Laboratory ID:	06-281-06					
Chloride	**17**	2.0	SM 4500-Cl E	7-2-24	7-2-24	
Client ID:	**FL358-MWDUP-240620**					
Laboratory ID:	06-281-07					
Chloride	**34**	2.0	SM 4500-Cl E	7-2-24	7-2-24	
Client ID:	**FL358-MW14-240620**					
Laboratory ID:	06-281-10					
Chloride	**42**	2.0	SM 4500-Cl E	7-2-24	7-2-24	

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TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-240620**					
Laboratory ID:	06-281-01					
Iron	**1500**	50	EPA 6010D	6-24-24	6-24-24	
Client ID:	**FL358-MW5B-240620**					
Laboratory ID:	06-281-02					
Iron	**210**	50	EPA 6010D	6-24-24	6-24-24	
Client ID:	**FL358-MW6-240620**					
Laboratory ID:	06-281-03					
Iron	**850**	50	EPA 6010D	6-24-24	6-24-24	
Client ID:	**FL358-MW8-240620**					
Laboratory ID:	06-281-04					
Iron	**590**	50	EPA 6010D	6-24-24	6-24-24	
Client ID:	**FL358-MW9-240620**					
Laboratory ID:	06-281-05					
Iron	**46000**	500	EPA 6010D	6-24-24	6-25-24	
Client ID:	**FL358-MW10-240620**					
Laboratory ID:	06-281-06					
Iron	**30000**	500	EPA 6010D	6-24-24	6-25-24	
Client ID:	**FL358-MWDUP-240620**					
Laboratory ID:	06-281-07					
Iron	**840**	50	EPA 6010D	6-24-24	6-24-24	
Client ID:	**FL358-MW14-240620**					
Laboratory ID:	06-281-10					
Iron	**4300**	50	EPA 6010D	6-24-24	6-24-24	

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VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628W2					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0628W2									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.7**	**10.1**	10.0	10.0	107	101	67-130	6	15	
1,1-Dichloroethene	**8.71**	**8.56**	10.0	10.0	87	86	74-125	2	15	
(trans) 1,2-Dichloroethene	**8.34**	**8.38**	10.0	10.0	83	84	77-125	0	15	
(cis) 1,2-Dichloroethene	**8.39**	**8.35**	10.0	10.0	84	84	78-130	0	15	
Trichloroethene	**9.09**	**9.05**	10.0	10.0	91	91	80-126	0	15	
Tetrachloroethene	**10.9**	**10.6**	10.0	10.0	109	106	80-125	3	15	
Surrogate:										
Dibromofluoromethane					*99*	*98*	*68-133*			
Toluene-d8					*98*	*98*	*79-123*			
4-Bromofluorobenzene					*97*	*96*	*78-117*			

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DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
Methane	**ND**	0.55	RSK 175	6-27-24	6-27-24	
Ethane	**ND**	0.56	RSK 175	6-27-24	6-27-24	
Ethene	**ND**	0.58	RSK 175	6-27-24	6-27-24	
Acetylene	**ND**	3.1	RSK 175	6-27-24	6-27-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*90*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0627W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**44.1**	**43.1**	44.2	44.2	100	98	75-125	2	25	
Ethane	**81.3**	**79.8**	83.2	83.2	98	96	75-125	2	25	
Ethene	**77.9**	**78.0**	77.7	77.7	100	100	75-125	0	25	
Acetylene	**54.9**	**54.0**	72.0	72.0	76	75	60-140	2	25	
Surrogate:										
1-Butene					*101*	*101*	*50-150*			

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TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0626W2					
Total Organic Carbon	**ND**	1.0	SM 5310B	6-26-24	6-26-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-281-01								
	ORIG	DUP							
Total Organic Carbon	**7.43**	**7.67**	NA	NA	NA	NA	3	11	
MATRIX SPIKE									
Laboratory ID:	06-281-01								
	MS		MS		MS				
Total Organic Carbon	**16.2**		10.0	7.43	88	85-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0626W2								
	SB		SB		SB				
Total Organic Carbon	**10.3**		10.0	NA	103	79-120	NA	NA	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-177-02							
	ORIG DUP							
Ammonia	**ND** **ND**	NA	NA	NA	NA	NA	15	
MATRIX SPIKE								
Laboratory ID:	06-177-02							
	MS	MS		MS				
Ammonia	**4.90**	5.00	ND	98	75-111	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0624W1							
	SB	SB		SB				
Ammonia	**4.82**	5.00	NA	96	81-110	NA	NA	

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NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0702W1					
Nitrate	**ND**	0.050	EPA 353.2	7-2-24	7-2-24	
Laboratory ID:	MB0621W1					
Nitrate	**ND**	0.050	EPA 353.2	6-21-24	6-21-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-281-10								
	ORIG	DUP							
Nitrate	**ND**	**ND**	NA	NA	NA	NA	NA	22	
MATRIX SPIKE									
Laboratory ID:	06-281-10								
	MS		MS		MS				
Nitrate	**2.11**		2.00	ND	106	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0702W1								
	SB		SB		SB				
Nitrate	**2.01**		2.00	NA	101	85-117	NA	NA	

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NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0621W1					
Nitrite	**ND**	0.020	EPA 353.2	6-21-24	6-21-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-279-05								
	ORIG	DUP							
Nitrite	**ND**	**ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE									
Laboratory ID:	06-279-05								
	MS		MS		MS				
Nitrite	**0.267**		0.250	ND	107	85-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0621W1								
	SB		SB		SB				
Nitrite	**0.267**		0.250	NA	107	91-116	NA	NA	

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Samples Submitted: June 21, 2024
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SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0702W1					
Sulfate	**ND**	5.0	ASTM D516-11	7-2-24	7-2-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-281-03								
	ORIG	DUP							
Sulfate	**9.33**	**9.32**	NA	NA	NA	NA	0	11	
MATRIX SPIKE									
Laboratory ID:	06-281-03								
	MS		MS		MS				
Sulfate	**19.1**		10.0	9.33	98	69-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0702W1								
	SB		SB		SB				
Sulfate	**9.82**		10.0	NA	98	81-106	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2024
Samples Submitted: June 21, 2024
Laboratory Reference: 2406-281
Project: 4082-039-03 T2200 ST3

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0702W1					
Chloride	**ND**	2.0	SM 4500-Cl E	7-2-24	7-2-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-281-01								
	ORIG	DUP							
Chloride	**28.7**	**27.4**	NA	NA	NA	NA	5	21	
MATRIX SPIKE									
Laboratory ID:	06-281-01								
	MS		MS		MS				
Chloride	**83.8**		50.0	28.7	110	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0702W1								
	SB		SB		SB				
Chloride	**53.7**		50.0	NA	107	77-115	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2024
Samples Submitted: June 21, 2024
Laboratory Reference: 2406-281
Project: 4082-039-03 T2200 ST3

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624WH1					
Iron	**ND**	50	EPA 6010D	6-24-24	6-24-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	06-267-01										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	06-267-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**21700**	**21600**	20000	20000	ND	**108**	**108**	75-125	0	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

June 28, 2024

David Baumeister
14648 NE 95th ST
Redmond, WA 98052

Project: OSE
Project Number: 4082-039-03 T2200
Project Manager: David Baumeister
RE: OSE

Enclosed are the results of analyses for samples received by our laboratory on 6/21/2024.
Please feel free to contact me with any questions or considerations regarding this report.

Sincerely,

ElementStationManager For Aaron Young
President

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/21/24
Date Reported: 06/28/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T2200

All results reported on an as received basis.

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A24F0436-01	FL358-MW5A-240620	Water		06/20/2024	06/21/2024
A24F0436-02	FL358-MW5B-240620	Water		06/20/2024	06/21/2024
A24F0436-03	FL358-MW6-240620	Water		06/20/2024	06/21/2024
A24F0436-04	FL358-MW8-240620	Water		06/20/2024	06/21/2024
A24F0436-05	FL358-MW9-240620	Water	S	06/20/2024	06/21/2024
A24F0436-06	FL358-MW10-240620	Water	S	06/20/2024	06/21/2024
A24F0436-07	FL358-MWDUP-240620	Water		06/20/2024	06/21/2024
A24F0436-08	FL358-MW14-240620	Water		06/20/2024	06/21/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 06/21/24
Date Reported: 06/28/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T2200

All results reported on an as received basis.

AMTEST Identification Number: A24F0436-01
Client Identification: FL358-MW5A-240620
Sampling Date: 06/20/24 15:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	ND	mg/L	U	2	SM 5210B_2011	JM	06/21/2024

AMTEST Identification Number: A24F0436-02
Client Identification: FL358-MW5B-240620
Sampling Date: 06/20/24 14:55

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	ND	mg/L	U	2	SM 5210B_2011	JM	06/21/2024

AMTEST Identification Number: A24F0436-03
Client Identification: FL358-MW6-240620
Sampling Date: 06/20/24 13:45

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	ND	mg/L	U	2	SM 5210B_2011	JM	06/21/2024

AMTEST Identification Number: A24F0436-04
Client Identification: FL358-MW8-240620
Sampling Date: 06/20/24 12:55

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	ND	mg/L	U	2	SM 5210B_2011	JM	06/21/2024

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 06/21/24
Date Reported: 06/28/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T2200

All results reported on an as received basis.

AMTEST Identification Number: A24F0436-05
Client Identification: FL358-MW9-240620
Sampling Date: 06/20/24 09:30

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	13	mg/L		2	SM 5210B_2011	JM	06/21/2024

AMTEST Identification Number: A24F0436-06
Client Identification: FL358-MW10-240620
Sampling Date: 06/20/24 09:45

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	14	mg/L		2	SM 5210B_2011	JM	06/21/2024

AMTEST Identification Number: A24F0436-07
Client Identification: FL358-MWDUP-240620
Sampling Date: 06/20/24 12:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	ND	mg/L	U	2	SM 5210B_2011	JM	06/21/2024

AMTEST Identification Number: A24F0436-08
Client Identification: FL358-MW14-240620
Sampling Date: 06/20/24 11:55

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	ND	mg/L	U	2	SM 5210B_2011	JM	06/21/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

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Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 06/21/24
Date Reported: 06/28/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T2200

All results reported on an as received basis.

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0402 - No Prep - WetChem										
Calibration Blank (BBF0402-CCB1)					Prepared & Analyzed: 06/21/24					
Biological Oxygen Demand	0	U		mg/L						
Duplicate (BBF0402-DUP1)		**Source: A24F0429-02**			Prepared & Analyzed: 06/21/24					
Biological Oxygen Demand	ND	U	2	mg/L		ND				25

Notes and Definitions

Item	Definition
U	The compound was analyzed for but was not detected (Non-detect) at or above the MRL/MDL.
S	The sample did not meet the method specification of 2 ppm depletion.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

A24F0436

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 06-281

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03 T2200

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW5A-240620	6/20/24	15:00	W	1	BOD SM521B
02	FL358-MW5B-240620	6/20/24	14:55	W	1	BOD SM521B
03	FL358-MW6-240620	6/20/24	13:45	W	1	BOD SM521B
04	FL358-MW8-240620	6/20/24	12:55	W	1	BOD SM521B
05	FL358-MW9-240620	6/20/24	9:30	W	1	BOD SM521B
06	FL358-MW10-240620	6/20/24	9:45	W	1	BOD SM521B
07	FL358-MWDUP-240620	6/20/24	12:00	W	1	BOD SM521B
08	FL358-MW14-240620	6/20/24	11:55	W	1	BOD SM521B

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OnSite Env	6/21/24	1410	
Received by:	AMT	6/21/24	1340	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

EDDs

11.3°C

A24F0436

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 06-281

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03 T2200

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW5A-240620	6/20/24	15:00	W	1	BOD SM521B
02	FL358-MW5B-240620	6/20/24	14:55	W	1	BOD SM521B
03	FL358-MW6-240620	6/20/24	13:45	W	1	BOD SM521B
04	FL358-MW8-240620	6/20/24	12:55	W	1	BOD SM521B
05	FL358-MW9-240620	6/20/24	9:30	W	1	BOD SM521B
06	FL358-MW10-240620	6/20/24	9:45	W	1	BOD SM521B
07	FL358-MWDUP-240620	6/20/24	12:00	W	1	BOD SM521B
08	FL358-MW14-240620	6/20/24	11:55	W	1	BOD SM521B

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OnSite Env	6/21/24	1410	
Received by:	AMT	6/21/24	1340	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

EDDs

11.3°C

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03 T2200 ST3
Project Name: FL358
Project Manager: Katy Atakturk and Tricia DeOme
Sampled by: James Kohn & Meredith Bush

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 06-281

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW5A-240620	6/20/24	1500	W	10																		X		X	X	
2	FL358-MW5B-240620	6/ /24	1455	W																			X		X	X	
3	FL358-MW6-240620	6/ /24	1345	W																			X		X	X	
4	FL358-MW8-240620	6/ /24	1255	W																			X		X	X	
5	FL358-MW9-240620	6/ /24	0930	W																			X		X	X	
6	FL358-MW10-240620	6/ /24	0945	W																			X		X	X	
7	~~FL358-DUP~~ FL358-MWDUP-240620	6/ /24	1200	W																			X		X	X	
8	FL358-RB-240620	6/ /24	1545	W	5																		X				
9	FL358-TB-240620	6/ /24	--	W	3																		X				
10	FL358-MW14-240620	6/20/24	1155	W	10																		X		X	X	

	Signature	Company	Date	Time
Relinquished		GEI	06/21/24	1530
Received		CORE	6/21/24	1245
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 2, 2024

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 4082-039-03 Task 2200, subtask 03
Laboratory Reference No. 2406-258

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on June 20, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

Case Narrative

Samples were collected on June 19, 2024 and received by the laboratory on June 20, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW7-240619	06-258-01	Water	6-19-24	6-20-24	
FL358-MW11-240619	06-258-02	Water	6-19-24	6-20-24	
FL358-MW12-240619	06-258-03	Water	6-19-24	6-20-24	
FL358-MW13-240619	06-258-04	Water	6-19-24	6-20-24	
FL358-RB-240619	06-258-05	Water	6-19-24	6-20-24	
FL358-TB-240619	06-258-06	Water	---	6-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240619**					
Laboratory ID:	06-258-01					
Vinyl Chloride	2.4	2.0	EPA 8260D	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**FL358-MW11-240619**					
Laboratory ID:	06-258-02					
Vinyl Chloride	2.2	2.0	EPA 8260D	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	2.1	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*95*	*78-117*				
Client ID:	**FL358-MW12-240619**					
Laboratory ID:	06-258-03					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-240619**					
Laboratory ID:	06-258-04					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	2.5	2.0	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	2.0	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	3.5	2.0	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*95*	*78-117*				
Client ID:	**FL358-RB-240619**					
Laboratory ID:	06-258-05					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*97*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				
Client ID:	**FL358-TB-240619**					
Laboratory ID:	06-258-06					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*95*	*78-117*				

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240619**					
Laboratory ID:	06-258-01					
Methane	**3800**	28	RSK 175	6-26-24	6-26-24	
Ethane	**ND**	0.56	RSK 175	6-26-24	6-26-24	
Ethene	**ND**	0.58	RSK 175	6-26-24	6-26-24	
Acetylene	**ND**	3.1	RSK 175	6-26-24	6-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*88*	*50-150*				
Client ID:	**FL358-MW11-240619**					
Laboratory ID:	06-258-02					
Methane	**2200**	28	RSK 175	6-26-24	6-26-24	
Ethane	**ND**	0.56	RSK 175	6-26-24	6-26-24	
Ethene	**ND**	0.58	RSK 175	6-26-24	6-26-24	
Acetylene	**ND**	3.1	RSK 175	6-26-24	6-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*87*	*50-150*				
Client ID:	**FL358-MW12-240619**					
Laboratory ID:	06-258-03					
Methane	**3200**	28	RSK 175	6-26-24	6-26-24	
Ethane	**ND**	0.56	RSK 175	6-26-24	6-26-24	
Ethene	**ND**	0.58	RSK 175	6-26-24	6-26-24	
Acetylene	**ND**	3.1	RSK 175	6-26-24	6-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*83*	*50-150*				
Client ID:	**FL358-MW13-240619**					
Laboratory ID:	06-258-04					
Methane	**330**	3.3	RSK 175	6-27-24	6-27-24	
Ethane	**ND**	0.56	RSK 175	6-27-24	6-27-24	
Ethene	**ND**	0.58	RSK 175	6-27-24	6-27-24	
Acetylene	**ND**	3.1	RSK 175	6-27-24	6-27-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*86*	*50-150*				

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240619**					
Laboratory ID:	06-258-01					
Total Organic Carbon	**17**	1.0	SM 5310B	6-26-24	6-26-24	
Client ID:	**FL358-MW11-240619**					
Laboratory ID:	06-258-02					
Total Organic Carbon	**21**	1.0	SM 5310B	6-26-24	6-26-24	
Client ID:	**FL358-MW12-240619**					
Laboratory ID:	06-258-03					
Total Organic Carbon	**26**	1.0	SM 5310B	6-26-24	6-26-24	
Client ID:	**FL358-MW13-240619**					
Laboratory ID:	06-258-04					
Total Organic Carbon	**9.2**	1.0	SM 5310B	6-26-24	6-26-24	

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240619**					
Laboratory ID:	06-258-01					
Ammonia	**2.3**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	
Client ID:	**FL358-MW11-240619**					
Laboratory ID:	06-258-02					
Ammonia	**3.2**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	
Client ID:	**FL358-MW12-240619**					
Laboratory ID:	06-258-03					
Ammonia	**3.0**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	
Client ID:	**FL358-MW13-240619**					
Laboratory ID:	06-258-04					
Ammonia	**0.33**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240619**					
Laboratory ID:	06-258-01					
Nitrate	**0.096**	0.050	EPA 353.2	7-1-24	7-1-24	
Client ID:	**FL358-MW11-240619**					
Laboratory ID:	06-258-02					
Nitrate	**0.11**	0.050	EPA 353.2	7-1-24	7-1-24	
Client ID:	**FL358-MW12-240619**					
Laboratory ID:	06-258-03					
Nitrate	**0.13**	0.050	EPA 353.2	7-1-24	7-1-24	
Client ID:	**FL358-MW13-240619**					
Laboratory ID:	06-258-04					
Nitrate	**ND**	0.050	EPA 353.2	7-1-24	7-1-24	

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240619**					
Laboratory ID:	06-258-01					
Nitrite	**ND**	0.020	EPA 353.2	6-20-24	6-20-24	
Client ID:	**FL358-MW11-240619**					
Laboratory ID:	06-258-02					
Nitrite	**ND**	0.020	EPA 353.2	6-20-24	6-20-24	
Client ID:	**FL358-MW12-240619**					
Laboratory ID:	06-258-03					
Nitrite	**ND**	0.020	EPA 353.2	6-20-24	6-20-24	
Client ID:	**FL358-MW13-240619**					
Laboratory ID:	06-258-04					
Nitrite	**ND**	0.020	EPA 353.2	6-20-24	6-20-24	

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240619**					
Laboratory ID:	06-258-01					
Sulfate	**41**	20	ASTM D516-11	7-1-24	7-1-24	
Client ID:	**FL358-MW11-240619**					
Laboratory ID:	06-258-02					
Sulfate	**52**	20	ASTM D516-11	7-1-24	7-1-24	
Client ID:	**FL358-MW12-240619**					
Laboratory ID:	06-258-03					
Sulfate	**ND**	10	ASTM D516-11	7-1-24	7-1-24	
Client ID:	**FL358-MW13-240619**					
Laboratory ID:	06-258-04					
Sulfate	**ND**	5.0	ASTM D516-11	7-1-24	7-1-24	

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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240619**					
Laboratory ID:	06-258-01					
Chloride	**25**	2.0	SM 4500-Cl E	6-21-24	6-21-24	
Client ID:	**FL358-MW11-240619**					
Laboratory ID:	06-258-02					
Chloride	**27**	2.0	SM 4500-Cl E	6-21-24	6-21-24	
Client ID:	**FL358-MW12-240619**					
Laboratory ID:	06-258-03					
Chloride	**44**	2.0	SM 4500-Cl E	6-21-24	6-21-24	
Client ID:	**FL358-MW13-240619**					
Laboratory ID:	06-258-04					
Chloride	**47**	2.0	SM 4500-Cl E	6-21-24	6-21-24	

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-240619**					
Laboratory ID:	06-258-01					
Iron	**44000**	500	EPA 6010D	6-24-24	6-24-24	
Client ID:	**FL358-MW11-240619**					
Laboratory ID:	06-258-02					
Iron	**57000**	500	EPA 6010D	6-24-24	6-24-24	
Client ID:	**FL358-MW12-240619**					
Laboratory ID:	06-258-03					
Iron	**76000**	500	EPA 6010D	6-24-24	6-24-24	
Client ID:	**FL358-MW13-240619**					
Laboratory ID:	06-258-04					
Iron	**4500**	50	EPA 6010D	6-24-24	6-24-24	

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Project: 4082-039-03 Task 2200, subtask 03

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628W2					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	6-28-24	6-28-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Trichloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Tetrachloroethene	ND	0.20	EPA 8260D	6-28-24	6-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0628W2									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.7**	**10.1**	10.0	10.0	107	101	67-130	6	15	
1,1-Dichloroethene	**8.71**	**8.56**	10.0	10.0	87	86	74-125	2	15	
(trans) 1,2-Dichloroethene	**8.34**	**8.38**	10.0	10.0	83	84	77-125	0	15	
(cis) 1,2-Dichloroethene	**8.39**	**8.35**	10.0	10.0	84	84	78-130	0	15	
Trichloroethene	**9.09**	**9.05**	10.0	10.0	91	91	80-126	0	15	
Tetrachloroethene	**10.9**	**10.6**	10.0	10.0	109	106	80-125	3	15	
Surrogate:										
Dibromofluoromethane					*99*	*98*	*68-133*			
Toluene-d8					*98*	*98*	*79-123*			
4-Bromofluorobenzene					*97*	*96*	*78-117*			

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0626W1					
Methane	**ND**	0.55	RSK 175	6-26-24	6-26-24	
Ethane	**ND**	0.56	RSK 175	6-26-24	6-26-24	
Ethene	**ND**	0.58	RSK 175	6-26-24	6-26-24	
Acetylene	**ND**	3.1	RSK 175	6-26-24	6-26-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*88*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0626W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**45.9**	**44.4**	44.2	44.2	104	100	75-125	3	25	
Ethane	**86.5**	**82.4**	83.2	83.2	104	99	75-125	5	25	
Ethene	**81.9**	**75.8**	77.7	77.7	105	98	75-125	8	25	
Acetylene	**56.4**	**53.5**	72.0	72.0	78	74	60-140	5	25	
Surrogate:										
1-Butene					*111*	*101*	*50-150*			

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0626W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	6-26-24	6-26-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-244-04								
	ORIG	DUP							
Total Organic Carbon	**9.46**	**10.6**	NA	NA	NA	NA	11	11	
MATRIX SPIKE									
Laboratory ID:	06-244-04								
	MS		MS		MS				
Total Organic Carbon	**18.9**		10.0	9.46	94	85-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0626W1								
	SB		SB		SB				
Total Organic Carbon	**11.0**		10.0	NA	110	79-120	NA	NA	

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	6-24-24	6-24-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-177-02								
	ORIG	DUP							
Ammonia	**ND**	**ND**	NA	NA	NA	NA	NA	15	
MATRIX SPIKE									
Laboratory ID:	06-177-02								
	MS		MS		MS				
Ammonia	**4.90**		5.00	ND	98	75-111	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0624W1								
	SB		SB		SB				
Ammonia	**4.82**		5.00	NA	96	81-110	NA	NA	

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Nitrate	**ND**	0.050	EPA 353.2	7-1-24	7-1-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-257-01								
	ORIG	DUP							
Nitrate	**0.622**	**0.612**	NA	NA	NA	NA	2	22	
MATRIX SPIKE									
Laboratory ID:	06-257-01								
	MS		MS		MS				
Nitrate	**2.64**		2.00	0.622	101	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0701W1								
	SB		SB		SB				
Nitrate	**2.02**		2.00	NA	101	85-117	NA	NA	

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0620W1					
Nitrite	**ND**	0.020	EPA 353.2	6-20-24	6-20-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-257-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	06-257-01							
	MS	MS		MS				
Nitrite	**0.265**	0.250	ND	106	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0620W1							
	SB	SB		SB				
Nitrite	**0.264**	0.250	NA	106	91-116	NA	NA	

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Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Sulfate	**ND**	5.0	ASTM D516-11	7-1-24	7-1-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-244-04							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	06-244-04							
	MS	MS		MS				
Sulfate	**11.1**	10.0	ND	111	69-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Sulfate	**9.78**	10.0	NA	98	81-106	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0621W1					
Chloride	**ND**	2.0	SM 4500-Cl E	6-21-24	6-21-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-244-04							
	ORIG DUP							
Chloride	**10.2** **9.32**	NA	NA	NA	NA	9	21	
MATRIX SPIKE								
Laboratory ID:	06-244-04							
	MS	MS		MS				
Chloride	**64.7**	50.0	10.2	109	81-115	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0621W1							
	SB	SB		SB				
Chloride	**50.5**	50.0	NA	101	77-115	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 2, 2024
Samples Submitted: June 20, 2024
Laboratory Reference: 2406-258
Project: 4082-039-03 Task 2200, subtask 03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624WH1					
Iron	**ND**	50	EPA 6010D	6-24-24	6-24-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	06-267-01										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	06-267-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**21700**	**21600**	20000	20000	ND	**108**	**108**	75-125	0	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

June 25, 2024

David Baumeister
14648 NE 95th ST
Redmond, WA 98052

Project: OSE
Project Number: 4082-039-03 T2200
Project Manager: David Baumeister
RE: OSE

Enclosed are the results of analyses for samples received by our laboratory on 6/20/2024.
Please feel free to contact me with any questions or considerations regarding this report.

Sincerely,

ElementStationManager For Aaron Young
President

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 06/20/24
Date Reported: 06/25/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T2200

All results reported on an as received basis.

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A24F0411-01	FL358-MW7-240619	Water	S	06/19/2024	06/20/2024
A24F0411-02	FL358-MW11-240619	Water	S	06/19/2024	06/20/2024
A24F0411-03	FL358-MW12-240619	Water	S	06/19/2024	06/20/2024
A24F0411-04	FL358-MW13-240619	Water		06/19/2024	06/20/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/20/24
Date Reported: 06/25/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T2200

All results reported on an as received basis.

AMTEST Identification Number: A24F0411-01
Client Identification: FL358-MW7-240619
Sampling Date: 06/19/24 15:45

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	6	mg/L		2	SM 5210B_2011	JM	06/20/2024

AMTEST Identification Number: A24F0411-02
Client Identification: FL358-MW11-240619
Sampling Date: 06/19/24 13:30

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	2	mg/L		2	SM 5210B_2011	JM	06/20/2024

AMTEST Identification Number: A24F0411-03
Client Identification: FL358-MW12-240619
Sampling Date: 06/19/24 11:40

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	8	mg/L		2	SM 5210B_2011	JM	06/20/2024

AMTEST Identification Number: A24F0411-04
Client Identification: FL358-MW13-240619
Sampling Date: 06/19/24 14:20

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand	2	mg/L		2	SM 5210B_2011	JM	06/20/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/20/24
Date Reported: 06/25/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T2200

All results reported on an as received basis.

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0351 - No Prep - WetChem										
Calibration Blank (BBF0351-CCB1)					Prepared & Analyzed: 06/20/24					
Biological Oxygen Demand	0	U		mg/L						
Duplicate (BBF0351-DUP2)		**Source: A24F0411-04**			Prepared & Analyzed: 06/20/24					
Biological Oxygen Demand	ND	U	2	mg/L		ND				25

Notes and Definitions

Item	Definition
S	The sample did not meet the method specification of 2 ppm depletion.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

A24F0411-

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 06-258

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03 T2200

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW7-240619	6/19/24	15:45	W	1	BOD SM521B
02	FL358-MW11-240619	6/19/24	13:30	W	1	BOD SM521B
03	FL358-MW12-240619	6/19/24	11:40	W	1	BOD SM521B
04	FL358-MW13-240619	6/19/24	14:20	W	1	BOD SM521B

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	Onsite Env.	6-20-24	2.25p	
Received by: AJ	AmTest	6-20-24	14:31	
Relinquished by:				10-Le
Received by:				**EDDs**
Relinquished by:				
Received by:				

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 06-258

Company: GeoEngineers
Project Number: 4082-039-03 Task 2200 subtask 03
Project Name: FL358
Project Manager: Katy Atakturk and Tricia DeOme
Sampled by: James Kohn & Meredith Bush

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW7-240619	6/19/24	1545	W	8																		X		X	X	
2	FL358-MW11-240619	6/19/24	1330	W	8																		X		X	X	
3	FL358-MW12-240619	6/19/24	1140	W	8																		X		X	X	
4	FL358-MW13-240619	6/19/24	1420	W	8																		X		X	X	
	~~FL358-MW~~	~~6/ /24~~		~~W~~																			~~X~~		~~X~~	~~X~~	
	~~FL358-MW~~	~~6/ /24~~		~~W~~																			X		X	X	
	~~FL358-DUP~~	~~6/ /24~~		~~W~~																			~~X~~		~~X~~	~~X~~	
5	FL358-RB-240619	6/19/24	1610	W	3																		X				
6	FL358-TB-240619	6/19/24	--	W	3																		X				

	Signature	Company	Date	Time
Relinquished		C-E1	6/20/24	0805
Received		SPDM	6/20/24	0905
Relinquished		SPDM	6/20/24	1235
Received		CORE	6/20/24	1235
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 6, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03 T22.03
Laboratory Reference No. 2412-342

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on December 20, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

Case Narrative

Samples were collected on December 19 and 20, 2024 and received by the laboratory on December 20, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW8-241219	12-342-01	Water	12-19-24	12-20-24	
FL358-MW19-241219	12-342-02	Water	12-19-24	12-20-24	
FL358-MW10-241220	12-342-03	Water	12-20-24	12-20-24	
FL358-RBI-241220	12-342-04	Water	12-20-24	12-20-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-241219**					
Laboratory ID:	12-342-01					
Vinyl Chloride	ND	0.20	EPA 8260D	12-24-24	12-24-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Trichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**FL358-MW19-241219**					
Laboratory ID:	12-342-02					
Vinyl Chloride	ND	0.20	EPA 8260D	12-24-24	12-24-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(cis) 1,2-Dichloroethene	0.44	0.20	EPA 8260D	12-24-24	12-24-24	
Trichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**FL358-MW10-241220**					
Laboratory ID:	12-342-03					
Vinyl Chloride	ND	0.20	EPA 8260D	12-24-24	12-24-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(cis) 1,2-Dichloroethene	0.51	0.20	EPA 8260D	12-24-24	12-24-24	
Trichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-RB1-241220**					
Laboratory ID:	12-342-04					
Vinyl Chloride	ND	0.20	EPA 8260D	12-24-24	12-24-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Trichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-241219**					
Laboratory ID:	12-342-01					
Iron	**420**	50	EPA 6010D	12-31-24	12-31-24	
Client ID:	**FL358-MW19-241219**					
Laboratory ID:	12-342-02					
Iron	**36000**	250	EPA 6010D	12-31-24	1-2-25	
Client ID:	**FL358-MW10-241220**					
Laboratory ID:	12-342-03					
Iron	**42000**	250	EPA 6010D	12-31-24	1-2-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-241219**					
Laboratory ID:	12-342-01					
Chloride	**30**	2.0	SM 4500-Cl E	12-23-24	12-23-24	
Client ID:	**FL358-MW19-241219**					
Laboratory ID:	12-342-02					
Chloride	**18**	2.0	SM 4500-Cl E	12-23-24	12-23-24	
Client ID:	**FL358-MW10-241220**					
Laboratory ID:	12-342-03					
Chloride	**21**	2.0	SM 4500-Cl E	12-23-24	12-23-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-241219**					
Laboratory ID:	12-342-01					
Methane	**190**	1.1	RSK 175	12-31-24	12-31-24	
Ethane	**ND**	0.56	RSK 175	12-31-24	12-31-24	
Ethene	**ND**	0.58	RSK 175	12-31-24	12-31-24	
Acetylene	**ND**	3.1	RSK 175	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*89*	*50-150*				
Client ID:	**FL358-MW19-241219**					
Laboratory ID:	12-342-02					
Methane	**4300**	42	RSK 175	12-31-24	12-31-24	
Ethane	**ND**	0.56	RSK 175	12-31-24	12-31-24	
Ethene	**ND**	0.58	RSK 175	12-31-24	12-31-24	
Acetylene	**ND**	3.1	RSK 175	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*106*	*50-150*				
Client ID:	**FL358-MW10-241220**					
Laboratory ID:	12-342-03					
Methane	**3900**	42	RSK 175	12-31-24	12-31-24	
Ethane	**ND**	0.56	RSK 175	12-31-24	12-31-24	
Ethene	**ND**	0.58	RSK 175	12-31-24	12-31-24	
Acetylene	**ND**	3.1	RSK 175	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*101*	*50-150*				

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-241219**					
Laboratory ID:	12-342-01					
Ammonia	**ND**	0.053	SM 4500-NH3 D	12-23-24	12-23-24	
Client ID:	**FL358-MW19-241219**					
Laboratory ID:	12-342-02					
Ammonia	**0.53**	0.053	SM 4500-NH3 D	12-23-24	12-23-24	
Client ID:	**FL358-MW10-241220**					
Laboratory ID:	12-342-03					
Ammonia	**1.1**	0.053	SM 4500-NH3 D	12-23-24	12-23-24	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-241219**					
Laboratory ID:	12-342-01					
Nitrate	**ND**	0.050	EPA 353.2	12-24-24	12-24-24	
Client ID:	**FL358-MW19-241219**					
Laboratory ID:	12-342-02					
Nitrate	**0.057**	0.050	EPA 353.2	12-24-24	12-24-24	
Client ID:	**FL358-MW10-241220**					
Laboratory ID:	12-342-03					
Nitrate	**ND**	0.050	EPA 353.2	12-24-24	12-24-24	

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-241219**					
Laboratory ID:	12-342-01					
Nitrite	**ND**	0.020	EPA 353.2	12-20-24	12-20-24	
Client ID:	**FL358-MW19-241219**					
Laboratory ID:	12-342-02					
Nitrite	**ND**	0.020	EPA 353.2	12-20-24	12-20-24	
Client ID:	**FL358-MW10-241220**					
Laboratory ID:	12-342-03					
Nitrite	**ND**	0.020	EPA 353.2	12-20-24	12-20-24	

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-241219**					
Laboratory ID:	12-342-01					
Sulfate	**9.7**	5.0	ASTM D516-11	12-27-24	12-27-24	
Client ID:	**FL358-MW19-241219**					
Laboratory ID:	12-342-02					
Sulfate	**7.7**	5.0	ASTM D516-11	12-27-24	12-27-24	
Client ID:	**FL358-MW10-241220**					
Laboratory ID:	12-342-03					
Sulfate	**ND**	5.0	ASTM D516-11	12-27-24	12-27-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW8-241219**					
Laboratory ID:	12-342-01					
Total Organic Carbon	**4.3**	1.0	SM 5310B	12-23-24	12-24-24	
Client ID:	**FL358-MW19-241219**					
Laboratory ID:	12-342-02					
Total Organic Carbon	**15**	1.0	SM 5310B	12-23-24	12-24-24	
Client ID:	**FL358-MW10-241220**					
Laboratory ID:	12-342-03					
Total Organic Carbon	**12**	1.0	SM 5310B	12-23-24	12-24-24	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1224W1					
Vinyl Chloride	ND	0.20	EPA 8260D	12-24-24	12-24-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Trichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1224W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.62**	**9.59**	10.0	10.0	96	96	67-130	0	15	
1,1-Dichloroethene	**9.82**	**9.63**	10.0	10.0	98	96	74-125	2	15	
(trans) 1,2-Dichloroethene	**9.68**	**9.60**	10.0	10.0	97	96	77-125	1	15	
(cis) 1,2-Dichloroethene	**10.0**	**10.0**	10.0	10.0	100	100	78-130	0	15	
Trichloroethene	**10.4**	**10.5**	10.0	10.0	104	105	80-126	1	15	
Tetrachloroethene	**10.0**	**9.85**	10.0	10.0	100	99	80-125	2	15	
Surrogate:										
Dibromofluoromethane					*104*	*105*	*68-133*			
Toluene-d8					*104*	*106*	*79-123*			
4-Bromofluorobenzene					*97*	*99*	*78-117*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1231WH1					
Iron	**ND**	50	EPA 6010D	12-31-24	12-31-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-279-02										
	ORIG	DUP									
Iron	**435**	**418**	NA	NA		NA		NA	4	20	
MATRIX SPIKES											
Laboratory ID:	12-279-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**21500**	**20300**	20000	20000	435	**105**	**99**	75-125	6	20	

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1223W1					
Chloride	**ND**	2.0	SM 4500-Cl E	12-23-24	12-23-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-199-05								
	ORIG	DUP							
Chloride	**66.1**	**64.9**	NA	NA	NA	NA	2	21	
MATRIX SPIKE									
Laboratory ID:	12-199-05								
	MS		MS		MS				
Chloride	**175**		100.0	66.1	109	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1223W1								
	SB		SB		SB				
Chloride	**51.8**		50.0	NA	104	77-115	NA	NA	

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1231W1					
Methane	**ND**	0.55	RSK 175	12-31-24	12-31-24	
Ethane	**ND**	0.56	RSK 175	12-31-24	12-31-24	
Ethene	**ND**	0.58	RSK 175	12-31-24	12-31-24	
Acetylene	**ND**	3.1	RSK 175	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*128*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB1231W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**33.6**	**38.3**	44.2	44.2	76	87	75-125	13	25	
Ethane	**65.9**	**75.1**	83.2	83.2	79	90	75-125	13	25	
Ethene	**68.7**	**77.0**	77.7	77.7	88	99	75-125	11	25	
Acetylene	**45.2**	**49.7**	72.0	72.0	63	69	60-140	9	25	
Surrogate:										
1-Butene					*88*	*99*	*50-150*			

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1224W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	12-23-24	12-23-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-199-05							
	ORIG DUP							
Ammonia	**ND** **ND**	NA	NA	NA	NA	NA	15	
MATRIX SPIKE								
Laboratory ID:	12-199-05							
	MS	MS		MS				
Ammonia	**4.83**	5.00	ND	97	75-111	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1224W1							
	SB	SB		SB				
Ammonia	**5.20**	5.00	NA	104	81-110	NA	NA	

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1224W2					
Nitrate	**ND**	0.050	EPA 353.2	12-24-24	12-24-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-199-05								
	ORIG	DUP							
Nitrate	**8.56**	**9.26**	NA	NA	NA	NA	8	22	
MATRIX SPIKE									
Laboratory ID:	12-199-05								
	MS		MS		MS				
Nitrate	**18.8**		10.00	8.56	102	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1224W2								
	SB		SB		SB				
Nitrate	**1.89**		2.00	NA	95	85-117	NA	NA	

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1220W1					
Nitrite	**ND**	0.020	EPA 353.2	12-20-24	12-20-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-332-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	12-332-01							
	MS	MS		MS				
Nitrite	**0.283**	0.250	ND	113	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1220W1							
	SB	SB		SB				
Nitrite	**0.285**	0.250	NA	114	91-116	NA	NA	

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
Sulfate	**ND**	5.0	ASTM D516-11	12-27-24	12-27-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-332-01							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	12-332-01							
	MS	MS		MS				
Sulfate	**8.61**	10.0	ND	86	69-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1227W1							
	SB	SB		SB				
Sulfate	**9.41**	10.0	NA	94	81-106	NA	NA	

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Date of Report: January 6, 2025
Samples Submitted: December 20, 2024
Laboratory Reference: 2412-342
Project: 4082-039-03 T22.03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1223W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	12-23-24	12-23-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-199-05								
	ORIG	DUP							
Total Organic Carbon	**2.91**	**2.68**	NA	NA	NA	NA	8	11	
MATRIX SPIKE									
Laboratory ID:	12-199-05								
	MS		MS		MS				
Total Organic Carbon	**11.7**		10.0	2.91	88	85-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1223W1								
	SB		SB		SB				
Total Organic Carbon	**9.88**		10.0	NA	99	79-120	NA	NA	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 0462-039-03 T 22.03
Project Name: FL358
Project Manager: BRITTANY WAITE
Sampled by: JAK + DK

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-342

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	~~FL358~~-MW8-241219	12/19/24	1120	W	10
2	FL358-MW19-241219	12/19/24	1405	W	10
3	FL358 - MW10-241220	12/20/24	1245	W	9
4	FL358 - RB1-241220	"	1330	W	3

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260 PCE + Breakdown Prod.	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	~~Total MTCA Metals~~ 6010B (Total Iron)	TCLP Metals	~~HEM (oil and grease) 1664~~ Chloride	Dissolved Gases (RSK175)*	Ammonia	Nitrate/Nitrite/Sulfate	TOC - SM 5310B	% Moisture
1		⊗				X									X		X	X	X	X	X	
2						↓									↓		↓	↓	↓	↓	↓	
3						↓									↓		↓	↓	↓	↓	↓	
4						↓																

	Signature	Company	Date	Time
Relinquished		GEI	12/20/24	1453.
Received		GSE	12/20/24	1453
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* Dissolved Gases → ethane, ethene, methane, acetylene.

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 7, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2412-358

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on December 23, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

Case Narrative

Samples were collected on December 23, 2024 and received by the laboratory on December 23, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW6-241223	12-358-01	Water	12-23-24	12-23-24	
FL358-MW9-241223	12-358-02	Water	12-23-24	12-23-24	
FL358-MW14-241223	12-358-03	Water	12-23-24	12-23-24	
FL358-RB1-241223	12-358-04	Water	12-23-24	12-23-24	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-241223**					
Laboratory ID:	12-358-01					
Vinyl Chloride	0.56	0.40	EPA 8260D	12-24-24	12-24-24	
1,1-Dichloroethene	ND	0.40	EPA 8260D	12-24-24	12-24-24	
(trans) 1,2-Dichloroethene	0.79	0.40	EPA 8260D	12-24-24	12-24-24	
(cis) 1,2-Dichloroethene	73	0.40	EPA 8260D	12-24-24	12-24-24	
Trichloroethene	100	1.0	EPA 8260D	12-24-24	12-24-24	
Tetrachloroethene	2.5	0.40	EPA 8260D	12-24-24	12-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-MW9-241223**					
Laboratory ID:	12-358-02					
Vinyl Chloride	0.26	0.20	EPA 8260D	12-24-24	12-24-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(cis) 1,2-Dichloroethene	3.4	0.20	EPA 8260D	12-24-24	12-24-24	
Trichloroethene	0.34	0.20	EPA 8260D	12-24-24	12-24-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-MW14-241223**					
Laboratory ID:	12-358-03					
Vinyl Chloride	1.5	0.20	EPA 8260D	12-24-24	12-24-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(cis) 1,2-Dichloroethene	8.0	0.20	EPA 8260D	12-24-24	12-24-24	
Trichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-RB1-241223**					
Laboratory ID:	12-358-04					
Vinyl Chloride	ND	0.20	EPA 8260D	12-24-24	12-24-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Trichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-241223**					
Laboratory ID:	12-358-01					
Methane	**580**	5.5	RSK 175	12-31-24	12-31-24	
Ethane	**ND**	0.56	RSK 175	12-31-24	12-31-24	
Ethene	**ND**	0.58	RSK 175	12-31-24	12-31-24	
Acetylene	**ND**	3.1	RSK 175	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*100*	*50-150*				
Client ID:	**FL358-MW9-241223**					
Laboratory ID:	12-358-02					
Methane	**3500**	33	RSK 175	12-31-24	12-31-24	
Ethane	**ND**	0.56	RSK 175	12-31-24	12-31-24	
Ethene	**ND**	0.58	RSK 175	12-31-24	12-31-24	
Acetylene	**ND**	3.1	RSK 175	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*100*	*50-150*				
Client ID:	**FL358-MW14-241223**					
Laboratory ID:	12-358-03					
Methane	**71**	2.2	RSK 175	12-31-24	12-31-24	
Ethane	**ND**	0.56	RSK 175	12-31-24	12-31-24	
Ethene	**ND**	0.58	RSK 175	12-31-24	12-31-24	
Acetylene	**ND**	3.1	RSK 175	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*108*	*50-150*				

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-241223**					
Laboratory ID:	12-358-01					
Total Organic Carbon	**8.8**	1.0	SM 5310B	12-23-24	12-24-24	
Client ID:	**FL358-MW9-241223**					
Laboratory ID:	12-358-02					
Total Organic Carbon	**13**	1.0	SM 5310B	12-23-24	12-24-24	
Client ID:	**FL358-MW14-241223**					
Laboratory ID:	12-358-03					
Total Organic Carbon	**11**	1.0	SM 5310B	12-23-24	12-24-24	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-241223**					
Laboratory ID:	12-358-01					
Iron	**1200**	50	EPA 6010D	12-31-24	12-31-24	
Client ID:	**FL358-MW9-241223**					
Laboratory ID:	12-358-02					
Iron	**56000**	250	EPA 6010D	12-31-24	12-31-24	
Client ID:	**FL358-MW14-241223**					
Laboratory ID:	12-358-03					
Iron	**5700**	50	EPA 6010D	12-31-24	12-31-24	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-241223**					
Laboratory ID:	12-358-01					
Sulfate	**13**	5.0	ASTM D516-11	12-27-24	12-27-24	
Client ID:	**FL358-MW9-241223**					
Laboratory ID:	12-358-02					
Sulfate	**ND**	5.0	ASTM D516-11	12-27-24	12-27-24	
Client ID:	**FL358-MW14-241223**					
Laboratory ID:	12-358-03					
Sulfate	**6.7**	5.0	ASTM D516-11	12-27-24	12-27-24	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-241223**					
Laboratory ID:	12-358-01					
Chloride	**28**	2.0	SM 4500-Cl E	12-30-24	12-30-24	
Client ID:	**FL358-MW9-241223**					
Laboratory ID:	12-358-02					
Chloride	**26**	2.0	SM 4500-Cl E	12-30-24	12-30-24	
Client ID:	**FL358-MW14-241223**					
Laboratory ID:	12-358-03					
Chloride	**30**	2.0	SM 4500-Cl E	12-30-24	12-30-24	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-241223**					
Laboratory ID:	12-358-01					
Nitrate	**ND**	0.050	EPA 353.2	12-24-24	12-24-24	
Client ID:	**FL358-MW9-241223**					
Laboratory ID:	12-358-02					
Nitrate	**0.18**	0.050	EPA 353.2	12-24-24	12-24-24	
Client ID:	**FL358-MW14-241223**					
Laboratory ID:	12-358-03					
Nitrate	**0.072**	0.050	EPA 353.2	12-24-24	12-24-24	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-241223**					
Laboratory ID:	12-358-01					
Nitrite	**ND**	0.020	EPA 353.2	12-24-24	12-24-24	
Client ID:	**FL358-MW9-241223**					
Laboratory ID:	12-358-02					
Nitrite	**ND**	0.020	EPA 353.2	12-24-24	12-24-24	
Client ID:	**FL358-MW14-241223**					
Laboratory ID:	12-358-03					
Nitrite	**ND**	0.020	EPA 353.2	12-24-24	12-24-24	

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Date of Report: January 7, 2025
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Laboratory Reference: 2412-358
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-241223**					
Laboratory ID:	12-358-01					
Ammonia	**0.11**	0.053	SM 4500-NH3 D	12-30-24	12-30-24	
Client ID:	**FL358-MW9-241223**					
Laboratory ID:	12-358-02					
Ammonia	**2.1**	0.053	SM 4500-NH3 D	12-30-24	12-30-24	
Client ID:	**FL358-MW14-241223**					
Laboratory ID:	12-358-03					
Ammonia	**0.12**	0.053	SM 4500-NH3 D	12-30-24	12-30-24	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1224W1					
Vinyl Chloride	ND	0.20	EPA 8260D	12-24-24	12-24-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Trichloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-24-24	12-24-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1224W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.62**	**9.59**	10.0	10.0	96	96	67-130	0	15	
1,1-Dichloroethene	**9.82**	**9.63**	10.0	10.0	98	96	74-125	2	15	
(trans) 1,2-Dichloroethene	**9.68**	**9.60**	10.0	10.0	97	96	77-125	1	15	
(cis) 1,2-Dichloroethene	**10.0**	**10.0**	10.0	10.0	100	100	78-130	0	15	
Trichloroethene	**10.4**	**10.5**	10.0	10.0	104	105	80-126	1	15	
Tetrachloroethene	**10.0**	**9.85**	10.0	10.0	100	99	80-125	2	15	
Surrogate:										
Dibromofluoromethane					*104*	*105*	*68-133*			
Toluene-d8					*104*	*106*	*79-123*			
4-Bromofluorobenzene					*97*	*99*	*78-117*			

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1231W1					
Methane	**ND**	0.55	RSK 175	12-31-24	12-31-24	
Ethane	**ND**	0.56	RSK 175	12-31-24	12-31-24	
Ethene	**ND**	0.58	RSK 175	12-31-24	12-31-24	
Acetylene	**ND**	3.1	RSK 175	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*128*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB1231W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**33.6**	**38.3**	44.2	44.2	76	87	75-125	13	25	
Ethane	**65.9**	**75.1**	83.2	83.2	79	90	75-125	13	25	
Ethene	**68.7**	**77.0**	77.7	77.7	88	99	75-125	11	25	
Acetylene	**45.2**	**49.7**	72.0	72.0	63	69	60-140	9	25	
Surrogate:										
1-Butene					*88*	*99*	*50-150*			

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1223W2					
Total Organic Carbon	**ND**	1.0	SM 5310B	12-23-24	12-24-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-276-01								
	ORIG	DUP							
Total Organic Carbon	**7.51**	**7.85**	NA	NA	NA	NA	4	11	
MATRIX SPIKE									
Laboratory ID:	12-276-01								
	MS		MS		MS				
Total Organic Carbon	**18.4**		10.0	7.51	109	85-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1223W2								
	SB		SB		SB				
Total Organic Carbon	**11.0**		10.0	NA	110	79-120	NA	NA	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1231WH1					
Iron	**ND**	50	EPA 6010D	12-31-24	12-31-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-279-02										
	ORIG	DUP									
Iron	**435**	**418**	NA	NA		NA		NA	4	20	
MATRIX SPIKES											
Laboratory ID:	12-279-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**21500**	**20300**	20000	20000	435	**105**	**99**	75-125	6	20	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
Sulfate	**ND**	5.0	ASTM D516-11	12-27-24	12-27-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-332-01							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	12-332-01							
	MS	MS		MS				
Sulfate	**8.61**	10.0	ND	86	69-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1227W1							
	SB	SB		SB				
Sulfate	**9.41**	10.0	NA	94	81-106	NA	NA	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1230W1					
Chloride	**ND**	2.0	SM 4500-Cl E	12-30-24	12-30-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-358-01								
	ORIG	DUP							
Chloride	**28.2**	**28.3**	NA	NA	NA	NA	0	21	
MATRIX SPIKE									
Laboratory ID:	12-358-01								
	MS		MS		MS				
Chloride	**85.6**		50.0	28.2	115	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1230W1								
	SB		SB		SB				
Chloride	**52.4**		50.0	NA	105	77-115	NA	NA	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1224W1					
Nitrate	**ND**	0.050	EPA 353.2	12-24-24	12-24-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-358-01							
	ORIG DUP							
Nitrate	**ND** **ND**	NA	NA	NA	NA	NA	22	
MATRIX SPIKE								
Laboratory ID:	12-358-01							
	MS	MS		MS				
Nitrate	**2.14**	2.00	ND	107	86-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1224W1							
	SB	SB		SB				
Nitrate	**2.06**	2.00	NA	103	85-117	NA	NA	

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Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1224W1					
Nitrite	**ND**	0.020	EPA 353.2	12-24-24	12-24-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-358-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	12-358-01							
	MS	MS		MS				
Nitrite	**0.291**	0.250	ND	116	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1224W1							
	SB	SB		SB				
Nitrite	**0.282**	0.250	NA	113	91-116	NA	NA	

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 7, 2025
Samples Submitted: December 23, 2024
Laboratory Reference: 2412-358
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1230W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	12-30-24	12-30-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-358-01								
	ORIG	DUP							
Ammonia	**0.112**	**0.129**	NA	NA	NA	NA	14	15	
MATRIX SPIKE									
Laboratory ID:	12-358-01								
	MS		MS		MS				
Ammonia	**5.24**		5.00	0.112	103	75-111	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1230W1								
	SB		SB		SB				
Ammonia	**5.33**		5.00	NA	107	81-110	NA	NA	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 0482-039-03
Project Name: FL358 C-WM
Project Manager: BRITTANY WAITE
Sampled by: JAK

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-358

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 PRIORITY VOCs	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	RSK-175	GEN CHEM			% Moisture
1	FL358-MW6-241223	12/23/24	1145	W	10					X													X	X			
2	FL358-MW9-241223	↓	915	↓	10					X													X	X			
3	FL358-MW14-241223		1020		10					X													X	X			
4	FL358-RB1-241223		1210		3					X																	

	Signature	Company	Date	Time
Relinquished		GEI	12/23/24	1318
Received		COC	12/23/24	1318
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
VOCs: PLE, TLE, CDLE, TDLE, VC
1,1-DLE
RSK 175: ETHANE, ETHENE, METHANE, ACETYLENE
GEN CHEM: TOC, ~~BOD~~ NO3 as N, TOTAL Fe, SULFATE, CHLORIDE, NITRATE, NITRITE, AMMONIA

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 9, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2412-417

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on December 31, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

Case Narrative

Samples were collected on December 30 and 31, 2024 and received by the laboratory on December 31, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW12-241230	12-417-01	Water	12-30-24	12-31-24	
FL358-MW13-241230	12-417-02	Water	12-30-24	12-31-24	
FL358-MW15-241230	12-417-03	Water	12-30-24	12-31-24	
FL358-MW22-241230	12-417-04	Water	12-30-24	12-31-24	
FL358-MW25-241230	12-417-05	Water	12-30-24	12-31-24	
FL358-MW7-241230	12-417-06	Water	12-30-24	12-31-24	
FL358-MW21-241230	12-417-07	Water	12-30-24	12-31-24	
FL358-RB-241230	12-417-08	Water	12-30-24	12-31-24	
FL358-TB-241231	12-417-09	Water	---	12-31-24	
FL358-MW20-241231	12-417-10	Water	12-31-24	12-31-24	
FL358-MW24-241231	12-417-11	Water	12-31-24	12-31-24	
FL358-MW5A-241231	12-417-12	Water	12-31-24	12-31-24	
FL358-MW5B-241231	12-417-13	Water	12-31-24	12-31-24	
FL358-RB-241231	12-417-14	Water	12-31-24	12-31-24	
FL358-DUP-241231	12-417-15	Water	12-31-24	12-31-24	

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-241230**					
Laboratory ID:	12-417-01					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*93*	*78-117*				
Client ID:	**FL358-MW13-241230**					
Laboratory ID:	12-417-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	2.1	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	3.0	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**FL358-MW15-241230**					
Laboratory ID:	12-417-03					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW22-241230**					
Laboratory ID:	12-417-04					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				
Client ID:	**FL358-MW25-241230**					
Laboratory ID:	12-417-05					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-MW7-241230**					
Laboratory ID:	12-417-06					
Vinyl Chloride	3.7	2.0	EPA 8260D	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	3.5	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW21-241230**					
Laboratory ID:	12-417-07					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*97*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-RB-241230**					
Laboratory ID:	12-417-08					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-TB-241231**					
Laboratory ID:	12-417-09					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW20-241231**					
Laboratory ID:	12-417-10					
Vinyl Chloride (SIM)	0.50	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-MW24-241231**					
Laboratory ID:	12-417-11					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*95*	*78-117*				
Client ID:	**FL358-MW5A-241231**					
Laboratory ID:	12-417-12					
Vinyl Chloride	3.4	2.0	EPA 8260D	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	45	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	63	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	55	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5B-241231**					
Laboratory ID:	12-417-13					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-RB-241231**					
Laboratory ID:	12-417-14					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-DUP-241231**					
Laboratory ID:	12-417-15					
Vinyl Chloride	3.8	2.0	EPA 8260D	1-2-25	1-2-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	47	2.0	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	64	2.0	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	52	2.0	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-241230**					
Laboratory ID:	12-417-01					
Methane	**4100**	33	RSK 175	1-7-25	1-7-25	
Ethane	**ND**	0.56	RSK 175	1-7-25	1-7-25	
Ethene	**ND**	0.58	RSK 175	1-7-25	1-7-25	
Acetylene	**ND**	3.1	RSK 175	1-7-25	1-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*117*	*50-150*				
Client ID:	**FL358-MW13-241230**					
Laboratory ID:	12-417-02					
Methane	**61**	0.55	RSK 175	1-7-25	1-7-25	
Ethane	**ND**	0.56	RSK 175	1-7-25	1-7-25	
Ethene	**ND**	0.58	RSK 175	1-7-25	1-7-25	
Acetylene	**ND**	3.1	RSK 175	1-7-25	1-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*94*	*50-150*				
Client ID:	**FL358-MW15-241230**					
Laboratory ID:	12-417-03					
Methane	**450**	8.3	RSK 175	1-7-25	1-7-25	
Ethane	**ND**	0.56	RSK 175	1-7-25	1-7-25	
Ethene	**ND**	0.58	RSK 175	1-7-25	1-7-25	
Acetylene	**ND**	3.1	RSK 175	1-7-25	1-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*76*	*50-150*				
Client ID:	**FL358-MW22-241230**					
Laboratory ID:	12-417-04					
Methane	**3900**	33	RSK 175	1-7-25	1-7-25	
Ethane	**ND**	0.56	RSK 175	1-7-25	1-7-25	
Ethene	**ND**	0.58	RSK 175	1-7-25	1-7-25	
Acetylene	**ND**	3.1	RSK 175	1-7-25	1-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*114*	*50-150*				

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DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW25-241230**					
Laboratory ID:	12-417-05					
Methane	**240**	1.7	RSK 175	1-7-25	1-7-25	
Ethane	**ND**	0.56	RSK 175	1-7-25	1-7-25	
Ethene	**ND**	0.58	RSK 175	1-7-25	1-7-25	
Acetylene	**ND**	3.1	RSK 175	1-7-25	1-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*138*	*50-150*				
Client ID:	**FL358-MW7-241230**					
Laboratory ID:	12-417-06					
Methane	**320**	8.3	RSK 175	1-7-25	1-7-25	
Ethane	**ND**	0.56	RSK 175	1-7-25	1-7-25	
Ethene	**ND**	0.58	RSK 175	1-7-25	1-7-25	
Acetylene	**ND**	3.1	RSK 175	1-7-25	1-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*142*	*50-150*				
Client ID:	**FL358-MW21-241230**					
Laboratory ID:	12-417-07					
Methane	**4700**	33	RSK 175	1-7-25	1-7-25	
Ethane	**ND**	0.56	RSK 175	1-7-25	1-7-25	
Ethene	**ND**	0.58	RSK 175	1-7-25	1-7-25	
Acetylene	**ND**	3.1	RSK 175	1-7-25	1-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*108*	*50-150*				
Client ID:	**FL358-MW20-241231**					
Laboratory ID:	12-417-10					
Methane	**2200**	17	RSK 175	1-7-25	1-7-25	
Ethane	**ND**	0.56	RSK 175	1-7-25	1-7-25	
Ethene	**ND**	0.58	RSK 175	1-7-25	1-7-25	
Acetylene	**ND**	3.1	RSK 175	1-7-25	1-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*110*	*50-150*				

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DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW24-241231**					
Laboratory ID:	12-417-11					
Methane	**330**	2.8	RSK 175	1-8-25	1-8-25	
Ethane	**ND**	0.56	RSK 175	1-8-25	1-8-25	
Ethene	**ND**	0.58	RSK 175	1-8-25	1-8-25	
Acetylene	**ND**	3.1	RSK 175	1-8-25	1-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*81*	*50-150*				
Client ID:	**FL358-MW5A-241231**					
Laboratory ID:	12-417-12					
Methane	**630**	5.5	RSK 175	1-8-25	1-8-25	
Ethane	**ND**	0.56	RSK 175	1-8-25	1-8-25	
Ethene	**ND**	0.58	RSK 175	1-8-25	1-8-25	
Acetylene	**ND**	3.1	RSK 175	1-8-25	1-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*133*	*50-150*				
Client ID:	**FL358-MW5B-241231**					
Laboratory ID:	12-417-13					
Methane	**210**	1.7	RSK 175	1-8-25	1-8-25	
Ethane	**ND**	0.56	RSK 175	1-8-25	1-8-25	
Ethene	**ND**	0.58	RSK 175	1-8-25	1-8-25	
Acetylene	**ND**	3.1	RSK 175	1-8-25	1-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*120*	*50-150*				
Client ID:	**FL358-DUP-241231**					
Laboratory ID:	12-417-15					
Methane	**1200**	8.3	RSK 175	1-8-25	1-8-25	
Ethane	**ND**	0.56	RSK 175	1-8-25	1-8-25	
Ethene	**ND**	0.58	RSK 175	1-8-25	1-8-25	
Acetylene	**ND**	3.1	RSK 175	1-8-25	1-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*121*	*50-150*				

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TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-241230**					
Laboratory ID:	12-417-01					
Total Organic Carbon	**27**	1.0	SM 5310B	1-6-25	1-6-25	
Client ID:	**FL358-MW13-241230**					
Laboratory ID:	12-417-02					
Total Organic Carbon	**10**	1.0	SM 5310B	1-6-25	1-6-25	
Client ID:	**FL358-MW15-241230**					
Laboratory ID:	12-417-03					
Total Organic Carbon	**28**	1.0	SM 5310B	1-6-25	1-6-25	
Client ID:	**FL358-MW22-241230**					
Laboratory ID:	12-417-04					
Total Organic Carbon	**57**	1.0	SM 5310B	1-6-25	1-6-25	
Client ID:	**FL358-MW25-241230**					
Laboratory ID:	12-417-05					
Total Organic Carbon	**2.2**	1.0	SM 5310B	1-6-25	1-6-25	
Client ID:	**FL358-MW7-241230**					
Laboratory ID:	12-417-06					
Total Organic Carbon	**18**	1.0	SM 5310B	1-6-25	1-6-25	
Client ID:	**FL358-MW21-241230**					
Laboratory ID:	12-417-07					
Total Organic Carbon	**24**	1.0	SM 5310B	1-6-25	1-6-25	
Client ID:	**FL358-MW20-241231**					
Laboratory ID:	12-417-10					
Total Organic Carbon	**15**	1.0	SM 5310B	1-6-25	1-6-25	
Client ID:	**FL358-MW24-241231**					
Laboratory ID:	12-417-11					
Total Organic Carbon	**6.9**	1.0	SM 5310B	1-6-25	1-6-25	

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TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-241231**					
Laboratory ID:	12-417-12					
Total Organic Carbon	**9.7**	1.0	SM 5310B	1-6-25	1-6-25	
Client ID:	**FL358-MW5B-241231**					
Laboratory ID:	12-417-13					
Total Organic Carbon	**6.9**	1.0	SM 5310B	1-6-25	1-6-25	
Client ID:	**FL358-DUP-241231**					
Laboratory ID:	12-417-15					
Total Organic Carbon	**9.5**	1.0	SM 5310B	1-6-25	1-6-25	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-241230**					
Laboratory ID:	12-417-01					
Ammonia	**3.2**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	
Client ID:	**FL358-MW13-241230**					
Laboratory ID:	12-417-02					
Ammonia	**ND**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	
Client ID:	**FL358-MW15-241230**					
Laboratory ID:	12-417-03					
Ammonia	**0.055**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	
Client ID:	**FL358-MW22-241230**					
Laboratory ID:	12-417-04					
Ammonia	**4.0**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	
Client ID:	**FL358-MW25-241230**					
Laboratory ID:	12-417-05					
Ammonia	**0.058**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	
Client ID:	**FL358-MW7-241230**					
Laboratory ID:	12-417-06					
Ammonia	**2.8**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	
Client ID:	**FL358-MW21-241230**					
Laboratory ID:	12-417-07					
Ammonia	**2.7**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	
Client ID:	**FL358-MW20-241231**					
Laboratory ID:	12-417-10					
Ammonia	**1.4**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	
Client ID:	**FL358-MW24-241231**					
Laboratory ID:	12-417-11					
Ammonia	**0.16**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-241231**					
Laboratory ID:	12-417-12					
Ammonia	**0.13**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	
Client ID:	**FL358-MW5B-241231**					
Laboratory ID:	12-417-13					
Ammonia	**ND**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	
Client ID:	**FL358-DUP-241231**					
Laboratory ID:	12-417-15					
Ammonia	**0.11**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	

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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-241230**					
Laboratory ID:	12-417-01					
Nitrate	**0.16**	0.050	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW13-241230**					
Laboratory ID:	12-417-02					
Nitrate	**ND**	0.050	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW15-241230**					
Laboratory ID:	12-417-03					
Nitrate	**0.090**	0.050	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW22-241230**					
Laboratory ID:	12-417-04					
Nitrate	**0.22**	0.050	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW25-241230**					
Laboratory ID:	12-417-05					
Nitrate	**0.23**	0.050	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW7-241230**					
Laboratory ID:	12-417-06					
Nitrate	**0.52**	0.050	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW21-241230**					
Laboratory ID:	12-417-07					
Nitrate	**0.17**	0.050	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW20-241231**					
Laboratory ID:	12-417-10					
Nitrate	**0.052**	0.050	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW24-241231**					
Laboratory ID:	12-417-11					
Nitrate	**ND**	0.050	EPA 353.2	12-31-24	12-31-24	

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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-241231**					
Laboratory ID:	12-417-12					
Nitrate	**0.21**	0.050	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW5B-241231**					
Laboratory ID:	12-417-13					
Nitrate	**ND**	0.050	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-DUP-241231**					
Laboratory ID:	12-417-15					
Nitrate	**0.066**	0.050	EPA 353.2	12-31-24	12-31-24	

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NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-241230**					
Laboratory ID:	12-417-01					
Nitrite	**ND**	0.020	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW13-241230**					
Laboratory ID:	12-417-02					
Nitrite	**ND**	0.020	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW15-241230**					
Laboratory ID:	12-417-03					
Nitrite	**ND**	0.020	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW22-241230**					
Laboratory ID:	12-417-04					
Nitrite	**ND**	0.020	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW25-241230**					
Laboratory ID:	12-417-05					
Nitrite	**0.14**	0.020	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW7-241230**					
Laboratory ID:	12-417-06					
Nitrite	**ND**	0.020	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW21-241230**					
Laboratory ID:	12-417-07					
Nitrite	**0.024**	0.020	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW20-241231**					
Laboratory ID:	12-417-10					
Nitrite	**ND**	0.020	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW24-241231**					
Laboratory ID:	12-417-11					
Nitrite	**0.020**	0.020	EPA 353.2	12-31-24	12-31-24	

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NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-241231**					
Laboratory ID:	12-417-12					
Nitrite	**ND**	0.020	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-MW5B-241231**					
Laboratory ID:	12-417-13					
Nitrite	**ND**	0.020	EPA 353.2	12-31-24	12-31-24	
Client ID:	**FL358-DUP-241231**					
Laboratory ID:	12-417-15					
Nitrite	**ND**	0.020	EPA 353.2	12-31-24	12-31-24	

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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-241230**					
Laboratory ID:	12-417-01					
Sulfate	**ND**	5.0	ASTM D516-11	1-3-25	1-3-25	
Client ID:	**FL358-MW13-241230**					
Laboratory ID:	12-417-02					
Sulfate	**ND**	5.0	ASTM D516-11	1-3-25	1-3-25	
Client ID:	**FL358-MW15-241230**					
Laboratory ID:	12-417-03					
Sulfate	**ND**	5.0	ASTM D516-11	1-3-25	1-3-25	
Client ID:	**FL358-MW22-241230**					
Laboratory ID:	12-417-04					
Sulfate	**ND**	5.0	ASTM D516-11	1-3-25	1-3-25	
Client ID:	**FL358-MW25-241230**					
Laboratory ID:	12-417-05					
Sulfate	**19**	5.0	ASTM D516-11	1-3-25	1-3-25	
Client ID:	**FL358-MW7-241230**					
Laboratory ID:	12-417-06					
Sulfate	**39**	10	ASTM D516-11	1-3-25	1-3-25	
Client ID:	**FL358-MW21-241230**					
Laboratory ID:	12-417-07					
Sulfate	**ND**	5.0	ASTM D516-11	1-3-25	1-3-25	
Client ID:	**FL358-MW20-241231**					
Laboratory ID:	12-417-10					
Sulfate	**49**	10	ASTM D516-11	1-3-25	1-3-25	
Client ID:	**FL358-MW24-241231**					
Laboratory ID:	12-417-11					
Sulfate	**28**	10	ASTM D516-11	1-3-25	1-3-25	

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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-241231**					
Laboratory ID:	12-417-12					
Sulfate	**13**	5.0	ASTM D516-11	1-3-25	1-3-25	
Client ID:	**FL358-MW5B-241231**					
Laboratory ID:	12-417-13					
Sulfate	**9.9**	5.0	ASTM D516-11	1-3-25	1-3-25	
Client ID:	**FL358-DUP-241231**					
Laboratory ID:	12-417-15					
Sulfate	**7.7**	5.0	ASTM D516-11	1-3-25	1-3-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-241230**					
Laboratory ID:	12-417-01					
Chloride	**49**	2.0	SM 4500-Cl E	1-2-25	1-2-25	
Client ID:	**FL358-MW13-241230**					
Laboratory ID:	12-417-02					
Chloride	**52**	2.0	SM 4500-Cl E	1-2-25	1-2-25	
Client ID:	**FL358-MW15-241230**					
Laboratory ID:	12-417-03					
Chloride	**75**	2.0	SM 4500-Cl E	1-2-25	1-2-25	
Client ID:	**FL358-MW22-241230**					
Laboratory ID:	12-417-04					
Chloride	**20**	2.0	SM 4500-Cl E	1-2-25	1-2-25	
Client ID:	**FL358-MW25-241230**					
Laboratory ID:	12-417-05					
Chloride	**26**	2.0	SM 4500-Cl E	1-2-25	1-2-25	
Client ID:	**FL358-MW7-241230**					
Laboratory ID:	12-417-06					
Chloride	**25**	2.0	SM 4500-Cl E	1-2-25	1-2-25	
Client ID:	**FL358-MW21-241230**					
Laboratory ID:	12-417-07					
Chloride	**16**	2.0	SM 4500-Cl E	1-2-25	1-2-25	
Client ID:	**FL358-MW20-241231**					
Laboratory ID:	12-417-10					
Chloride	**22**	2.0	SM 4500-Cl E	1-2-25	1-2-25	
Client ID:	**FL358-MW24-241231**					
Laboratory ID:	12-417-11					
Chloride	**57**	2.0	SM 4500-Cl E	1-2-25	1-2-25	

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-241231**					
Laboratory ID:	12-417-12					
Chloride	**27**	2.0	SM 4500-Cl E	1-2-25	1-2-25	
Client ID:	**FL358-MW5B-241231**					
Laboratory ID:	12-417-13					
Chloride	**29**	2.0	SM 4500-Cl E	1-2-25	1-2-25	
Client ID:	**FL358-DUP-241231**					
Laboratory ID:	12-417-15					
Chloride	**27**	2.0	SM 4500-Cl E	1-2-25	1-2-25	

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-241230**					
Laboratory ID:	12-417-01					
Iron	**69000**	500	EPA 6010D	1-9-25	1-9-25	
Client ID:	**FL358-MW13-241230**					
Laboratory ID:	12-417-02					
Iron	**3700**	50	EPA 6010D	1-9-25	1-9-25	
Client ID:	**FL358-MW15-241230**					
Laboratory ID:	12-417-03					
Iron	**29000**	500	EPA 6010D	1-9-25	1-9-25	
Client ID:	**FL358-MW22-241230**					
Laboratory ID:	12-417-04					
Iron	**88000**	500	EPA 6010D	1-9-25	1-9-25	
Client ID:	**FL358-MW25-241230**					
Laboratory ID:	12-417-05					
Iron	**1300**	50	EPA 6010D	1-9-25	1-9-25	
Client ID:	**FL358-MW7-241230**					
Laboratory ID:	12-417-06					
Iron	**45000**	500	EPA 6010D	1-9-25	1-9-25	
Client ID:	**FL358-MW21-241230**					
Laboratory ID:	12-417-07					
Iron	**77000**	500	EPA 6010D	1-9-25	1-9-25	
Client ID:	**FL358-MW20-241231**					
Laboratory ID:	12-417-10					
Iron	**18000**	50	EPA 6010D	1-9-25	1-9-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW24-241231**					
Laboratory ID:	12-417-11					
Iron	**790**	50	EPA 6010D	1-9-25	1-9-25	
Client ID:	**FL358-MW5A-241231**					
Laboratory ID:	12-417-12					
Iron	**3200**	50	EPA 6010D	1-9-25	1-9-25	
Client ID:	**FL358-MW5B-241231**					
Laboratory ID:	12-417-13					
Iron	**140**	50	EPA 6010D	1-9-25	1-9-25	
Client ID:	**FL358-DUP-241231**					
Laboratory ID:	12-417-15					
Iron	**3300**	50	EPA 6010D	1-9-25	1-9-25	

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0102W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	1-2-25	1-2-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	1-2-25	1-2-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-2-25	1-2-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-2-25	1-2-25	
Trichloroethene	ND	0.20	EPA 8260D	1-2-25	1-2-25	
Tetrachloroethene	ND	0.20	EPA 8260D	1-2-25	1-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0102W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.23**	**9.57**	10.0	10.0	92	96	67-130	4	15	
1,1-Dichloroethene	**8.96**	**9.87**	10.0	10.0	90	99	74-125	10	15	
(trans) 1,2-Dichloroethene	**9.59**	**9.98**	10.0	10.0	96	100	77-125	4	15	
(cis) 1,2-Dichloroethene	**9.43**	**10.0**	10.0	10.0	94	100	78-130	6	15	
Trichloroethene	**9.86**	**10.4**	10.0	10.0	99	104	80-126	5	15	
Tetrachloroethene	**10.9**	**11.4**	10.0	10.0	109	114	80-125	4	15	
Surrogate:										
Dibromofluoromethane					*99*	*99*	*68-133*			
Toluene-d8					*98*	*97*	*79-123*			
4-Bromofluorobenzene					*98*	*100*	*78-117*			

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0107W1					
Methane	**ND**	0.55	RSK 175	1-7-25	1-7-25	
Ethane	**ND**	0.56	RSK 175	1-7-25	1-7-25	
Ethene	**ND**	0.58	RSK 175	1-7-25	1-7-25	
Acetylene	**ND**	3.1	RSK 175	1-7-25	1-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*72*	*50-150*				
Laboratory ID:	MB0108W1					
Methane	**ND**	0.55	RSK 175	1-8-25	1-8-25	
Ethane	**ND**	0.56	RSK 175	1-8-25	1-8-25	
Ethene	**ND**	0.58	RSK 175	1-8-25	1-8-25	
Acetylene	**ND**	3.1	RSK 175	1-8-25	1-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*62*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0107W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**34.1**	**41.6**	44.2	44.2	77	94	75-125	20	25	
Ethane	**67.1**	**81.0**	83.2	83.2	81	97	75-125	19	25	
Ethene	**70.5**	**80.6**	77.7	77.7	91	104	75-125	13	25	
Acetylene	**64.6**	**60.1**	72.0	72.0	90	84	60-140	7	25	
Surrogate:										
1-Butene					*97*	*110*	*50-150*			
Laboratory ID:	SB0108W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**39.5**	**33.3**	44.2	44.2	89	75	75-125	17	25	
Ethane	**73.4**	**63.0**	83.2	83.2	88	76	75-125	15	25	
Ethene	**61.3**	**63.8**	77.7	77.7	79	82	75-125	4	25	
Acetylene	**52.8**	**48.0**	72.0	72.0	73	67	60-140	10	25	
Surrogate:										
1-Butene					*82*	*82*	*50-150*			

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0106W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	1-6-25	1-6-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-417-01								
	ORIG	DUP							
Total Organic Carbon	**26.7**	**26.9**	NA	NA	NA	NA	1	11	
MATRIX SPIKE									
Laboratory ID:	12-417-01								
	MS		MS		MS				
Total Organic Carbon	**37.0**		10.0	26.7	103	85-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0106W1								
	SB		SB		SB				
Total Organic Carbon	**10.0**		10.0	NA	100	79-120	NA	NA	

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0107W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	1-7-25	1-7-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-417-01								
	ORIG	DUP							
Ammonia	**3.22**	**3.26**	NA	NA	NA	NA	1	15	
MATRIX SPIKE									
Laboratory ID:	12-417-01								
	MS		MS		MS				
Ammonia	**8.21**		5.00	3.22	100	75-111	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0107W1								
	SB		SB		SB				
Ammonia	**5.04**		5.00	NA	101	81-110	NA	NA	

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1231W1					
Nitrate	**ND**	0.050	EPA 353.2	12-31-24	12-31-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-417-01								
	ORIG	DUP							
Nitrate	**0.161**	**0.138**	NA	NA	NA	NA	15	22	
MATRIX SPIKE									
Laboratory ID:	12-417-01								
	MS		MS		MS				
Nitrate	**2.18**		2.00	0.161	101	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1231W1								
	SB		SB		SB				
Nitrate	**1.92**		2.00	NA	96	85-117	NA	NA	

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1231W1					
Nitrite	**ND**	0.020	EPA 353.2	12-31-24	12-31-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-417-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	12-417-01							
	MS	MS		MS				
Nitrite	**0.253**	0.250	ND	101	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1231W1							
	SB	SB		SB				
Nitrite	**0.249**	0.250	NA	100	91-116	NA	NA	

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0103W1					
Sulfate	**ND**	5.0	ASTM D516-11	1-3-25	1-3-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-241-01							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	12-241-01							
	MS	MS		MS				
Sulfate	**12.9**	10.0	ND	129	69-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0103W1							
	SB	SB		SB				
Sulfate	**8.87**	10.0	NA	89	81-106	NA	NA	

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0102W1					
Chloride	**ND**	2.0	SM 4500-Cl E	1-2-25	1-2-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-421-01							
	ORIG DUP							
Chloride	**2.53** **2.13**	NA	NA	NA	NA	17	21	
MATRIX SPIKE								
Laboratory ID:	12-421-01							
	MS	MS		MS				
Chloride	**54.6**	50.0	2.53	104	81-115	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0102W1							
	SB	SB		SB				
Chloride	**48.9**	50.0	NA	98	77-115	NA	NA	

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Date of Report: January 9, 2025
Samples Submitted: December 31, 2024
Laboratory Reference: 2412-417
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0109WH1					
Iron	**ND**	50	EPA 6010D	1-9-25	1-9-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-285-02										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	12-285-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22700**	**22400**	20000	20000	ND	**114**	**112**	75-125	1	20	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

January 07, 2025

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: OSE
Project Number: 4082-039-03
COC Number: 12-417

David Baumeister:

Enclosed please find the analytical data for your OSE project.

Your sample(s) were received on Tuesday, December 31, 2024 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.
Sincerely,

Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Date Received: 12/31/24
Date Reported: 01/07/25

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A24L0514-01	FL358-MW20-241231	Water		12/31/2024	12/31/2024
A24L0514-02	FL358-MW24-241231	Water		12/31/2024	12/31/2024
A24L0514-03	FL358-MW5A-241231	Water		12/31/2024	12/31/2024
A24L0514-04	FL358-MW5B-241231	Water		12/31/2024	12/31/2024
A24L0514-05	FL358-DUP-241231	Water		12/31/2024	12/31/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 12/31/24
Date Reported: 01/07/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

AMTEST Identification Number: A24L0514-01
Client Identification: FL358-MW20-241231
Sampling Date: 12/31/24 09:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	9	mg/L		2	SM 5210B_2011	JM	01/02/2025

AMTEST Identification Number: A24L0514-02
Client Identification: FL358-MW24-241231
Sampling Date: 12/31/24 08:40

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	4	mg/L		2	SM 5210B_2011	JM	01/02/2025

AMTEST Identification Number: A24L0514-03
Client Identification: FL358-MW5A-241231
Sampling Date: 12/31/24 08:45

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	6	mg/L		2	SM 5210B_2011	JM	01/02/2025

AMTEST Identification Number: A24L0514-04
Client Identification: FL358-MW5B-241231
Sampling Date: 12/31/24 11:25

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	5	mg/L		2	SM 5210B_2011	JM	01/02/2025

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 12/31/24
Date Reported: 01/07/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

AMTEST Identification Number: A24L0514-05
Client Identification: FL358-DUP-241231
Sampling Date: 12/31/24 06:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	7	mg/L		2	SM 5210B_2011	JM	01/02/2025

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ANALYSIS REPORT

Professional Analytical Services

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Date Received: 12/31/24
Date Reported: 01/07/25

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCA0045 - No Prep - WetChem										
Calibration Blank (BCA0045-CCB1)					Prepared & Analyzed: 01/02/25					
Biological Oxygen Demand (BOD)	ND	U		mg/L						
Duplicate (BCA0045-DUP1)		**Source: A24L0506-02**			Prepared & Analyzed: 01/02/25					
Biological Oxygen Demand (BOD)	2		2	mg/L		3			8	35.5

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Professional Analytical Services

ANALYSIS REPORT

Date Received: 12/31/24
Date Reported: 01/07/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

A24L0514

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 12-417

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW20-241231	12/31/24	9:00	W	1	BOD 5
02	FL358-MW24-241231	12/31/24	8:40	W	1	BOD 5
03	FL358-MW5A-241231	12/31/24	8:45	W	1	BOD 5
04	FL358-MW5B-241231	12/31/24	11:25	W	1	BOD 5
05	FL358-DUP-241231	12/31/24	6:00	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	12/31	~~13:40~~	13:35
Received by: KH	Amtest	12/31/24	1338	5.4°C
Relinquished by:				**EDDs**
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street · Redmond, WA 98052
Phone: (425) 883-3881 · www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: Brittany Waite
Sampled by:

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-417

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW12-241230	12/31/24	1110	W	10																		X		X	X	
2	FL358-MW13-241230	12/31/24	1155	W																			X		X	X	
3	FL358-MW15-241230	12/31/24	1400	W																			X		X	X	
4	FL358-MW22-241230	12/31/24	1300	W																			X		X	X	
5	FL358-MW25-241230	12/31/24	1400	W																			X		X	X	
6	FL358-MW7-241230	12/31/24	1605	W																			X		X	X	
7	FL358-~~DUP~~MW21-241230	12/31/24	1700	W																			X		X	X	
8	FL358-RB-241230	12/31/24	1500	W	3																		X				
9	FL358-TB-241231	12/31/24	--	W	3																		X				

	Signature	Company	Date	Time
Relinquished		GEI	12/31	1230
Received		OSE	12/31/24	1230
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), ~~and BOD (SM521B).~~

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

Page 2 of 2

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: CEI
Project Number: 21062-039-03
Project Name: AS FL356
Project Manager: PACE BRITTANY WHITE
Sampled by: VAN ONE

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-417

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	PROJECT VOCs	DRO GASES	GEN CHEM		% Moisture
10	FL356-MW20-241231	12/31	0900	W	10																		X	X	X		
11	FL356-MW24-241231		0840	W	10																		X	X	X		
12	FL356-MW5A-241231		0845	W	10																		X	X	X		
13	FL356-MW5B-241231		1125 ~~1115~~	W	10																		X	X	X		
14	FL356-RB-241231		1030	W	3																		X				
15	FL356-DUP-241231	↓	0600	W	10																		X	X	X		

	Signature	Company	Date	Time
Relinquished		CEI	12/31	1230
Received		OSE	12/31/24	1230
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

AS PAGE ONE

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 14, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2412-377

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on December 27, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

Case Narrative

Samples were collected on December 26, 2024 and received by the laboratory on December 27, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW16-241226	12-377-01	Water	12-26-24	12-27-24	
FL358-MW17-241226	12-377-02	Water	12-26-24	12-27-24	
FL358-MW23-241226	12-377-03	Water	12-26-24	12-27-24	
FL358-MW26-241226	12-377-04	Water	12-26-24	12-27-24	
FL358-MW27-241226	12-377-05	Water	12-26-24	12-27-24	
FL358-DUP-241226	12-377-06	Water	12-26-24	12-27-24	
FL358-RB-241226	12-377-07	Water	12-26-24	12-27-24	
FL358-TB-241226	12-377-08	Water	---	12-27-24	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW16-241226**					
Laboratory ID:	12-377-01					
Vinyl Chloride (SIM)	1.6	0.20	EPA 8260D/SIM	12-31-24	12-31-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(cis) 1,2-Dichloroethene	50	2.0	EPA 8260D	12-31-24	12-31-24	
Trichloroethene	15	2.0	EPA 8260D	12-31-24	12-31-24	
Tetrachloroethene	15	2.0	EPA 8260D	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				
Client ID:	**FL358-MW17-241226**					
Laboratory ID:	12-377-02					
Vinyl Chloride (SIM)	0.24	0.20	EPA 8260D/SIM	12-31-24	12-31-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Trichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Tetrachloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-MW23-241226**					
Laboratory ID:	12-377-03					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	12-31-24	12-31-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Trichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Tetrachloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW26-241226**					
Laboratory ID:	12-377-04					
Vinyl Chloride (SIM)	0.50	0.20	EPA 8260D/SIM	12-31-24	12-31-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Trichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Tetrachloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*95*	*78-117*				
Client ID:	**FL358-MW27-241226**					
Laboratory ID:	12-377-05					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	12-31-24	12-31-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Trichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Tetrachloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**FL358-DUP-241226**					
Laboratory ID:	12-377-06					
Vinyl Chloride	2.3	2.0	EPA 8260D	12-31-24	12-31-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(cis) 1,2-Dichloroethene	73	2.0	EPA 8260D	12-31-24	12-31-24	
Trichloroethene	24	2.0	EPA 8260D	12-31-24	12-31-24	
Tetrachloroethene	26	2.0	EPA 8260D	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-RB-241226**					
Laboratory ID:	12-377-07					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	12-31-24	12-31-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Trichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Tetrachloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-TB-241226**					
Laboratory ID:	12-377-08					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	12-31-24	12-31-24	
1,1-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Trichloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Tetrachloroethene	ND	2.0	EPA 8260D	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW16-241226**					
Laboratory ID:	12-377-01					
Methane	**1200**	8.3	RSK 175	1-3-25	1-3-25	
Ethane	**ND**	0.56	RSK 175	1-3-25	1-3-25	
Ethene	**ND**	0.58	RSK 175	1-3-25	1-3-25	
Acetylene	**ND**	3.1	RSK 175	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*136*	*50-150*				
Client ID:	**FL358-MW17-241226**					
Laboratory ID:	12-377-02					
Methane	**1200**	11	RSK 175	1-3-25	1-3-25	
Ethane	**ND**	0.56	RSK 175	1-3-25	1-3-25	
Ethene	**ND**	0.58	RSK 175	1-3-25	1-3-25	
Acetylene	**ND**	3.1	RSK 175	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*103*	*50-150*				
Client ID:	**FL358-MW23-241226**					
Laboratory ID:	12-377-03					
Methane	**830**	5.5	RSK 175	1-3-25	1-3-25	
Ethane	**ND**	0.56	RSK 175	1-3-25	1-3-25	
Ethene	**ND**	0.58	RSK 175	1-3-25	1-3-25	
Acetylene	**ND**	3.1	RSK 175	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*85*	*50-150*				
Client ID:	**FL358-MW26-241226**					
Laboratory ID:	12-377-04					
Methane	**3200**	33	RSK 175	1-3-25	1-3-25	
Ethane	**ND**	0.56	RSK 175	1-3-25	1-3-25	
Ethene	**ND**	0.58	RSK 175	1-3-25	1-3-25	
Acetylene	**ND**	3.1	RSK 175	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*97*	*50-150*				

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Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27-241226**					
Laboratory ID:	12-377-05					
Methane	**5700**	42	RSK 175	1-3-25	1-3-25	
Ethane	**ND**	0.56	RSK 175	1-3-25	1-3-25	
Ethene	**ND**	0.58	RSK 175	1-3-25	1-3-25	
Acetylene	**ND**	3.1	RSK 175	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*68*	*50-150*				
Client ID:	**FL358-DUP-241226**					
Laboratory ID:	12-377-06					
Methane	**2700**	17	RSK 175	1-3-25	1-3-25	
Ethane	**ND**	0.56	RSK 175	1-3-25	1-3-25	
Ethene	**ND**	0.58	RSK 175	1-3-25	1-3-25	
Acetylene	**ND**	3.1	RSK 175	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*69*	*50-150*				

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Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW16-241226**					
Laboratory ID:	12-377-01					
Total Organic Carbon	**20**	1.0	SM 5310B	12-31-24	12-31-24	
Client ID:	**FL358-MW17-241226**					
Laboratory ID:	12-377-02					
Total Organic Carbon	**20**	1.0	SM 5310B	12-31-24	12-31-24	
Client ID:	**FL358-MW23-241226**					
Laboratory ID:	12-377-03					
Total Organic Carbon	**12**	1.0	SM 5310B	12-31-24	12-31-24	
Client ID:	**FL358-MW26-241226**					
Laboratory ID:	12-377-04					
Total Organic Carbon	**19**	1.0	SM 5310B	12-31-24	12-31-24	
Client ID:	**FL358-MW27-241226**					
Laboratory ID:	12-377-05					
Total Organic Carbon	**28**	1.0	SM 5310B	12-31-24	12-31-24	
Client ID:	**FL358-DUP-241226**					
Laboratory ID:	12-377-06					
Total Organic Carbon	**19**	1.0	SM 5310B	12-31-24	12-31-24	

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Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW16-241226**					
Laboratory ID:	12-377-01					
Ammonia	**2.1**	0.053	SM 4500-NH3 D	12-30-24	12-30-24	
Client ID:	**FL358-MW17-241226**					
Laboratory ID:	12-377-02					
Ammonia	**2.2**	0.053	SM 4500-NH3 D	12-30-24	12-30-24	
Client ID:	**FL358-MW23-241226**					
Laboratory ID:	12-377-03					
Ammonia	**0.65**	0.053	SM 4500-NH3 D	12-30-24	12-30-24	
Client ID:	**FL358-MW26-241226**					
Laboratory ID:	12-377-04					
Ammonia	**0.40**	0.053	SM 4500-NH3 D	12-30-24	12-30-24	
Client ID:	**FL358-MW27-241226**					
Laboratory ID:	12-377-05					
Ammonia	**4.0**	0.053	SM 4500-NH3 D	12-30-24	12-30-24	
Client ID:	**FL358-DUP-241226**					
Laboratory ID:	12-377-06					
Ammonia	**1.4**	0.053	SM 4500-NH3 D	12-30-24	12-30-24	

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Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW16-241226**					
Laboratory ID:	12-377-01					
Nitrate	**ND**	0.050	EPA 353.2	12-27-24	12-27-24	
Client ID:	**FL358-MW17-241226**					
Laboratory ID:	12-377-02					
Nitrate	**0.16**	0.050	EPA 353.2	12-27-24	12-27-24	
Client ID:	**FL358-MW23-241226**					
Laboratory ID:	12-377-03					
Nitrate	**ND**	0.050	EPA 353.2	12-27-24	12-27-24	
Client ID:	**FL358-MW26-241226**					
Laboratory ID:	12-377-04					
Nitrate	**0.13**	0.050	EPA 353.2	12-27-24	12-27-24	
Client ID:	**FL358-MW27-241226**					
Laboratory ID:	12-377-05					
Nitrate	**ND**	0.050	EPA 353.2	12-27-24	12-27-24	
Client ID:	**FL358-DUP-241226**					
Laboratory ID:	12-377-06					
Nitrate	**ND**	0.050	EPA 353.2	12-27-24	12-27-24	

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Date of Report: January 14, 2025
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NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW16-241226**					
Laboratory ID:	12-377-01					
Nitrite	**ND**	0.020	EPA 353.2	12-27-24	12-27-24	
Client ID:	**FL358-MW17-241226**					
Laboratory ID:	12-377-02					
Nitrite	**ND**	0.020	EPA 353.2	12-27-24	12-27-24	
Client ID:	**FL358-MW23-241226**					
Laboratory ID:	12-377-03					
Nitrite	**ND**	0.020	EPA 353.2	12-27-24	12-27-24	
Client ID:	**FL358-MW26-241226**					
Laboratory ID:	12-377-04					
Nitrite	**ND**	0.020	EPA 353.2	12-27-24	12-27-24	
Client ID:	**FL358-MW27-241226**					
Laboratory ID:	12-377-05					
Nitrite	**0.027**	0.020	EPA 353.2	12-27-24	12-27-24	
Client ID:	**FL358-DUP-241226**					
Laboratory ID:	12-377-06					
Nitrite	**ND**	0.020	EPA 353.2	12-27-24	12-27-24	

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Date of Report: January 14, 2025
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Laboratory Reference: 2412-377
Project: 4082-039-03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW16-241226**					
Laboratory ID:	12-377-01					
Sulfate	**ND**	5.0	ASTM D516-11	12-31-24	12-31-24	
Client ID:	**FL358-MW17-241226**					
Laboratory ID:	12-377-02					
Sulfate	**ND**	5.0	ASTM D516-11	12-31-24	12-31-24	
Client ID:	**FL358-MW23-241226**					
Laboratory ID:	12-377-03					
Sulfate	**45**	10	ASTM D516-11	12-31-24	12-31-24	
Client ID:	**FL358-MW26-241226**					
Laboratory ID:	12-377-04					
Sulfate	**35**	10	ASTM D516-11	12-31-24	12-31-24	
Client ID:	**FL358-MW27-241226**					
Laboratory ID:	12-377-05					
Sulfate	**10**	5.0	ASTM D516-11	12-31-24	12-31-24	
Client ID:	**FL358-DUP-241226**					
Laboratory ID:	12-377-06					
Sulfate	**ND**	5.0	ASTM D516-11	12-31-24	12-31-24	

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Date of Report: January 14, 2025
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Laboratory Reference: 2412-377
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW16-241226**					
Laboratory ID:	12-377-01					
Chloride	**42**	2.0	SM 4500-Cl E	12-30-24	12-30-24	
Client ID:	**FL358-MW17-241226**					
Laboratory ID:	12-377-02					
Chloride	**34**	2.0	SM 4500-Cl E	12-30-24	12-30-24	
Client ID:	**FL358-MW23-241226**					
Laboratory ID:	12-377-03					
Chloride	**35**	2.0	SM 4500-Cl E	12-30-24	12-30-24	
Client ID:	**FL358-MW26-241226**					
Laboratory ID:	12-377-04					
Chloride	**21**	2.0	SM 4500-Cl E	12-30-24	12-30-24	
Client ID:	**FL358-MW27-241226**					
Laboratory ID:	12-377-05					
Chloride	**20**	2.0	SM 4500-Cl E	12-30-24	12-30-24	
Client ID:	**FL358-DUP-241226**					
Laboratory ID:	12-377-06					
Chloride	**41**	2.0	SM 4500-Cl E	12-30-24	12-30-24	

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Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW16-241226**					
Laboratory ID:	12-377-01					
Iron	**13000**	50	EPA 6010D	1-6-24	1-6-25	
Client ID:	**FL358-MW17-241226**					
Laboratory ID:	12-377-02					
Iron	**37000**	250	EPA 6010D	1-6-24	1-6-25	
Client ID:	**FL358-MW23-241226**					
Laboratory ID:	12-377-03					
Iron	**250**	50	EPA 6010D	1-6-24	1-6-25	
Client ID:	**FL358-MW26-241226**					
Laboratory ID:	12-377-04					
Iron	**30000**	250	EPA 6010D	1-6-24	1-6-25	
Client ID:	**FL358-MW27-241226**					
Laboratory ID:	12-377-05					
Iron	**12000**	50	EPA 6010D	1-6-24	1-6-25	
Client ID:	**FL358-DUP-241226**					
Laboratory ID:	12-377-06					
Iron	**6700**	50	EPA 6010D	1-6-24	1-6-25	

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Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1231W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-31-24	12-31-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-31-24	12-31-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-31-24	12-31-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-31-24	12-31-24	
Trichloroethene	ND	0.20	EPA 8260D	12-31-24	12-31-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-31-24	12-31-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-403-01										
	MS	MSD	MS	MSD		MS	MSD				
Vinyl Chloride	**8.87**	**9.17**	10.0	10.0	ND	89	92	62-121	3	15	
1,1-Dichloroethene	**9.09**	**9.11**	10.0	10.0	ND	91	91	76-119	0	15	
(trans) 1,2-Dichloroethene	**9.29**	**9.43**	10.0	10.0	ND	93	94	79-120	1	16	
(cis) 1,2-Dichloroethene	**9.42**	**9.31**	10.0	10.0	ND	94	93	81-128	1	16	
Trichloroethene	**9.64**	**9.14**	10.0	10.0	ND	96	91	80-130	5	12	
Tetrachloroethene	**11.1**	**10.5**	10.0	10.0	ND	111	105	84-126	6	19	
Surrogate:											
Dibromofluoromethane						*94*	*102*	*68-133*			
Toluene-d8						*99*	*97*	*79-123*			
4-Bromofluorobenzene						*100*	*102*	*78-117*			

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Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0103W1					
Methane	**ND**	0.55	RSK 175	1-3-25	1-3-25	
Ethane	**ND**	0.56	RSK 175	1-3-25	1-3-25	
Ethene	**ND**	0.58	RSK 175	1-3-25	1-3-25	
Acetylene	**ND**	3.1	RSK 175	1-3-25	1-3-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*95*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0103W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**40.7**	**44.5**	44.2	44.2	92	101	75-125	9	25	
Ethane	**80.3**	**87.2**	83.2	83.2	97	105	75-125	8	25	
Ethene	**84.6**	**89.5**	77.7	77.7	109	115	75-125	6	25	
Acetylene	**67.1**	**61.8**	72.0	72.0	93	86	60-140	8	25	
Surrogate:										
1-Butene					*109*	*115*	*50-150*			

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Date of Report: January 14, 2025
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Laboratory Reference: 2412-377
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1231W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	12-31-24	12-31-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-403-01								
	ORIG	DUP							
Total Organic Carbon	**11.2**	**11.1**	NA	NA	NA	NA	1	11	
MATRIX SPIKE									
Laboratory ID:	12-403-01								
	MS		MS		MS				
Total Organic Carbon	**20.3**		10.0	11.2	91	85-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1231W1								
	SB		SB		SB				
Total Organic Carbon	**10.8**		10.0	NA	108	79-120	NA	NA	

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Date of Report: January 14, 2025
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Laboratory Reference: 2412-377
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1230W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	12-30-24	12-30-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-358-01								
	ORIG	DUP							
Ammonia	**0.112**	**0.129**	NA	NA	NA	NA	14	15	
MATRIX SPIKE									
Laboratory ID:	12-358-01								
	MS		MS		MS				
Ammonia	**5.24**		5.00	0.112	103	75-111	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1230W1								
	SB		SB		SB				
Ammonia	**5.33**		5.00	NA	107	81-110	NA	NA	

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Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
Nitrate	**ND**	0.050	EPA 353.2	12-27-24	12-27-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-377-01								
	ORIG	DUP							
Nitrate	**ND**	**ND**	NA	NA	NA	NA	NA	22	
MATRIX SPIKE									
Laboratory ID:	12-377-01								
	MS		MS		MS				
Nitrate	**2.36**		2.00	ND	118	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1227W1								
	SB		SB		SB				
Nitrate	**2.15**		2.00	NA	108	85-117	NA	NA	

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Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
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NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
Nitrite	**ND**	0.020	EPA 353.2	12-27-24	12-27-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-377-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	12-377-01							
	MS	MS		MS				
Nitrite	**0.285**	0.250	ND	114	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1227W1							
	SB	SB		SB				
Nitrite	**0.287**	0.250	NA	115	91-116	NA	NA	

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Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1231W1					
Sulfate	**ND**	5.0	ASTM D516-11	12-31-24	12-31-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-361-01							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	12-361-01							
	MS	MS		MS				
Sulfate	**9.50**	10.0	ND	95	69-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1231W1							
	SB	SB		SB				
Sulfate	**10.2**	10.0	NA	102	81-106	NA	NA	

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Date of Report: January 14, 2025
Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1230W1					
Chloride	**ND**	2.0	SM 4500-Cl E	12-30-24	12-30-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	12-358-01								
	ORIG	DUP							
Chloride	**28.2**	**28.3**	NA	NA	NA	NA	0	21	
MATRIX SPIKE									
Laboratory ID:	12-358-01								
	MS		MS		MS				
Chloride	**85.6**		50.0	28.2	115	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1230W1								
	SB		SB		SB				
Chloride	**52.4**		50.0	NA	105	77-115	NA	NA	

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Samples Submitted: December 27, 2024
Laboratory Reference: 2412-377
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0106WH1					
Iron	**ND**	50	EPA 6010D	1-6-24	1-6-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-276-06										
	ORIG	DUP									
Iron	**613**	**561**	NA	NA		NA		NA	9	20	
MATRIX SPIKES											
Laboratory ID:	12-276-06										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**21800**	**20900**	20000	20000	613	**106**	**102**	75-125	4	20	

This report pertains to the samples analyzed in accordance with the chain of custody,
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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

January 07, 2025

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: OSE
Project Number: FI358: 4082-039-03 T 2200
COC Number: 43630

David Baumeister:

Enclosed please find the analytical data for your OSE project.

Your sample(s) were received on Thursday, December 26, 2024 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.
Sincerely,

Aaron Young

ElementStationManager For Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 12/26/24
Date Reported: 01/07/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: FI358: 4082-039-03 T 2200

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A24L0467-01	FL358- MN16-241226	Water		12/26/2024	12/26/2024
A24L0467-02	FL358- MW17-241226	Water		12/26/2024	12/26/2024
A24L0467-03	FL358- MN23-241226	Water		12/26/2024	12/26/2024
A24L0467-04	FL358- MN26-241226	Water		12/26/2024	12/26/2024
A24L0467-05	FL358- MN27-241226	Water		12/26/2024	12/26/2024
A24L0467-06	FL358-DUP-241226	Water		12/26/2024	12/26/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 12/26/24
Date Reported: 01/07/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: FI358: 4082-039-03 T 2200

AMTEST Identification Number: A24L0467-01
Client Identification: FL358- MN16-241226
Sampling Date: 12/26/24 12:05

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	12	mg/L	P	2	SM 5210B_2011	JM	12/26/2024

AMTEST Identification Number: A24L0467-02
Client Identification: FL358- MW17-241226
Sampling Date: 12/26/24 08:25

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	10	mg/L	P	2	SM 5210B_2011	JM	12/26/2024

AMTEST Identification Number: A24L0467-03
Client Identification: FL358- MN23-241226
Sampling Date: 12/26/24 10:20

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	6	mg/L		2	SM 5210B_2011	JM	12/26/2024

AMTEST Identification Number: A24L0467-04
Client Identification: FL358- MN26-241226
Sampling Date: 12/26/24 10:35

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	10	mg/L	P	2	SM 5210B_2011	JM	12/26/2024

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Kirkland, WA
(425) 885-1664
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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 12/26/24
Date Reported: 01/07/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: FI358: 4082-039-03 T 2200

AMTEST Identification Number: A24L0467-05
Client Identification: FL358- MN27-241226
Sampling Date: 12/26/24 12:50

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	12	mg/L	P	2	SM 5210B_2011	JM	12/26/2024

AMTEST Identification Number: A24L0467-06
Client Identification: FL358-DUP-241226
Sampling Date: 12/26/24 12:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	10	mg/L	P	2	SM 5210B_2011	JM	12/26/2024

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: FI358: 4082-039-03 T 2200

Date Received: 12/26/24
Date Reported: 01/07/25

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0432 - No Prep - WetChem										
Calibration Blank (BBL0432-CCB1)					Prepared & Analyzed: 12/26/24					
Biological Oxygen Demand (BOD)	ND	U		mg/L						
Duplicate (BBL0432-DUP1)		**Source: A24L0457-03**			Prepared & Analyzed: 12/26/24					
Biological Oxygen Demand (BOD)	7		2	mg/L		12			60	35.5

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ANALYSIS REPORT

Professional Analytical Services

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: FI358: 4082-039-03 T 2200

Date Received: 12/26/24
Date Reported: 01/07/25

Notes and Definitions

Item	Definition
P	Oxygen depletion exceeded method specification. Sample was diluted.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

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AMTEST LABORATORIES

AmTest Chain of Custody Record

13600 NE 126th PL, Suite C, Kirkland, WA 98034
Ph (425) 885-1664 Fx (425) 820-0245
www.amtestlab.com

A24L0467

Chain of Custody No. 43630

Client Name & Address: Onsite Environmental Inc.	Invoice To:
Contact Person: David Baumeister	Invoice Contact:
Phone No: 425-883-3881	PO Number:
Fax No:	Invoice Ph/Fax:
E-mail: dbaumeister@onsite-env.com	Invoice E-mail:
Report Delivery: (Choose all that apply) Mail / Fax / Email / Posted Online	Data posted to online account: YES / NO Web Login ID:
Special Instructions:	
Requested TAT: **(Rush must be pre-approved by lab)** Standard RUSH (5 Day / 3 Day / 48 HR / 24 HR)	Temperature upon Receipt: 0.3 °C

Project Name: FL358

Project Number: 4082-039-028 T2200

AmTest ID	Client ID (35 characters max)	Date Sampled	Time Sampled	Matrix	No. of containers	Analysis Requested: BOD									QA/QC
01	FL358-MW16-241226	12/26	1205	W	1										
02	FL358-MW17-241226		0825		1										
03	FL358-MW23-241226		1020		1										
04	FL358-MW26-241226		1035		1										
05	FL358-MW27-241226		1250		1										
06	FL358-DUP-241226		1200		1										

Collected/Relinquished By:	Date	Time	Received By:	Date	Time
Divya Khandelwal	12/26/24	1425	OA	12/24/24	14:25
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time

COMMENTS:

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: Brittany Waite
Sampled by:

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-377

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW16-241226	12/26/24	1105	W	3																		X		X	X	
2	FL358-MW17-241226	12/26/24	0825	W	3																		X		X	X	
3	FL358-MW23-241226	12/26/24	1020	W	3																		X		X	X	
4	FL358-MW26-241226	12/26/24	1045	W	3																		X		X	X	
5	FL358-MW27-241226	12/26/24	1250	W	3																		X		X	X	
	~~FL358-MW~~	~~12/ /24~~		~~W~~																			X		X	X	
6	FL358-DUP-241226	12/26/24	1200	W	3																		X		X	X	
7	FL358-RB-241226	12/26/24	1250	W	3																		X				
8	FL358-TB-241226	12/ /24	--	W	3																		X				

	Signature	Company	Date	Time
Relinquished	[signature]	GEI	12/27/24	0947
Received	[signature]	OSE	12/27/24	0947
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

BOD DELIVERED TO ANTEST 12/26

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 24, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2503-098

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on March 7, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

Case Narrative

Samples were collected on March 7, 2025 and received by the laboratory on March 7, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Dissolved Gasses by RSK-175 Analysis

Acetylene recovery was above laboratory control limits in the SB and SBD samples. Because this shows a high bias and no Acetylene was detected in other samples, no further action was required.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW11-250307	03-098-01	Water	3-7-25	3-7-25	
TB6-250307	03-098-02	Water	3-7-25	3-7-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW11-250307**					
Laboratory ID:	03-098-01					
Vinyl Chloride (SIM)	1.1	0.20	EPA 8260D/SIM	3-11-25	3-11-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**TB6-250307**					
Laboratory ID:	03-098-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-11-25	3-11-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW11-250307**					
Laboratory ID:	03-098-01					
Methane	**800**	8.3	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*140*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW11-250307**					
Laboratory ID:	03-098-01					
Total Organic Carbon	**17**	1.0	SM 5310B	3-11-25	3-11-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW11-250307**					
Laboratory ID:	03-098-01					
Ammonia	**2.9**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW11-250307**					
Laboratory ID:	03-098-01					
Nitrate	**0.21**	0.050	EPA 353.2	3-7-25	3-7-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW11-250307**					
Laboratory ID:	03-098-01					
Nitrite	**ND**	0.020	EPA 353.2	3-7-25	3-7-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW11-250307**					
Laboratory ID:	03-098-01					
Sulfate	**ND**	5.0	ASTM D516-11	3-21-25	3-21-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW-11-250307**					
Laboratory ID:	03-098-01					
Chloride	**26**	2.0	SM 4500-Cl E	3-17-25	3-17-02	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW11-250307**					
Laboratory ID:	03-098-01					
Iron	**44000**	500	EPA 6010D	3-10-25	3-11-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-11-25	3-11-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0311W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.94**	**8.64**	10.0	10.0	99	86	67-130	14	15	
1,1-Dichloroethene	**9.81**	**8.87**	10.0	10.0	98	89	74-125	10	15	
(trans) 1,2-Dichloroethene	**9.91**	**8.93**	10.0	10.0	99	89	77-125	10	15	
(cis) 1,2-Dichloroethene	**9.92**	**8.91**	10.0	10.0	99	89	78-130	11	15	
Trichloroethene	**11.1**	**9.84**	10.0	10.0	111	98	80-126	12	15	
Tetrachloroethene	**11.2**	**10.1**	10.0	10.0	112	101	80-125	10	15	
Surrogate:										
Dibromofluoromethane					*90*	*90*	*68-133*			
Toluene-d8					*99*	*98*	*79-123*			
4-Bromofluorobenzene					*102*	*101*	*78-117*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310W1					
Methane	**ND**	0.55	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*120*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0310W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**38.2**	**43.5**	44.2	44.2	86	98	75-125	13	25	
Ethane	**74.9**	**86.8**	83.2	83.2	90	104	75-125	15	25	
Ethene	**83.8**	**96.5**	77.7	77.7	108	124	75-125	14	25	
Acetylene	**128**	**161**	72.0	72.0	178	224	60-140	23	25	I,I
Surrogate:										
1-Butene					*101*	*127*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	3-11-25	3-11-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-029-04							
	ORIG DUP							
Total Organic Carbon	**1.81** **1.87**	NA	NA	NA	NA	3	11	
MATRIX SPIKE								
Laboratory ID:	03-029-04							
	MS	MS		MS				
Total Organic Carbon	**11.6**	10.0	1.81	98	85-120	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Total Organic Carbon	**10.1**	10.0	NA	101	79-120	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-029-04							
	ORIG DUP							
Ammonia	**ND** **ND**	NA	NA	NA	NA	NA	15	
MATRIX SPIKE								
Laboratory ID:	03-029-04							
	MS	MS		MS				
Ammonia	**5.38**	5.00	ND	108	75-111	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0308W1							
	SB	SB		SB				
Ammonia	**5.33**	5.00	NA	107	81-110	NA	NA	

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Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0307W1					
Nitrate	**ND**	0.050	EPA 353.2	3-7-25	3-7-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-063-01								
	ORIG	DUP							
Nitrate	**0.883**	**0.870**	NA	NA	NA	NA	1	22	
MATRIX SPIKE									
Laboratory ID:	03-063-01								
	MS		MS		MS				
Nitrate	**2.92**		2.00	0.883	102	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0307W1								
	SB		SB		SB				
Nitrate	**1.84**		2.00	NA	92	85-117	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0307W1					
Nitrite	**ND**	0.020	EPA 353.2	3-7-25	3-7-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-070-01								
	ORIG	DUP							
Nitrite	**0.376**	**0.375**	NA	NA	NA	NA	0	11	
MATRIX SPIKE									
Laboratory ID:	03-070-01								
	MS		MS		MS				
Nitrite	**0.618**		0.250	0.376	97	85-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0307W1								
	SB		SB		SB				
Nitrite	**0.253**		0.250	NA	101	91-116	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0321W1					
Sulfate	**ND**	5.0	ASTM D516-11	3-21-25	3-21-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-175-01							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	03-175-01							
	MS	MS		MS				
Sulfate	**10.3**	10.0	ND	103	69-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0321W1							
	SB	SB		SB				
Sulfate	**10.3**	10.0	NA	103	81-106	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317W1					
Chloride	**ND**	2.0	SM 4500-Cl E	3-17-25	3-17-02	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-098-01								
	ORIG	DUP							
Chloride	**25.7**	**25.7**	NA	NA	NA	NA	0	21	
MATRIX SPIKE									
Laboratory ID:	03-098-01								
	MS		MS		MS				
Chloride	**79.2**		50.0	25.7	107	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0317W1								
	SB		SB		SB				
Chloride	**48.6**		50.0	NA	97	77-115	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2025
Samples Submitted: March 7, 2025
Laboratory Reference: 2503-098
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310WH1					
Iron	**ND**	50	EPA 6010D	3-10-25	3-10-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-309-02										
	ORIG	DUP									
Iron	**626**	**594**	NA	NA		NA		NA	5	20	
MATRIX SPIKES											
Laboratory ID:	02-309-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**23400**	**20900**	20000	20000	626	**114**	**101**	75-125	11	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

March 18, 2025

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: OSE
Project Number: 4082-039-03
COC Number: 03-098

David Baumeister:

Enclosed please find the analytical data for your OSE project.

Your sample(s) were received on Friday, March 7, 2025 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.
Sincerely,

Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

ANALYSIS REPORT

Professional Analytical Services

Date Received: 03/07/25
Date Reported: 03/18/25

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A25C0189-01	FL358-MW11-250307	Water		03/07/2025	03/07/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/07/25
Date Reported: 03/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

AMTEST Identification Number: A25C0189-01
Client Identification: FL358-MW11-250307
Sampling Date: 03/07/25 11:25

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	14	mg/L	P	2	SM 5210B_2011	JM	03/07/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Date Received: 03/07/25
Date Reported: 03/18/25

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCC0193 - No Prep - WetChem										
Calibration Blank (BCC0193-CCB1)					Prepared & Analyzed: 03/07/25					
Biological Oxygen Demand (BOD)	ND	U		mg/L						
Duplicate (BCC0193-DUP1)		**Source: A25C0145-01**			Prepared & Analyzed: 03/07/25					
Biological Oxygen Demand (BOD)	510		2	mg/L		510			0.8	35.5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/07/25
Date Reported: 03/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Notes and Definitions

Item	Definition
P	Oxygen depletion exceeded method specification. Sample was diluted.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

A25C0189

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 03-098

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day | Standard

Other:

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW-11-250307	3/7/25	11:25	W	1	BOD SM521B

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	3/7/25	1:50 PM	10-7
Received by: NR	AmTest	3/7/25	13:57	
Relinquished by:				EDDs
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: Brittany Waite
Sampled by: Ramsey McMahon

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 03-098

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FL358-~~MW-11~~ MW-11-250307	3/7/25	1125	W	11
2	TB6-250307	3/7/25	—	W	3

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Project VOCs (Note 1) Email 3/17	Ferrous iron (SM3500 Fe) DB	Project Dissolved gas (Note 2)	Gen Chemistry (Note 3)	% Moisture
1																		X	X	X	X	
2																		X				

	Signature	Company	Date	Time
Relinquished	Ramsey	GeoEngineers	3/7/25	1325
Received		COC	3/7/25	1325
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note1: Project VOCs, PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2DCE, Vinyl chloride, Ethane, ~~Ethene~~, Methane, Acetylene
Note 2. Project dissolved gasses: Ethene, Methane, Acetylene
Note3 TOC (SM5310), Ammonia (SM4500NH3), Nitrate Nitrite (EPA 353.2) (report individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), BOD (SM5210B)

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 19, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03 T22.03
Laboratory Reference No. 2503-050

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on March 5, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

Case Narrative

Samples were collected on March 5, 2025 and received by the laboratory on March 5, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Dissolved Gasses by RSK 175 Analysis

Acetylene recovery was above laboratory control limits in the SB sample. Because this shows a high bias and no Acetylene was detected in other samples, no further action was required.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW7-250305	03-050-01	Water	3-5-25	3-5-25	
FL358-MW8-250305	03-050-02	Water	3-5-25	3-5-25	
FL358-MW9-250305	03-050-03	Water	3-5-25	3-5-25	
FL358-MW10-250305	03-050-04	Water	3-5-25	3-5-25	
FL358-MW14-250305	03-050-05	Water	3-5-25	3-5-25	
FL358-DUP-250305	03-050-06	Water	3-5-25	3-5-25	
FL358-RB-250305	03-050-07	Water	3-5-25	3-5-25	
FL358-TB3-250305	03-050-08	Water	---	3-5-25	
FL358-TB4-250305	03-050-09	Water	---	3-5-25	
FL358-TB5-250305	03-050-10	Water	---	3-5-25	

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-250305**					
Laboratory ID:	03-050-01					
Vinyl Chloride	4.6	2.0	EPA 8260D	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	4.0	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*115*	*68-133*				
Toluene-d8	*108*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-MW8-250305**					
Laboratory ID:	03-050-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*68-133*				
Toluene-d8	*109*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-MW9-250305**					
Laboratory ID:	03-050-03					
Vinyl Chloride (SIM)	0.61	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	13	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	2.2	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*118*	*68-133*				
Toluene-d8	*109*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW10-250305**					
Laboratory ID:	03-050-04					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*68-133*				
Toluene-d8	*108*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-MW14-250305**					
Laboratory ID:	03-050-05					
Vinyl Chloride	2.6	2.0	EPA 8260D	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	6.3	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*116*	*68-133*				
Toluene-d8	*109*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-DUP-250305**					
Laboratory ID:	03-050-06					
Vinyl Chloride	2.9	2.0	EPA 8260D	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	49	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	66	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	84	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*115*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-RB-250305**					
Laboratory ID:	03-050-07					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*68-133*				
Toluene-d8	*108*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-TB3-250305**					
Laboratory ID:	03-050-08					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*68-133*				
Toluene-d8	*107*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-TB4-250305**					
Laboratory ID:	03-050-09					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*68-133*				
Toluene-d8	*107*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-TB5-250305**					
Laboratory ID:	03-050-10					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*68-133*				
Toluene-d8	*107*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-250305**					
Laboratory ID:	03-050-01					
Methane	**890**	8.3	RSK 175	3-11-25	3-11-25	
Ethane	**ND**	0.56	RSK 175	3-11-25	3-11-25	
Ethene	**ND**	0.58	RSK 175	3-11-25	3-11-25	
Acetylene	**ND**	3.1	RSK 175	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*131*	*50-150*				
Client ID:	**FL358-MW8-250305**					
Laboratory ID:	03-050-02					
Methane	**73**	0.55	RSK 175	3-11-25	3-11-25	
Ethane	**ND**	0.56	RSK 175	3-11-25	3-11-25	
Ethene	**ND**	0.58	RSK 175	3-11-25	3-11-25	
Acetylene	**ND**	3.1	RSK 175	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*138*	*50-150*				
Client ID:	**FL358-MW9-250305**					
Laboratory ID:	03-050-03					
Methane	**1000**	8.3	RSK 175	3-11-25	3-11-25	
Ethane	**ND**	0.56	RSK 175	3-11-25	3-11-25	
Ethene	**ND**	0.58	RSK 175	3-11-25	3-11-25	
Acetylene	**ND**	3.1	RSK 175	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*134*	*50-150*				
Client ID:	**FL358-MW10-250305**					
Laboratory ID:	03-050-04					
Methane	**1400**	14	RSK 175	3-11-25	3-11-25	
Ethane	**ND**	0.56	RSK 175	3-11-25	3-11-25	
Ethene	**ND**	0.58	RSK 175	3-11-25	3-11-25	
Acetylene	**ND**	3.1	RSK 175	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*135*	*50-150*				

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Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW14-250305**					
Laboratory ID:	03-050-05					
Methane	**92**	0.55	RSK 175	3-11-25	3-11-25	
Ethane	**ND**	0.56	RSK 175	3-11-25	3-11-25	
Ethene	**ND**	0.58	RSK 175	3-11-25	3-11-25	
Acetylene	**ND**	3.1	RSK 175	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*144*	*50-150*				
Client ID:	**FL358-DUP-250305**					
Laboratory ID:	03-050-06					
Methane	**510**	5.5	RSK 175	3-11-25	3-11-25	
Ethane	**ND**	0.56	RSK 175	3-11-25	3-11-25	
Ethene	**ND**	0.58	RSK 175	3-11-25	3-11-25	
Acetylene	**ND**	3.1	RSK 175	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*140*	*50-150*				

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TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-250305**					
Laboratory ID:	03-050-01					
Total Organic Carbon	**17**	1.0	SM 5310B	3-13-25	3-13-25	
Client ID:	**FL358-MW8-250305**					
Laboratory ID:	03-050-02					
Total Organic Carbon	**4.6**	1.0	SM 5310B	3-13-25	3-13-25	
Client ID:	**FL358-MW9-250305**					
Laboratory ID:	03-050-03					
Total Organic Carbon	**12**	1.0	SM 5310B	3-13-25	3-13-25	
Client ID:	**FL358-MW10-250305**					
Laboratory ID:	03-050-04					
Total Organic Carbon	**13**	1.0	SM 5310B	3-13-25	3-13-25	
Client ID:	**FL358-MW14-250305**					
Laboratory ID:	03-050-05					
Total Organic Carbon	**11**	5.0	SM 5310B	3-18-25	3-18-25	
Client ID:	**FL358-DUP-250305**					
Laboratory ID:	03-050-06					
Total Organic Carbon	**10**	5.0	SM 5310B	3-18-25	3-18-25	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-250305**					
Laboratory ID:	03-050-01					
Ammonia	**2.4**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW8-250305**					
Laboratory ID:	03-050-02					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW9-250305**					
Laboratory ID:	03-050-03					
Ammonia	**1.2**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW10-250305**					
Laboratory ID:	03-050-04					
Ammonia	**0.97**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW14-250305**					
Laboratory ID:	03-050-05					
Ammonia	**0.059**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-DUP-250305**					
Laboratory ID:	03-050-06					
Ammonia	**0.056**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	

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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-250305**					
Laboratory ID:	03-050-01					
Nitrate	**17**	0.50	EPA 353.2	3-7-25	3-7-25	
Client ID:	**FL358-MW8-250305**					
Laboratory ID:	03-050-02					
Nitrate	**0.083**	0.050	EPA 353.2	3-7-25	3-7-25	
Client ID:	**FL358-MW9-250305**					
Laboratory ID:	03-050-03					
Nitrate	**ND**	0.050	EPA 353.2	3-7-25	3-7-25	
Client ID:	**FL358-MW10-250305**					
Laboratory ID:	03-050-04					
Nitrate	**1.3**	0.050	EPA 353.2	3-7-25	3-7-25	
Client ID:	**FL358-MW14-250305**					
Laboratory ID:	03-050-05					
Nitrate	**ND**	0.050	EPA 353.2	3-7-25	3-7-25	
Client ID:	**FL358-DUP-250305**					
Laboratory ID:	03-050-06					
Nitrate	**0.063**	0.050	EPA 353.2	3-7-25	3-7-25	

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NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-250305**					
Laboratory ID:	03-050-01					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-MW8-250305**					
Laboratory ID:	03-050-02					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-MW9-250305**					
Laboratory ID:	03-050-03					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-MW10-250305**					
Laboratory ID:	03-050-04					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-MW14-250305**					
Laboratory ID:	03-050-05					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-DUP-250305**					
Laboratory ID:	03-050-06					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	

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Project: 4082-039-03 T22.03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-250305**					
Laboratory ID:	03-050-01					
Sulfate	**31**	10	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-MW8-250305**					
Laboratory ID:	03-050-02					
Sulfate	**7.0**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-MW9-250305**					
Laboratory ID:	03-050-03					
Sulfate	**ND**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-MW10-250305**					
Laboratory ID:	03-050-04					
Sulfate	**ND**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-MW14-250305**					
Laboratory ID:	03-050-05					
Sulfate	**6.5**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-DUP-250305**					
Laboratory ID:	03-050-06					
Sulfate	**19**	5.0	ASTM D516-11	3-12-25	3-12-25	

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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-250305**					
Laboratory ID:	03-050-01					
Chloride	**21**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW8-250305**					
Laboratory ID:	03-050-02					
Chloride	**30**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW9-250305**					
Laboratory ID:	03-050-03					
Chloride	**22**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW10-250305**					
Laboratory ID:	03-050-04					
Chloride	**24**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW14-250305**					
Laboratory ID:	03-050-05					
Chloride	**28**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-DUP-250305**					
Laboratory ID:	03-050-06					
Chloride	**30**	2.0	SM 4500-Cl E	3-6-25	3-6-25	

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW7-250305**					
Laboratory ID:	03-050-01					
Iron	**38000**	500	EPA 6010D	3-10-25	3-11-25	
Client ID:	**FL358-MW8-250305**					
Laboratory ID:	03-050-02					
Iron	**540**	50	EPA 6010D	3-10-25	3-10-25	
Client ID:	**FL358-MW9-250305**					
Laboratory ID:	03-050-03					
Iron	**39000**	500	EPA 6010D	3-10-25	3-11-25	
Client ID:	**FL358-MW10-250305**					
Laboratory ID:	03-050-04					
Iron	**45000**	500	EPA 6010D	3-10-25	3-11-25	
Client ID:	**FL358-MW14-250305**					
Laboratory ID:	03-050-05					
Iron	**5300**	50	EPA 6010D	3-10-25	3-10-25	
Client ID:	**FL358-DUP-250305**					
Laboratory ID:	03-050-06					
Iron	**4300**	50	EPA 6010D	3-10-25	3-10-25	

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0307W1					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0307W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.5**	**10.2**	10.0	10.0	105	102	67-130	3	15	
1,1-Dichloroethene	**10.9**	**10.4**	10.0	10.0	109	104	74-125	5	15	
(trans) 1,2-Dichloroethene	**11.0**	**10.6**	10.0	10.0	110	106	77-125	4	15	
(cis) 1,2-Dichloroethene	**11.4**	**10.8**	10.0	10.0	114	108	78-130	5	15	
Trichloroethene	**10.7**	**10.1**	10.0	10.0	107	101	80-126	6	15	
Tetrachloroethene	**10.0**	**9.46**	10.0	10.0	100	95	80-125	6	15	
Surrogate:										
Dibromofluoromethane					*112*	*113*	*68-133*			
Toluene-d8					*109*	*109*	*79-123*			
4-Bromofluorobenzene					*101*	*101*	*78-117*			

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Methane	**ND**	0.55	RSK 175	3-11-25	3-11-25	
Ethane	**ND**	0.56	RSK 175	3-11-25	3-11-25	
Ethene	**ND**	0.58	RSK 175	3-11-25	3-11-25	
Acetylene	**ND**	3.1	RSK 175	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*139*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0311W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**43.3**	**41.0**	44.2	44.2	98	93	75-125	5	25	
Ethane	**83.7**	**78.8**	83.2	83.2	101	95	75-125	6	25	
Ethene	**90.8**	**84.6**	77.7	77.7	117	109	75-125	7	25	
Acetylene	**105**	**89.4**	72.0	72.0	146	124	60-140	16	25	I
Surrogate:										
1-Butene					*103*	*95*	*50-150*			

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0313W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	3-13-25	3-13-25	
Laboratory ID:	MB0318W1					
Total Organic Carbon	**ND**	5.0	SM 5310B	3-18-25	3-18-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-025-01								
	ORIG	DUP							
Total Organic Carbon	**13.0**	**13.1**	NA	NA	NA	NA	1	11	
Laboratory ID:	03-050-05								
	ORIG	DUP							
Total Organic Carbon	**11.2**	**11.7**	NA	NA	NA	NA	4	11	
MATRIX SPIKE									
Laboratory ID:	03-025-01								
	MS		MS		MS				
Total Organic Carbon	**23.2**		10.0	13.0	102	85-120	NA	NA	
Laboratory ID:	03-050-05								
	MS		MS		MS				
Total Organic Carbon	**21.6**		10.0	11.2	104	85-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0313W1								
	SB		SB		SB				
Total Organic Carbon	**10.2**		10.0	NA	102	79-120	NA	NA	
Laboratory ID:	SB0318W1								
	SB		SB		SB				
Total Organic Carbon	**11.5**		10.0	NA	115	79-120	NA	NA	

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-050-01								
	ORIG	DUP							
Ammonia	**2.37**	**2.34**	NA	NA	NA	NA	1	15	
MATRIX SPIKE									
Laboratory ID:	03-050-01								
	MS		MS		MS				
Ammonia	**7.14**		5.00	2.37	95	75-111	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0308W1								
	SB		SB		SB				
Ammonia	**5.31**		5.00	NA	106	81-110	NA	NA	

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0307W1					
Nitrate	**ND**	0.050	EPA 353.2	3-7-25	3-7-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-063-01								
	ORIG	DUP							
Nitrate	**0.883**	**0.870**	NA	NA	NA	NA	1	22	
MATRIX SPIKE									
Laboratory ID:	03-063-01								
	MS		MS		MS				
Nitrate	**2.92**		2.00	0.883	102	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0307W1								
	SB		SB		SB				
Nitrate	**1.84**		2.00	NA	92	85-117	NA	NA	

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Date of Report: March 19, 2025
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Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0306W1					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-050-02							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	03-050-02							
	MS	MS		MS				
Nitrite	**0.263**	0.250	ND	105	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0306W1							
	SB	SB		SB				
Nitrite	**0.261**	0.250	NA	104	91-116	NA	NA	

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Date of Report: March 19, 2025
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Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0312W1					
Sulfate	**ND**	5.0	ASTM D516-11	3-12-25	3-12-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-050-02								
	ORIG	DUP							
Sulfate	**6.99**	**7.06**	NA	NA	NA	NA	1	11	
MATRIX SPIKE									
Laboratory ID:	03-050-02								
	MS		MS		MS				
Sulfate	**17.7**		10.0	6.99	107	69-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0312W1								
	SB		SB		SB				
Sulfate	**9.91**		10.0	NA	99	81-106	NA	NA	

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0306W1					
Chloride	**ND**	2.0	SM 4500-Cl E	3-6-25	3-6-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-050-02								
	ORIG	DUP							
Chloride	**30.2**	**30.7**	NA	NA	NA	NA	2	21	
MATRIX SPIKE									
Laboratory ID:	03-050-02								
	MS		MS		MS				
Chloride	**80.9**		50.0	30.2	101	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0306								
	SB		SB		SB				
Chloride	**47.7**		50.0	NA	95	77-115	NA	NA	

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Date of Report: March 19, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-050
Project: 4082-039-03 T22.03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310WH1					
Iron	**ND**	50	EPA 6010D	3-10-25	3-10-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-309-02										
	ORIG	DUP									
Iron	**626**	**594**	NA	NA		NA		NA	5	20	
MATRIX SPIKES											
Laboratory ID:	02-309-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**23400**	**20900**	20000	20000	626	**114**	**101**	75-125	11	20	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

March 18, 2025

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: OSE
Project Number: 4082-039-03 T22.03
COC Number: 03-050

David Baumeister:

Enclosed please find the analytical data for your OSE project.

Your sample(s) were received on Thursday, March 6, 2025 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.
Sincerely,

Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/06/25
Date Reported: 03/18/25

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A25C0120-01	FL358-MW7-250305	Water		03/05/2025	03/06/2025
A25C0120-02	FL358-MW8-250305	Water		03/05/2025	03/06/2025
A25C0120-03	FL358-MW9-250305	Water		03/05/2025	03/06/2025
A25C0120-04	FL358-MW10-250305	Water		03/05/2025	03/06/2025
A25C0120-05	FL358-MW14-250305	Water		03/05/2025	03/06/2025
A25C0120-06	FL358-DUP-250305	Water		03/05/2025	03/06/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
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Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/06/25
Date Reported: 03/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

AMTEST Identification Number: A25C0120-01
Client Identification: FL358-MW7-250305
Sampling Date: 03/05/25 14:45

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	12	mg/L		2	SM 5210B_2011	MK	03/06/2025

AMTEST Identification Number: A25C0120-02
Client Identification: FL358-MW8-250305
Sampling Date: 03/05/25 09:10

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	3	mg/L		2	SM 5210B_2011	MK	03/06/2025

AMTEST Identification Number: A25C0120-03
Client Identification: FL358-MW9-250305
Sampling Date: 03/05/25 11:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	7	mg/L	S	2	SM 5210B_2011	MK	03/06/2025

AMTEST Identification Number: A25C0120-04
Client Identification: FL358-MW10-250305
Sampling Date: 03/05/25 11:02

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	18	mg/L		2	SM 5210B_2011	MK	03/06/2025

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/06/25
Date Reported: 03/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

AMTEST Identification Number: A25C0120-05
Client Identification: FL358-MW14-250305
Sampling Date: 03/05/25 13:03

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	4	mg/L		2	SM 5210B_2011	MK	03/06/2025

AMTEST Identification Number: A25C0120-06
Client Identification: FL358-DUP-250305
Sampling Date: 03/05/25 16:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	5	mg/L		2	SM 5210B_2011	MK	03/06/2025

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

Date Received: 03/06/25
Date Reported: 03/18/25

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCC0179 - No Prep - WetChem										
Calibration Blank (BCC0179-CCB1)					Prepared & Analyzed: 03/06/25					
Biological Oxygen Demand (BOD)	ND	U		mg/L						
Duplicate (BCC0179-DUP2)		**Source: A25C0120-02**			Prepared & Analyzed: 03/06/25					
Biological Oxygen Demand (BOD)	2		2	mg/L		3			11	35.5

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Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/06/25
Date Reported: 03/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

Notes and Definitions

Item	Definition
S	The sample did not meet the method specification of 2 ppm depletion.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

A25C0120

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 03-050

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03 T22.03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW7-250305	3/5/25	14:45	W	1	BOD SM521B
02	FL358-MW8-250305	3/5/25	9:10	W	1	BOD SM521B
03	FL358-MW9-250305	3/5/25	11:00	W	1	BOD SM521B
04	FL358-MW10-250305	3/5/25	11:02	W	1	BOD SM521B
05	FL358-MW14-250305	3/5/25	13:03	W	1	BOD SM521B
06	FL358-GW DUP-250305	3/5/25	16:00	W	1	BOD SM521B

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	3/6/25	1141	6.3°
Received by:	AmTest	3/6/25	1141	
Relinquished by:				EDDs
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03 T22.03
Project Name: FL358
Project Manager: Brittany Waite
Sampled by: JAK, DK, RM

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 03-050

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FL358- MW7-250305	03/5/25	1445	W	11
2	FL358- MW8-250305	03/5/25	0910	W	
3	FL358- MW9-250305	03/5/25	1100	W	
4	FL358- MW10-250305	03/5/25	1102	W	
5	FL358- MW14-250305	03/5/25	1303	W	
6	FL358- ~~DUP~~ MS DUP-250305	03/5/25	1600	W	
7	FL358- RB-250305	03/5/25	1320	W	3
8	FL358- TB3-250305	03/5/25	—	W	
9	FL358- TB4-250305	03/5/25	—	W	
10	FL358- TB5-250305	03/5/25	—	W	

Analysis	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3
NWTPH-HCID				
NWTPH-Gx/BTEX				
NWTPH-Gx				
NWTPH-Dx (☐ Acid / SG Clean-up)				
Volatiles 8260C				
Halogenated Volatiles 8260C				
EDB EPA 8011 (Waters Only)				
Semivolatiles 8270D/SIM (with low-level PAHs)				
PAHs 8270D/SIM (low-level)				
PCBs 8082A				
Organochlorine Pesticides 8081B				
Organophosphorus Pesticides 8270D/SIM				
Chlorinated Acid Herbicides 8151A				
Total RCRA Metals				
Total MTCA Metals				
TCLP Metals				
HEM (oil and grease) 1664A				
% Moisture				
	X		X	X

	Signature	Company	Date	Time
Relinquished		GEI	3/5/25	1635
Received		OSE	3/5/25	1635
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 26, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03 T22.03
Laboratory Reference No. 2503-025

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on March 4, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-025
Project: 4082-039-03 T22.03

Case Narrative

Samples were collected on March 3, 2025 and received by the laboratory on March 4, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Dissolved Gasses by RSK-175 Analysis

Acetylene recovery was above laboratory control limits in the SB and SBD samples. Because this shows a high bias and no Acetylene was detected in other samples, no further action was required.

Nitrate (as Nitrogen) Analysis EPA 353.2

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-025
Project: 4082-039-03 T22.03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW19-250303	03-025-01	Water	3-3-25	3-4-25	
FL358-MW21-250303	03-025-02	Water	3-3-25	3-4-25	
FL358-MW23-250303	03-025-03	Water	3-3-25	3-4-25	
FL358-MW24-250303	03-025-04	Water	3-3-25	3-4-25	
FL358-MW25-250303	03-025-05	Water	3-3-25	3-4-25	
FL358-MW22-250303	03-025-06	Water	3-3-25	3-4-25	
FL358-MW27-250303	03-025-07	Water	3-3-25	3-4-25	
FL358-MW29-250303	03-025-08	Water	3-3-25	3-4-25	
FL358-RB-250303	03-025-09	Water	3-3-25	3-4-25	
FL358-TB1-250303	03-025-10	Water	---	3-4-25	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-025
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW19-250303**					
Laboratory ID:	03-025-01					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-6-25	3-6-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Trichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*68-133*				
Toluene-d8	*108*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Client ID:	**FL358-MW21-250303**					
Laboratory ID:	03-025-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-6-25	3-6-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Trichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*68-133*				
Toluene-d8	*107*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-MW23-250303**					
Laboratory ID:	03-025-03					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-6-25	3-6-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Trichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*68-133*				
Toluene-d8	*108*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-025
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW24-250303**					
Laboratory ID:	03-025-04					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-6-25	3-6-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Trichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*68-133*				
Toluene-d8	*107*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-MW25-250303**					
Laboratory ID:	03-025-05					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-6-25	3-6-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Trichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**FL358-MW22-250303**					
Laboratory ID:	03-025-06					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-6-25	3-6-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Trichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*115*	*68-133*				
Toluene-d8	*109*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-025
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27-250303**					
Laboratory ID:	03-025-07					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-6-25	3-6-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Trichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*115*	*68-133*				
Toluene-d8	*108*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-MW29-250303**					
Laboratory ID:	03-025-08					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-6-25	3-6-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Trichloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-6-25	3-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*68-133*				
Toluene-d8	*107*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-RB-250303**					
Laboratory ID:	03-025-09					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-6-25	3-6-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
Trichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
Tetrachloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-025
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-TB1-250303**					
Laboratory ID:	03-025-10					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-6-25	3-6-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
Trichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
Tetrachloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-025
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW19-250303**					
Laboratory ID:	03-025-01					
Methane	**1100**	8.3	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*130*	*50-150*				
Client ID:	**FL358-MW21-250303**					
Laboratory ID:	03-025-02					
Methane	**3500**	28	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*123*	*50-150*				
Client ID:	**FL358-MW23-250303**					
Laboratory ID:	03-025-03					
Methane	**360**	5.5	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*122*	*50-150*				
Client ID:	**FL358-MW24-250303**					
Laboratory ID:	03-025-04					
Methane	**43**	0.55	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*137*	*50-150*				

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-025
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW25-250303**					
Laboratory ID:	03-025-05					
Methane	**150**	1.7	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*124*	*50-150*				
Client ID:	**FL358-MW22-250303**					
Laboratory ID:	03-025-06					
Methane	**2000**	28	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*97*	*50-150*				
Client ID:	**FL358-MW27-250303**					
Laboratory ID:	03-025-07					
Methane	**2600**	28	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*134*	*50-150*				
Client ID:	**FL358-MW29-250303**					
Laboratory ID:	03-025-08					
Methane	**2000**	28	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*138*	*50-150*				

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-025
Project: 4082-039-03 T22.03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW19-250303**					
Laboratory ID:	03-025-01					
Total Organic Carbon	**13**	1.0	SM 5310B	3-13-25	3-13-25	
Client ID:	**FL358-MW21-250303**					
Laboratory ID:	03-025-02					
Total Organic Carbon	**22**	1.0	SM 5310B	3-13-25	3-13-25	
Client ID:	**FL358-MW23-250303**					
Laboratory ID:	03-025-03					
Total Organic Carbon	**11**	1.0	SM 5310B	3-13-25	3-13-25	
Client ID:	**FL358-MW24-250303**					
Laboratory ID:	03-025-04					
Total Organic Carbon	**5.9**	1.0	SM 5310B	3-13-25	3-13-25	
Client ID:	**FL358-MW25-250303**					
Laboratory ID:	03-025-05					
Total Organic Carbon	**1.7**	1.0	SM 5310B	3-13-25	3-13-25	
Client ID:	**FL358-MW22-250303**					
Laboratory ID:	03-025-06					
Total Organic Carbon	**54**	1.0	SM 5310B	3-13-25	3-13-25	
Client ID:	**FL358-MW27-250303**					
Laboratory ID:	03-025-07					
Total Organic Carbon	**26**	1.0	SM 5310B	3-13-25	3-13-25	
Client ID:	**FL358-MW29-250303**					
Laboratory ID:	03-025-08					
Total Organic Carbon	**21**	1.0	SM 5310B	3-13-25	3-13-25	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW19-250303**					
Laboratory ID:	03-025-01					
Ammonia	**1.1**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW21-250303**					
Laboratory ID:	03-025-02					
Ammonia	**2.6**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW23-250303**					
Laboratory ID:	03-025-03					
Ammonia	**0.51**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW24-250303**					
Laboratory ID:	03-025-04					
Ammonia	**0.100**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW25-250303**					
Laboratory ID:	03-025-05					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW22-250303**					
Laboratory ID:	03-025-06					
Ammonia	**9.4**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW27-250303**					
Laboratory ID:	03-025-07					
Ammonia	**2.1**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW29-250303**					
Laboratory ID:	03-025-08					
Ammonia	**1.1**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	

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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW19-250303**					
Laboratory ID:	03-025-01					
Nitrate	**0.10**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW21-250303**					
Laboratory ID:	03-025-02					
Nitrate	**0.22**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW23-250303**					
Laboratory ID:	03-025-03					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW24-250303**					
Laboratory ID:	03-025-04					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW25-250303**					
Laboratory ID:	03-025-05					
Nitrate	**0.51**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW22-250303**					
Laboratory ID:	03-025-06					
Nitrate	**0.17**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW27-250303**					
Laboratory ID:	03-025-07					
Nitrate	**0.081**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW29-250303**					
Laboratory ID:	03-025-08					
Nitrate	**0.49**	0.050	EPA 353.2	3-25-25	3-25-25	

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NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW19-250303**					
Laboratory ID:	03-025-01					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	
Client ID:	**FL358-MW21-250303**					
Laboratory ID:	03-025-02					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	
Client ID:	**FL358-MW23-250303**					
Laboratory ID:	03-025-03					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	
Client ID:	**FL358-MW24-250303**					
Laboratory ID:	03-025-04					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	
Client ID:	**FL358-MW25-250303**					
Laboratory ID:	03-025-05					
Nitrite	**0.028**	0.020	EPA 353.2	3-5-25	3-5-25	
Client ID:	**FL358-MW22-250303**					
Laboratory ID:	03-025-06					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	
Client ID:	**FL358-MW27-250303**					
Laboratory ID:	03-025-07					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	
Client ID:	**FL358-MW29-250303**					
Laboratory ID:	03-025-08					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	

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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW19-250303**					
Laboratory ID:	03-025-01					
Sulfate	**ND**	5.0	ASTM D516-11	3-20-25	3-20-25	
Client ID:	**FL358-MW21-250303**					
Laboratory ID:	03-025-02					
Sulfate	**ND**	5.0	ASTM D516-11	3-20-25	3-20-25	
Client ID:	**FL358-MW23-250303**					
Laboratory ID:	03-025-03					
Sulfate	**23**	10	ASTM D516-11	3-20-25	3-20-25	
Client ID:	**FL358-MW24-250303**					
Laboratory ID:	03-025-04					
Sulfate	**23**	5.0	ASTM D516-11	3-20-25	3-20-25	
Client ID:	**FL358-MW25-250303**					
Laboratory ID:	03-025-05					
Sulfate	**19**	10	ASTM D516-11	3-20-25	3-20-25	
Client ID:	**FL358-MW22-250303**					
Laboratory ID:	03-025-06					
Sulfate	**41**	10	ASTM D516-11	3-20-25	3-20-25	
Client ID:	**FL358-MW27-250303**					
Laboratory ID:	03-025-07					
Sulfate	**ND**	5.0	ASTM D516-11	3-20-25	3-20-25	
Client ID:	**FL358-MW29-250303**					
Laboratory ID:	03-025-08					
Sulfate	**11**	5.0	ASTM D516-11	3-20-25	3-20-25	

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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW19-250303**					
Laboratory ID:	03-025-01					
Chloride	**19**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW21-250303**					
Laboratory ID:	03-025-02					
Chloride	**16**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW23-250303**					
Laboratory ID:	03-025-03					
Chloride	**51**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW24-250303**					
Laboratory ID:	03-025-04					
Chloride	**59**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW25-250303**					
Laboratory ID:	03-025-05					
Chloride	**29**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW22-250303**					
Laboratory ID:	03-025-06					
Chloride	**16**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW27-250303**					
Laboratory ID:	03-025-07					
Chloride	**16**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW29-250303**					
Laboratory ID:	03-025-08					
Chloride	**60**	2.0	SM 4500-Cl E	3-6-25	3-6-25	

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TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW19-250303**					
Laboratory ID:	03-025-01					
Iron	**45000**	500	EPA 6010D	3-6-25	3-11-25	
Client ID:	**FL358-MW21-250303**					
Laboratory ID:	03-025-02					
Iron	**69000**	500	EPA 6010D	3-6-25	3-11-25	
Client ID:	**FL358-MW23-250303**					
Laboratory ID:	03-025-03					
Iron	**3000**	50	EPA 6010D	3-6-25	3-10-25	
Client ID:	**FL358-MW24-250303**					
Laboratory ID:	03-025-04					
Iron	**820**	50	EPA 6010D	3-6-25	3-10-25	
Client ID:	**FL358-MW25-250303**					
Laboratory ID:	03-025-05					
Iron	**1400**	50	EPA 6010D	3-6-25	3-10-25	
Client ID:	**FL358-MW22-250303**					
Laboratory ID:	03-025-06					
Iron	**98000**	500	EPA 6010D	3-6-25	3-11-25	
Client ID:	**FL358-MW27-250303**					
Laboratory ID:	03-025-07					
Iron	**30000**	500	EPA 6010D	3-6-25	3-11-25	
Client ID:	**FL358-MW29-250303**					
Laboratory ID:	03-025-08					
Iron	**70000**	500	EPA 6010D	3-6-25	3-11-25	

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VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0306W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-6-25	3-6-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
Trichloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
Tetrachloroethene	ND	0.20	EPA 8260D	3-6-25	3-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*68-133*				
Toluene-d8	*107*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-029-04										
	MS	MSD	MS	MSD		MS	MSD				
Vinyl Chloride	**11.2**	**10.2**	10.0	10.0	ND	112	102	62-121	9	15	
1,1-Dichloroethene	**11.4**	**10.5**	10.0	10.0	ND	114	105	76-119	8	15	
(trans) 1,2-Dichloroethene	**11.5**	**10.6**	10.0	10.0	ND	115	106	79-120	8	16	
(cis) 1,2-Dichloroethene	**11.9**	**10.8**	10.0	10.0	ND	119	108	81-128	10	16	
Trichloroethene	**11.4**	**10.3**	10.0	10.0	ND	114	103	80-130	10	12	
Tetrachloroethene	**10.8**	**9.94**	10.0	10.0	ND	108	99	84-126	8	19	
Surrogate:											
Dibromofluoromethane						*113*	*114*	*68-133*			
Toluene-d8						*107*	*109*	*79-123*			
4-Bromofluorobenzene						*100*	*100*	*78-117*			

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DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310W1					
Methane	**ND**	0.55	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*120*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0310W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**38.2**	**43.5**	44.2	44.2	86	98	75-125	13	25	
Ethane	**74.9**	**86.8**	83.2	83.2	90	104	75-125	15	25	
Ethene	**83.8**	**96.5**	77.7	77.7	108	124	75-125	14	25	
Acetylene	**128**	**161**	72.0	72.0	178	224	60-140	23	25	I,I
Surrogate:										
1-Butene					*101*	*127*	*50-150*			

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TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0313W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	3-13-25	3-13-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-025-01								
	ORIG	DUP							
Total Organic Carbon	**13.0**	**13.1**	NA	NA	NA	NA	1	11	
MATRIX SPIKE									
Laboratory ID:	03-025-01								
	MS		MS		MS				
Total Organic Carbon	**23.2**		10.0	13.0	102	85-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0313W1								
	SB		SB		SB				
Total Organic Carbon	**10.2**		10.0	NA	102	79-120	NA	NA	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-029-04							
	ORIG DUP							
Ammonia	**ND** **ND**	NA	NA	NA	NA	NA	15	
MATRIX SPIKE								
Laboratory ID:	03-029-04							
	MS	MS		MS				
Ammonia	**5.38**	5.00	ND	108	75-111	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0308W1							
	SB	SB		SB				
Ammonia	**5.33**	5.00	NA	107	81-110	NA	NA	

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NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325W2					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-025-01								
	ORIG	DUP							
Nitrate	**0.104**	**0.103**	NA	NA	NA	NA	1	22	
MATRIX SPIKE									
Laboratory ID:	03-025-01								
	MS		MS		MS				
Nitrate	**2.33**		2.00	0.104	111	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0325W2								
	SB		SB		SB				
Nitrate	**2.23**		2.00	NA	112	85-117	NA	NA	

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NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0305W1					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-025-07							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	03-025-07							
	MS	MS		MS				
Nitrite	**0.265**	0.250	ND	106	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0305W1							
	SB	SB		SB				
Nitrite	**0.263**	0.250	NA	105	91-116	NA	NA	

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Project: 4082-039-03 T22.03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0320W1					
Sulfate	**ND**	5.0	ASTM D516-11	3-20-25	3-20-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-025-03								
	ORIG	DUP							
Sulfate	**22.9**	**24.6**	NA	NA	NA	NA	7	11	
MATRIX SPIKE									
Laboratory ID:	03-025-03								
	MS		MS		MS				
Sulfate	**40.5**		20.0	22.9	88	69-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0320W1								
	SB		SB		SB				
Sulfate	**9.01**		10.0	NA	90	81-106	NA	NA	

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CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0306W1					
Chloride	**ND**	2.0	SM 4500-Cl E	3-6-25	3-6-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-029-04								
	ORIG	DUP							
Chloride	**60.4**	**61.2**	NA	NA	NA	NA	1	21	
MATRIX SPIKE									
Laboratory ID:	03-029-04								
	MS		MS		MS				
Chloride	**158**		100.0	60.4	98	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0306W1								
	SB		SB		SB				
Chloride	**44.8**		50.0	NA	90	77-115	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-025
Project: 4082-039-03 T22.03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0306WH2					
Iron	**ND**	50	EPA 6010D	3-6-25	3-6-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-309-07										
	ORIG	DUP									
Iron	**385**	**420**	NA	NA		NA		NA	9	20	
MATRIX SPIKES											
Laboratory ID:	02-309-07										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22200**	**21000**	20000	20000	385	**109**	**103**	75-125	5	20	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

March 10, 2025

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: OSE
Project Number: 4082-039-03 T22.03
COC Number: 03-025

David Baumeister:

Enclosed please find the analytical data for your OSE project.

Your sample(s) were received on Tuesday, March 4, 2025 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.
Sincerely,

Aaron Young

ElementStationManager For Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/04/25
Date Reported: 03/10/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A25C0075-01	FL358-MW19-250303	Water		03/03/2025	03/04/2025
A25C0075-02	FL358-MW21-250303	Water		03/03/2025	03/04/2025
A25C0075-03	FL358-MW23-250303	Water		03/03/2025	03/04/2025
A25C0075-04	FL358-MW24-250303	Water		03/03/2025	03/04/2025
A25C0075-05	FL358-MW25-250303	Water		03/03/2025	03/04/2025
A25C0075-06	FL358-MW22-250303	Water		03/03/2025	03/04/2025
A25C0075-07	FL358-MW27-250303	Water		03/03/2025	03/04/2025
A25C0075-08	FL358-MW29-250303	Water		03/03/2025	03/04/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/04/25
Date Reported: 03/10/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

AMTEST Identification Number: A25C0075-01
Client Identification: FL358-MW19-250303
Sampling Date: 03/03/25 15:19

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	11	mg/L		2	SM 5210B_2011	JM	03/05/2025

AMTEST Identification Number: A25C0075-02
Client Identification: FL358-MW21-250303
Sampling Date: 03/03/25 15:50

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	15	mg/L		2	SM 5210B_2011	JM	03/05/2025

AMTEST Identification Number: A25C0075-03
Client Identification: FL358-MW23-250303
Sampling Date: 03/03/25 09:50

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	5	mg/L		2	SM 5210B_2011	JM	03/05/2025

AMTEST Identification Number: A25C0075-04
Client Identification: FL358-MW24-250303
Sampling Date: 03/03/25 15:10

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	2	mg/L		2	SM 5210B_2011	JM	03/05/2025

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/04/25
Date Reported: 03/10/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

AMTEST Identification Number: A25C0075-05
Client Identification: FL358-MW25-250303
Sampling Date: 03/03/25 12:40

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	4	mg/L		2	SM 5210B_2011	JM	03/05/2025

AMTEST Identification Number: A25C0075-06
Client Identification: FL358-MW22-250303
Sampling Date: 03/03/25 12:06

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	31	mg/L		2	SM 5210B_2011	JM	03/05/2025

AMTEST Identification Number: A25C0075-07
Client Identification: FL358-MW27-250303
Sampling Date: 03/03/25 09:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	18	mg/L	S	2	SM 5210B_2011	JM	03/05/2025

AMTEST Identification Number: A25C0075-08
Client Identification: FL358-MW29-250303
Sampling Date: 03/03/25 12:20

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	23	mg/L		2	SM 5210B_2011	JM	03/05/2025

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

Date Received: 03/04/25
Date Reported: 03/10/25

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCC0151 - No Prep - WetChem										
Calibration Blank (BCC0151-CCB1)					Prepared & Analyzed: 03/05/25					
Biological Oxygen Demand (BOD)	ND	U		mg/L						
Duplicate (BCC0151-DUP2)		**Source: A25C0075-04**			Prepared & Analyzed: 03/05/25					
Biological Oxygen Demand (BOD)	3		2	mg/L		2			30	35.5

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ANALYSIS REPORT

Professional Analytical Services

Date Received: 03/04/25
Date Reported: 03/10/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

Notes and Definitions

Item	Definition
S	The sample did not meet the method specification of 2 ppm depletion.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

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A25C0075

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 03-025

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03 T22.03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW19-250303	3/3/25	15:19	Water	1	BOD
02	FL358-MW21-250303	3/3/25	15:50	Water	1	BOD
03	FL358-MW23-250303	3/3/25	9:50	Water	1	BOD
04	FL358-MW24-250303	3/3/25	15:10	Water	1	BOD
05	FL358-MW25-250303	3/3/25	12:40	Water	1	BOD
06	FL358-MW22-250303	3/3/25	12:06	Water	1	BOD
07	FL358-MW27-250303	3/3/25	9:00	Water	1	BOD
08	FL358-MW29-250303	3/3/25	12:20	Water	1	BOD

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	3/4/25	5:10 PM	
Received by: Aaron Young	AmTest	3/4/25	5:10p	
Relinquished by:				**EDDs**
Received by:				
Relinquished by:				
Received by:				

3.6°C

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03 T22.03
Project Name: FL358
Project Manager: Brittany Waite
Sampled by: JAK, DK, RM

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 03-025

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FL358-MW19-250303	03/3/25	1514	W	11
2	FL358-MW21-250303	03/3/25	1550	W	
3	FL358-MW23-250303	03/3/25	0950	W	
4	FL358-MW24-250303	03/3/25	1510	W	
5	FL358-MW25-250303	03/3/25	1240	W	
6	FL358-MW22-250303	03/3/25	1206	W	
7	FL358-MW27-250303	03/3/25	0900	W	
8	FL358-MW29-250303	03/3/25	1220	W	
9	FL358-RB-250303	03/3/25	1545	W	3
10	FL358-TB1-250303	03/3/25	—	W	2

Analysis	Lab ID 1	Lab ID 2	Lab ID 3	Lab ID 4	Lab ID 5	Lab ID 6	Lab ID 7	Lab ID 8	Lab ID 9	Lab ID 10
NWTPH-HCID										
NWTPH-Gx/BTEX										
NWTPH-Gx										
NWTPH-Dx (☐ Acid / SG Clean-up)										
Volatiles 8260C										
Halogenated Volatiles 8260C										
EDB EPA 8011 (Waters Only)										
Semivolatiles 8270D/SIM (with low-level PAHs)										
PAHs 8270D/SIM (low-level)										
PCBs 8082A										
Organochlorine Pesticides 8081B										
Organophosphorus Pesticides 8270D/SIM										
Chlorinated Acid Herbicides 8151A										
Total RCRA Metals										
Total MTCA Metals										
TCLP Metals										
HEM (oil and grease) 1664A										
Project VOCs (See Note 1)	X									
Ferrous Iron (SM3500-Fe)										
Project Dissolved Gasses. See Note 2	X									
Gen Chemistry, See Note 3	X									
% Moisture										

	Signature	Company	Date	Time
Relinquished		GEI	3/4	1430
Received		GDP	3/4/25	13:30
Relinquished		GDP	3/4/25	15:40
Received	Nichelle Blair	ESE	3/4/25	1540
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 26, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03 T22.03
Laboratory Reference No. 2503-026

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on March 4, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

Case Narrative

Samples were collected on March 4, 2025 and received by the laboratory on March 4, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Dissolved Gasses by RSK-175 Analysis

Acetylene recovery was above laboratory control limits in the SB and SBD samples. Because this shows a high bias and no Acetylene was detected in other samples, no further action was required.

Nitrate (as Nitrogen) Analysis EPA 353.2

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW13-250304	03-026-01	Water	3-4-25	3-4-25	
FL358-MW15-250304	03-026-02	Water	3-4-25	3-4-25	
FL358-MW20-250304	03-026-03	Water	3-4-25	3-4-25	
FL358-MW30-250304	03-026-04	Water	3-4-25	3-4-25	
FL358-TB2-250304	03-026-05	---	3-4-25	3-4-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-250304**					
Laboratory ID:	03-026-01					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-11-25	3-11-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	2.7	2.0	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	3.5	2.0	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-MW15-250304**					
Laboratory ID:	03-026-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-11-25	3-11-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-MW20-250304**					
Laboratory ID:	03-026-03					
Vinyl Chloride (SIM)	0.60	0.20	EPA 8260D/SIM	3-11-25	3-11-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW30-250304**					
Laboratory ID:	03-026-04					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-11-25	3-11-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-TB2-250304**					
Laboratory ID:	03-026-05					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-11-25	3-11-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-250304**					
Laboratory ID:	03-026-01					
Methane	**43**	0.55	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*147*	*50-150*				
Client ID:	**FL358-MW15-250304**					
Laboratory ID:	03-026-02					
Methane	**1100**	11	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*138*	*50-150*				
Client ID:	**FL358-MW20-250304**					
Laboratory ID:	03-026-03					
Methane	**710**	8.3	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*145*	*50-150*				
Client ID:	**FL358-MW30-250304**					
Laboratory ID:	03-026-04					
Methane	**170**	2.8	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*137*	*50-150*				

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-250304**					
Laboratory ID:	03-026-01					
Total Organic Carbon	**9.3**	1.0	SM 5310B	3-11-25	3-11-25	
Client ID:	**FL358-MW15-250304**					
Laboratory ID:	03-026-02					
Total Organic Carbon	**27**	1.0	SM 5310B	3-11-25	3-11-25	
Client ID:	**FL358-MW20-250304**					
Laboratory ID:	03-026-03					
Total Organic Carbon	**14**	1.0	SM 5310B	3-11-25	3-11-25	
Client ID:	**FL358-MW30-250304**					
Laboratory ID:	03-026-04					
Total Organic Carbon	**33**	1.0	SM 5310B	3-11-25	3-11-25	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-250304**					
Laboratory ID:	03-026-01					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW15-250304**					
Laboratory ID:	03-026-02					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW20-250304**					
Laboratory ID:	03-026-03					
Ammonia	**1.1**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW30-250304**					
Laboratory ID:	03-026-04					
Ammonia	**1.1**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-250304**					
Laboratory ID:	03-026-01					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW15-250304**					
Laboratory ID:	03-026-02					
Nitrate	**0.070**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW20-250304**					
Laboratory ID:	03-026-03					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW30-250304**					
Laboratory ID:	03-026-04					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-250304**					
Laboratory ID:	03-026-01					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	
Client ID:	**FL358-MW15-250304**					
Laboratory ID:	03-026-02					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	
Client ID:	**FL358-MW20-250304**					
Laboratory ID:	03-026-03					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	
Client ID:	**FL358-MW30-250304**					
Laboratory ID:	03-026-04					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-250304**					
Laboratory ID:	03-026-01					
Sulfate	**ND**	5.0	ASTM D516-11	3-20-25	3-20-25	
Client ID:	**FL358-MW15-250304**					
Laboratory ID:	03-026-02					
Sulfate	**ND**	5.0	ASTM D516-11	3-20-25	3-20-25	
Client ID:	**FL358-MW20-250304**					
Laboratory ID:	03-026-03					
Sulfate	**35**	10	ASTM D516-11	3-20-25	3-20-25	
Client ID:	**FL358-MW30-250304**					
Laboratory ID:	03-026-04					
Sulfate	**88**	20	ASTM D516-11	3-20-25	3-20-25	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-250304**					
Laboratory ID:	03-026-01					
Chloride	**45**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW15-250304**					
Laboratory ID:	03-026-02					
Chloride	**72**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW20-250304**					
Laboratory ID:	03-026-03					
Chloride	**59**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW30-250304**					
Laboratory ID:	03-026-04					
Chloride	**15**	2.0	SM 4500-Cl E	3-6-25	3-6-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW13-250304**					
Laboratory ID:	03-026-01					
Iron	**4400**	50	EPA 6010D	3-6-25	3-10-25	
Client ID:	**FL358-MW15-250304**					
Laboratory ID:	03-026-02					
Iron	**35000**	500	EPA 6010D	3-6-25	3-11-25	
Client ID:	**FL358-MW20-250304**					
Laboratory ID:	03-026-03					
Iron	**22000**	50	EPA 6010D	3-6-25	3-10-25	
Client ID:	**FL358-MW30-250304**					
Laboratory ID:	03-026-04					
Iron	**9400**	50	EPA 6010D	3-6-25	3-10-25	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	3-11-25	3-11-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Trichloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Tetrachloroethene	ND	0.20	EPA 8260D	3-11-25	3-11-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0311W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.94**	**8.64**	10.0	10.0	99	86	67-130	14	15	
1,1-Dichloroethene	**9.81**	**8.87**	10.0	10.0	98	89	74-125	10	15	
(trans) 1,2-Dichloroethene	**9.91**	**8.93**	10.0	10.0	99	89	77-125	10	15	
(cis) 1,2-Dichloroethene	**9.92**	**8.91**	10.0	10.0	99	89	78-130	11	15	
Trichloroethene	**11.1**	**9.84**	10.0	10.0	111	98	80-126	12	15	
Tetrachloroethene	**11.2**	**10.1**	10.0	10.0	112	101	80-125	10	15	
Surrogate:										
Dibromofluoromethane					*90*	*90*	*68-133*			
Toluene-d8					*99*	*98*	*79-123*			
4-Bromofluorobenzene					*102*	*101*	*78-117*			

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310W1					
Methane	**ND**	0.55	RSK 175	3-10-25	3-10-25	
Ethane	**ND**	0.56	RSK 175	3-10-25	3-10-25	
Ethene	**ND**	0.58	RSK 175	3-10-25	3-10-25	
Acetylene	**ND**	3.1	RSK 175	3-10-25	3-10-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*120*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0310W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**38.2**	**43.5**	44.2	44.2	86	98	75-125	13	25	
Ethane	**74.9**	**86.8**	83.2	83.2	90	104	75-125	15	25	
Ethene	**83.8**	**96.5**	77.7	77.7	108	124	75-125	14	25	
Acetylene	**128**	**161**	72.0	72.0	178	224	60-140	23	25	I,I
Surrogate:										
1-Butene					*101*	*127*	*50-150*			

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	3-11-25	3-11-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-029-04							
	ORIG DUP							
Total Organic Carbon	**1.81** **1.87**	NA	NA	NA	NA	3	11	
MATRIX SPIKE								
Laboratory ID:	03-029-04							
	MS	MS		MS				
Total Organic Carbon	**11.6**	10.0	1.81	98	85-120	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Total Organic Carbon	**10.1**	10.0	NA	101	79-120	NA	NA	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-050-01								
	ORIG	DUP							
Ammonia	**2.37**	**2.34**	NA	NA	NA	NA	1	15	
MATRIX SPIKE									
Laboratory ID:	03-050-01								
	MS		MS		MS				
Ammonia	**7.14**		5.00	2.37	95	75-111	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0308W1								
	SB		SB		SB				
Ammonia	**5.31**		5.00	NA	106	81-110	NA	NA	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325W2					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-025-01								
	ORIG	DUP							
Nitrate	**0.104**	**0.103**	NA	NA	NA	NA	1	22	
MATRIX SPIKE									
Laboratory ID:	03-025-01								
	MS		MS		MS				
Nitrate	**2.33**		2.00	0.104	111	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0325W2								
	SB		SB		SB				
Nitrate	**2.23**		2.00	NA	112	85-117	NA	NA	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0305W1					
Nitrite	**ND**	0.020	EPA 353.2	3-5-25	3-5-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-025-07							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	03-025-07							
	MS	MS		MS				
Nitrite	**0.265**	0.250	ND	106	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0305W1							
	SB	SB		SB				
Nitrite	**0.263**	0.250	NA	105	91-116	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0320W1					
Sulfate	**ND**	5.0	ASTM D516-11	3-20-25	3-20-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-025-03								
	ORIG	DUP							
Sulfate	**22.9**	**24.6**	NA	NA	NA	NA	7	11	
MATRIX SPIKE									
Laboratory ID:	03-025-03								
	MS		MS		MS				
Sulfate	**40.5**		20.0	22.9	88	69-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0320W1								
	SB		SB		SB				
Sulfate	**9.01**		10.0	NA	90	81-106	NA	NA	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0306W1					
Chloride	**ND**	2.0	SM 4500-Cl E	3-6-25	3-6-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-029-04								
	ORIG	DUP							
Chloride	**60.4**	**61.2**	NA	NA	NA	NA	1	21	
MATRIX SPIKE									
Laboratory ID:	03-029-04								
	MS		MS		MS				
Chloride	**158**		100.0	60.4	98	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0306W1								
	SB		SB		SB				
Chloride	**44.8**		50.0	NA	90	77-115	NA	NA	

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Date of Report: March 26, 2025
Samples Submitted: March 4, 2025
Laboratory Reference: 2503-026
Project: 4082-039-03 T22.03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0306WH2					
Iron	**ND**	50	EPA 6010D	3-6-25	3-6-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-309-07										
	ORIG	DUP									
Iron	**385**	**420**	NA	NA		NA		NA	9	20	
MATRIX SPIKES											
Laboratory ID:	02-309-07										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22200**	**21000**	20000	20000	385	**109**	**103**	75-125	5	20	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

March 10, 2025

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: OSE
Project Number: 4082-039-03 T22.03
COC Number: 03-026

David Baumeister:

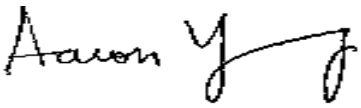
Enclosed please find the analytical data for your OSE project.

Your sample(s) were received on Wednesday, March 5, 2025 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.
Sincerely,



ElementStationManager For Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

Date Received: 03/05/25
Date Reported: 03/10/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A25C0076-01	FL358-MW13-250304	Water		03/04/2025	03/05/2025
A25C0076-02	FL358-MW15-250304	Water		03/04/2025	03/05/2025
A25C0076-03	FL358-MW20-250304	Water		03/04/2025	03/05/2025
A25C0076-04	FL358-MW30-250304	Water		03/04/2025	03/05/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
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Kirkland, WA
(425) 885-1664
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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/05/25
Date Reported: 03/10/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

AMTEST Identification Number: A25C0076-01
Client Identification: FL358-MW13-250304
Sampling Date: 03/04/25 10:40

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	3	mg/L		2	SM 5210B_2011	JM	03/05/2025

AMTEST Identification Number: A25C0076-02
Client Identification: FL358-MW15-250304
Sampling Date: 03/04/25 09:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	6	mg/L		2	SM 5210B_2011	JM	03/05/2025

AMTEST Identification Number: A25C0076-03
Client Identification: FL358-MW20-250304
Sampling Date: 03/04/25 09:15

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	9	mg/L		2	SM 5210B_2011	JM	03/05/2025

AMTEST Identification Number: A25C0076-04
Client Identification: FL358-MW30-250304
Sampling Date: 03/04/25 10:53

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	12	mg/L	S	2	SM 5210B_2011	JM	03/05/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

Date Received: 03/05/25
Date Reported: 03/10/25

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCC0151 - No Prep - WetChem										
Calibration Blank (BCC0151-CCB1)					Prepared & Analyzed: 03/05/25					
Biological Oxygen Demand (BOD)	ND	U		mg/L						
Duplicate (BCC0151-DUP2)		**Source: A25C0075-04**			Prepared & Analyzed: 03/05/25					
Biological Oxygen Demand (BOD)	3		2	mg/L		2			30	35.5

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ANALYSIS REPORT

Professional Analytical Services

Date Received: 03/05/25
Date Reported: 03/10/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

Notes and Definitions

Item	Definition
S	The sample did not meet the method specification of 2 ppm depletion.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

A25C0076

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 03-026

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03 T22.03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW13-250304	3/4/25	10:40	Water	1	BOD
02	FL358-MW15-250304	3/4/25	9:00	Water	1	BOD
03	FL358-MW20-250304	3/4/25	9:15	Water	1	BOD
04	FL358-MW30-250304	3/4/25	10:53	Water	1	BOD

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	3/4/25	5:10 PM	EDDs
Received by:	AmTest	3/4/25	5:10 pm	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

3.6°C

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03 T22.03
Project Name: FL358
Project Manager: Brittany Waite
Sampled by: JAK, DK, RM

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 03-026

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW13-250304	03/4/25	1040	W	11																		X		X	X	
2	FL358-MW15-250304	03/4/25	0900	W	11																		|		|	|	
3	FL358-MW20-250304	03/4/25	0915	W	11																		|		|	|	
4	FL358-MW30-250304	03/4/25	1033	W	11																		|		|	|	
5	FL358-TB2-250304	03/4/25	—	W	3																		|				
	FL358-	03/ /25		W																							
	FL358-	03/ /25		W																							
	FL358-	03/ /25		W																							
	FL358-	03/ /25		W																							
	FL358-	03/ /25		W																							

	Signature	Company	Date	Time
Relinquished	[signature]	GEI	3/4/25	1440
Received	[signature]	alpha	3/4/25	15:30
Relinquished	[signature]	alpha	3/4/25	15:40
Received	Nicholle Brown	OSE	3/4/25	1540
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 26, 2025

Brittany Waite
GeoEngineers, Inc.
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Re: Analytical Data for Project 4082-039-03 T22.03
Laboratory Reference No. 2503-051

Dear Brittany:

Enclosed are the analytical results and associated quality control data for samples submitted on March 5, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

Case Narrative

Samples were collected on March 4 and 5, 2025 and received by the laboratory on March 5, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW12-250304	03-051-01	Water	3-4-25	3-5-25	
FL358-MW16-250304	03-051-02	Water	3-4-25	3-5-25	
FL358-MW17-250304	03-051-03	Water	3-4-25	3-5-25	
FL358-MW26-250304	03-051-04	Water	3-4-25	3-5-25	
FL358-MW28-250304	03-051-05	Water	3-4-25	3-5-25	
FL358-DUP-250304	03-051-06	Water	3-4-25	3-5-25	
FL358-RB-250304	03-051-07	Water	3-4-25	3-5-25	
FL358-MW5A-250305	03-051-08	Water	3-5-25	3-5-25	
FL358-MW5B-250305	03-051-09	Water	3-5-25	3-5-25	
FL358-MW6-250305	03-051-10	Water	3-5-25	3-5-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-250304**					
Laboratory ID:	03-051-01					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*68-133*				
Toluene-d8	*108*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**FL358-MW16-250304**					
Laboratory ID:	03-051-02					
Vinyl Chloride	6.0	2.0	EPA 8260D	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	170	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	55	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	43	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*68-133*				
Toluene-d8	*109*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-MW17-250304**					
Laboratory ID:	03-051-03					
Vinyl Chloride (SIM)	0.68	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	3.2	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*117*	*68-133*				
Toluene-d8	*110*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW26-250304**					
Laboratory ID:	03-051-04					
Vinyl Chloride (SIM)	0.97	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*115*	*68-133*				
Toluene-d8	*109*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-MW28-250304**					
Laboratory ID:	03-051-05					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*115*	*68-133*				
Toluene-d8	*110*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Client ID:	**FL358-DUP-250304**					
Laboratory ID:	03-051-06					
Vinyl Chloride	6.2	2.0	EPA 8260D	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	170	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	56	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	43	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*68-133*				
Toluene-d8	*111*	*79-123*				
4-Bromofluorobenzene	*102*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-RB-250304**					
Laboratory ID:	03-051-07					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**FL358-MW5A-250305**					
Laboratory ID:	03-051-08					
Vinyl Chloride	3.0	2.0	EPA 8260D	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	50	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	68	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	87	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*116*	*68-133*				
Toluene-d8	*110*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**FL358-MW5B-250305**					
Laboratory ID:	03-051-09					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*115*	*68-133*				
Toluene-d8	*109*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

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Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-250305**					
Laboratory ID:	03-051-10					
Vinyl Chloride (SIM)	0.49	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	72	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	120	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	13	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*117*	*68-133*				
Toluene-d8	*110*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

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Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-250304**					
Laboratory ID:	03-051-01					
Methane	**640**	5.5	RSK 175	3-12-25	3-12-25	
Ethane	**ND**	0.56	RSK 175	3-12-25	3-12-25	
Ethene	**ND**	0.58	RSK 175	3-12-25	3-12-25	
Acetylene	**ND**	3.1	RSK 175	3-12-25	3-12-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*132*	*50-150*				
Client ID:	**FL358-MW16-250304**					
Laboratory ID:	03-051-02					
Methane	**340**	2.8	RSK 175	3-12-25	3-12-25	
Ethane	**ND**	0.56	RSK 175	3-12-25	3-12-25	
Ethene	**ND**	0.58	RSK 175	3-12-25	3-12-25	
Acetylene	**ND**	3.1	RSK 175	3-12-25	3-12-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*130*	*50-150*				
Client ID:	**FL358-MW17-250304**					
Laboratory ID:	03-051-03					
Methane	**580**	5.5	RSK 175	3-12-25	3-12-25	
Ethane	**ND**	0.56	RSK 175	3-12-25	3-12-25	
Ethene	**ND**	0.58	RSK 175	3-12-25	3-12-25	
Acetylene	**ND**	3.1	RSK 175	3-12-25	3-12-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*137*	*50-150*				
Client ID:	**FL358-MW26-250304**					
Laboratory ID:	03-051-04					
Methane	**830**	11	RSK 175	3-12-25	3-12-25	
Ethane	**ND**	0.56	RSK 175	3-12-25	3-12-25	
Ethene	**ND**	0.58	RSK 175	3-12-25	3-12-25	
Acetylene	**ND**	3.1	RSK 175	3-12-25	3-12-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*129*	*50-150*				

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Date of Report: March 26, 2025
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DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW28-250304**					
Laboratory ID:	03-051-05					
Methane	**860**	11	RSK 175	3-12-25	3-12-25	
Ethane	**ND**	0.56	RSK 175	3-12-25	3-12-25	
Ethene	**ND**	0.58	RSK 175	3-12-25	3-12-25	
Acetylene	**ND**	3.1	RSK 175	3-12-25	3-12-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*136*	*50-150*				
Client ID:	**FL358-DUP-250304**					
Laboratory ID:	03-051-06					
Methane	**330**	2.8	RSK 175	3-12-25	3-12-25	
Ethane	**ND**	0.56	RSK 175	3-12-25	3-12-25	
Ethene	**ND**	0.58	RSK 175	3-12-25	3-12-25	
Acetylene	**ND**	3.1	RSK 175	3-12-25	3-12-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*136*	*50-150*				
Client ID:	**FL358-MW5A-250305**					
Laboratory ID:	03-051-08					
Methane	**610**	5.5	RSK 175	3-12-25	3-12-25	
Ethane	**ND**	0.56	RSK 175	3-12-25	3-12-25	
Ethene	**ND**	0.58	RSK 175	3-12-25	3-12-25	
Acetylene	**ND**	3.1	RSK 175	3-12-25	3-12-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*135*	*50-150*				
Client ID:	**FL358-MW5B-250305**					
Laboratory ID:	03-051-09					
Methane	**58**	0.55	RSK 175	3-12-25	3-12-25	
Ethane	**ND**	0.56	RSK 175	3-12-25	3-12-25	
Ethene	**ND**	0.58	RSK 175	3-12-25	3-12-25	
Acetylene	**ND**	3.1	RSK 175	3-12-25	3-12-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*139*	*50-150*				

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Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-250305**					
Laboratory ID:	03-051-10					
Methane	**230**	1.7	RSK 175	3-12-25	3-12-25	
Ethane	**ND**	0.56	RSK 175	3-12-25	3-12-25	
Ethene	**ND**	0.58	RSK 175	3-12-25	3-12-25	
Acetylene	**ND**	3.1	RSK 175	3-12-25	3-12-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*131*	*50-150*				

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Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-250304**					
Laboratory ID:	03-051-01					
Total Organic Carbon	**25**	1.0	SM 5310B	3-11-25	3-11-25	
Client ID:	**FL358-MW16-250304**					
Laboratory ID:	03-051-02					
Total Organic Carbon	**15**	1.0	SM 5310B	3-11-25	3-11-25	
Client ID:	**FL358-MW17-250304**					
Laboratory ID:	03-051-03					
Total Organic Carbon	**19**	1.0	SM 5310B	3-11-25	3-11-25	
Client ID:	**FL358-MW26-250304**					
Laboratory ID:	03-051-04					
Total Organic Carbon	**16**	1.0	SM 5310B	3-11-25	3-11-25	
Client ID:	**FL358-MW28-250304**					
Laboratory ID:	03-051-05					
Total Organic Carbon	**36**	1.0	SM 5310B	3-11-25	3-11-25	
Client ID:	**FL358-DUP-250304**					
Laboratory ID:	03-051-06					
Total Organic Carbon	**15**	1.0	SM 5310B	3-11-25	3-11-25	
Client ID:	**FL358-MW5A-250305**					
Laboratory ID:	03-051-08					
Total Organic Carbon	**8.8**	1.0	SM 5310B	3-11-25	3-11-25	
Client ID:	**FL358-MW5B-250305**					
Laboratory ID:	03-051-09					
Total Organic Carbon	**6.8**	1.0	SM 5310B	3-11-25	3-11-25	
Client ID:	**FL358-MW6-250305**					
Laboratory ID:	03-051-10					
Total Organic Carbon	**8.4**	1.0	SM 5310B	3-11-25	3-11-25	

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Laboratory Reference: 2503-051
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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-250304**					
Laboratory ID:	03-051-01					
Ammonia	**2.7**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW16-250304**					
Laboratory ID:	03-051-02					
Ammonia	**0.56**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW17-250304**					
Laboratory ID:	03-051-03					
Ammonia	**0.28**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW26-250304**					
Laboratory ID:	03-051-04					
Ammonia	**1.6**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW28-250304**					
Laboratory ID:	03-051-05					
Ammonia	**0.26**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-DUP-250304**					
Laboratory ID:	03-051-06					
Ammonia	**0.58**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW5A-250305**					
Laboratory ID:	03-051-08					
Ammonia	**0.11**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW5B-250305**					
Laboratory ID:	03-051-09					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	
Client ID:	**FL358-MW6-250305**					
Laboratory ID:	03-051-10					
Ammonia	**0.086**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	

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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-250304**					
Laboratory ID:	03-051-01					
Nitrate	**0.15**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW16-250304**					
Laboratory ID:	03-051-02					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW17-250304**					
Laboratory ID:	03-051-03					
Nitrate	**0.11**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW26-250304**					
Laboratory ID:	03-051-04					
Nitrate	**1.1**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW28-250304**					
Laboratory ID:	03-051-05					
Nitrate	**0.78**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-DUP-250304**					
Laboratory ID:	03-051-06					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW5A-250305**					
Laboratory ID:	03-051-08					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW5B-250305**					
Laboratory ID:	03-051-09					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	
Client ID:	**FL358-MW6-250305**					
Laboratory ID:	03-051-10					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	

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NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-250304**					
Laboratory ID:	03-051-01					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-MW16-250304**					
Laboratory ID:	03-051-02					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-MW17-250304**					
Laboratory ID:	03-051-03					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-MW26-250304**					
Laboratory ID:	03-051-04					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-MW28-250304**					
Laboratory ID:	03-051-05					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-DUP-250304**					
Laboratory ID:	03-051-06					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-MW5A-250305**					
Laboratory ID:	03-051-08					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-MW5B-250305**					
Laboratory ID:	03-051-09					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	
Client ID:	**FL358-MW6-250305**					
Laboratory ID:	03-051-10					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	

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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-250304**					
Laboratory ID:	03-051-01					
Sulfate	**ND**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-MW16-250304**					
Laboratory ID:	03-051-02					
Sulfate	**6.6**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-MW17-250304**					
Laboratory ID:	03-051-03					
Sulfate	**ND**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-MW26-250304**					
Laboratory ID:	03-051-04					
Sulfate	**19**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-MW28-250304**					
Laboratory ID:	03-051-05					
Sulfate	**23**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-DUP-250304**					
Laboratory ID:	03-051-06					
Sulfate	**6.4**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-MW5A-250305**					
Laboratory ID:	03-051-08					
Sulfate	**7.4**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-MW5B-250305**					
Laboratory ID:	03-051-09					
Sulfate	**5.8**	5.0	ASTM D516-11	3-12-25	3-12-25	
Client ID:	**FL358-MW6-250305**					
Laboratory ID:	03-051-10					
Sulfate	**ND**	5.0	ASTM D516-11	3-12-25	3-12-25	

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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-250304**					
Laboratory ID:	03-051-01					
Chloride	**47**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW16-250304**					
Laboratory ID:	03-051-02					
Chloride	**40**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW17-250304**					
Laboratory ID:	03-051-03					
Chloride	**37**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW26-250304**					
Laboratory ID:	03-051-04					
Chloride	**26**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW28-250304**					
Laboratory ID:	03-051-05					
Chloride	**30**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-DUP-250304**					
Laboratory ID:	03-051-06					
Chloride	**41**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW5A-250305**					
Laboratory ID:	03-051-08					
Chloride	**31**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW5B-250305**					
Laboratory ID:	03-051-09					
Chloride	**29**	2.0	SM 4500-Cl E	3-6-25	3-6-25	
Client ID:	**FL358-MW6-250305**					
Laboratory ID:	03-051-10					
Chloride	**31**	2.0	SM 4500-Cl E	3-6-25	3-6-25	

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Date of Report: March 26, 2025
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Laboratory Reference: 2503-051
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TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW12-250304**					
Laboratory ID:	03-051-01					
Iron	**53000**	500	EPA 6010D	3-10-25	3-11-25	
Client ID:	**FL358-MW16-250304**					
Laboratory ID:	03-051-02					
Iron	**7000**	50	EPA 6010D	3-10-25	3-10-25	
Client ID:	**FL358-MW17-250304**					
Laboratory ID:	03-051-03					
Iron	**38000**	500	EPA 6010D	3-10-25	3-11-25	
Client ID:	**FL358-MW26-250304**					
Laboratory ID:	03-051-04					
Iron	**32000**	500	EPA 6010D	3-10-25	3-11-25	
Client ID:	**FL358-MW28-250304**					
Laboratory ID:	03-051-05					
Iron	**22000**	50	EPA 6010D	3-10-25	3-10-25	
Client ID:	**FL358-DUP-250304**					
Laboratory ID:	03-051-06					
Iron	**7100**	50	EPA 6010D	3-10-25	3-10-25	
Client ID:	**FL358-MW5A-250305**					
Laboratory ID:	03-051-08					
Iron	**4200**	50	EPA 6010D	3-10-25	3-10-25	
Client ID:	**FL358-MW5B-250305**					
Laboratory ID:	03-051-09					
Iron	**250**	50	EPA 6010D	3-10-25	3-10-25	

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Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
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TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW6-250305**					
Laboratory ID:	03-051-10					
Iron	**1500**	50	EPA 6010D	3-10-25	3-10-25	

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VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0307W1					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	3-7-25	3-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Trichloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Tetrachloroethene	ND	2.0	EPA 8260D	3-7-25	3-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0307W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.5**	**10.2**	10.0	10.0	105	102	67-130	3	15	
1,1-Dichloroethene	**10.9**	**10.4**	10.0	10.0	109	104	74-125	5	15	
(trans) 1,2-Dichloroethene	**11.0**	**10.6**	10.0	10.0	110	106	77-125	4	15	
(cis) 1,2-Dichloroethene	**11.4**	**10.8**	10.0	10.0	114	108	78-130	5	15	
Trichloroethene	**10.7**	**10.1**	10.0	10.0	107	101	80-126	6	15	
Tetrachloroethene	**10.0**	**9.46**	10.0	10.0	100	95	80-125	6	15	
Surrogate:										
Dibromofluoromethane					*112*	*113*	*68-133*			
Toluene-d8					*109*	*109*	*79-123*			
4-Bromofluorobenzene					*101*	*101*	*78-117*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0312W1					
Methane	**ND**	0.55	RSK 175	3-12-25	3-12-25	
Ethane	**ND**	0.56	RSK 175	3-12-25	3-12-25	
Ethene	**ND**	0.58	RSK 175	3-12-25	3-12-25	
Acetylene	**ND**	3.1	RSK 175	3-12-25	3-12-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*130*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0312W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**39.8**	**37.4**	44.2	44.2	90	85	75-125	6	25	
Ethane	**77.1**	**71.6**	83.2	83.2	93	86	75-125	7	25	
Ethene	**82.9**	**76.4**	77.7	77.7	107	98	75-125	8	25	
Acetylene	**87.0**	**72.1**	72.0	72.0	121	100	60-140	19	25	
Surrogate:										
1-Butene					*93*	*82*	*50-150*			

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Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	3-11-25	3-11-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-029-04							
	ORIG DUP							
Total Organic Carbon	**1.81** **1.87**	NA	NA	NA	NA	3	11	
MATRIX SPIKE								
Laboratory ID:	03-029-04							
	MS	MS		MS				
Total Organic Carbon	**11.6**	10.0	1.81	98	85-120	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Total Organic Carbon	**10.1**	10.0	NA	101	79-120	NA	NA	

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Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	3-8-25	3-8-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-050-01								
	ORIG	DUP							
Ammonia	**2.37**	**2.34**	NA	NA	NA	NA	1	15	
MATRIX SPIKE									
Laboratory ID:	03-050-01								
	MS		MS		MS				
Ammonia	**7.14**		5.00	2.37	95	75-111	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0308W1								
	SB		SB		SB				
Ammonia	**5.31**		5.00	NA	106	81-110	NA	NA	

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Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325W1					
Nitrate	**ND**	0.050	EPA 353.2	3-25-25	3-25-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-029-04								
	ORIG	DUP							
Nitrate	**24.8**	**24.3**	NA	NA	NA	NA	2	22	
MATRIX SPIKE									
Laboratory ID:	03-029-04								
	MS		MS		MS				
Nitrate	**69.3**		40.00	24.8	111	86-119	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0325W1								
	SB		SB		SB				
Nitrate	**2.25**		2.00	NA	113	85-117	NA	NA	

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Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0306W1					
Nitrite	**ND**	0.020	EPA 353.2	3-6-25	3-6-25	

Matrix: Water
Units: mg/L-N

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-050-02							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	03-050-02							
	MS	MS		MS				
Nitrite	**0.263**	0.250	ND	105	85-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0306W1							
	SB	SB		SB				
Nitrite	**0.261**	0.250	NA	104	91-116	NA	NA	

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Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0312W1					
Sulfate	**ND**	5.0	ASTM D516-11	3-12-25	3-12-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-050-02								
	ORIG	DUP							
Sulfate	**6.99**	**7.06**	NA	NA	NA	NA	1	11	
MATRIX SPIKE									
Laboratory ID:	03-050-02								
	MS		MS		MS				
Sulfate	**17.7**		10.0	6.99	107	69-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0312W1								
	SB		SB		SB				
Sulfate	**9.91**		10.0	NA	99	81-106	NA	NA	

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Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0306W1					
Chloride	**ND**	2.0	SM 4500-Cl E	3-6-25	3-6-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	03-050-02								
	ORIG	DUP							
Chloride	**30.2**	**30.7**	NA	NA	NA	NA	2	21	
MATRIX SPIKE									
Laboratory ID:	03-050-02								
	MS		MS		MS				
Chloride	**80.9**		50.0	30.2	101	81-115	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0306								
	SB		SB		SB				
Chloride	**47.7**		50.0	NA	95	77-115	NA	NA	

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Date of Report: March 26, 2025
Samples Submitted: March 5, 2025
Laboratory Reference: 2503-051
Project: 4082-039-03 T22.03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310WH1					
Iron	**ND**	50	EPA 6010D	3-10-25	3-10-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-309-02										
	ORIG	DUP									
Iron	**626**	**594**	NA	NA		NA		NA	5	20	
MATRIX SPIKES											
Laboratory ID:	02-309-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**23400**	**20900**	20000	20000	626	**114**	**101**	75-125	11	20	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

March 18, 2025

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: OSE
Project Number: 4082-039-03 T22.03
COC Number: 03-051

David Baumeister:

Enclosed please find the analytical data for your OSE project.

Your sample(s) were received on Thursday, March 6, 2025 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.
Sincerely,

Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

Date Received: 03/06/25
Date Reported: 03/18/25

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A25C0119-01	FL358-MW12-250304	Water		03/04/2025	03/06/2025
A25C0119-02	FL358-MW16-250304	Water		03/04/2025	03/06/2025
A25C0119-03	FL358-MW17-250304	Water		03/04/2025	03/06/2025
A25C0119-04	FL358-MW26-250304	Water		03/04/2025	03/06/2025
A25C0119-05	FL358-MW28-250304	Water		03/04/2025	03/06/2025
A25C0119-06	FL358-DUP-250305	Water		03/04/2025	03/06/2025
A25C0119-07	FL358-MW5A-250305	Water		03/05/2025	03/06/2025
A25C0119-08	FL358-MW5B-250305	Water		03/05/2025	03/06/2025
A25C0119-09	FL358-MW6-250305	Water		03/05/2025	03/06/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
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Kirkland, WA
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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/06/25
Date Reported: 03/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

AMTEST Identification Number: A25C0119-01
Client Identification: FL358-MW12-250304
Sampling Date: 03/04/25 14:45

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	11	mg/L	S	2	SM 5210B_2011	MK	03/06/2025

AMTEST Identification Number: A25C0119-02
Client Identification: FL358-MW16-250304
Sampling Date: 03/04/25 13:30

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	2	mg/L	S	2	SM 5210B_2011	MK	03/06/2025

AMTEST Identification Number: A25C0119-03
Client Identification: FL358-MW17-250304
Sampling Date: 03/04/25 11:55

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	5	mg/L	S	2	SM 5210B_2011	MK	03/06/2025

AMTEST Identification Number: A25C0119-04
Client Identification: FL358-MW26-250304
Sampling Date: 03/04/25 14:31

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	12	mg/L		2	SM 5210B_2011	MK	03/06/2025

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/06/25
Date Reported: 03/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

AMTEST Identification Number: A25C0119-05
Client Identification: FL358-MW28-250304
Sampling Date: 03/04/25 12:54

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	4	mg/L	S	2	SM 5210B_2011	MK	03/06/2025

AMTEST Identification Number: A25C0119-06
Client Identification: FL358-DUP-250305
Sampling Date: 03/04/25 16:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	2	mg/L	S	2	SM 5210B_2011	MK	03/06/2025

AMTEST Identification Number: A25C0119-07
Client Identification: FL358-MW5A-250305
Sampling Date: 03/05/25 12:15

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	6	mg/L		2	SM 5210B_2011	MK	03/06/2025

AMTEST Identification Number: A25C0119-08
Client Identification: FL358-MW5B-250305
Sampling Date: 03/05/25 11:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	2	mg/L		2	SM 5210B_2011	MK	03/06/2025

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/06/25
Date Reported: 03/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

AMTEST Identification Number: A25C0119-09
Client Identification: FL358-MW6-250305
Sampling Date: 03/05/25 13:45

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	4	mg/L		2	SM 5210B_2011	MK	03/06/2025

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

Date Received: 03/06/25
Date Reported: 03/18/25

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCC0179 - No Prep - WetChem										
Calibration Blank (BCC0179-CCB1)					Prepared & Analyzed: 03/06/25					
Biological Oxygen Demand (BOD)	ND	U		mg/L						
Duplicate (BCC0179-DUP2)		**Source: A25C0120-02**			Prepared & Analyzed: 03/06/25					
Biological Oxygen Demand (BOD)	2		2	mg/L		3			11	35.5

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 03/06/25
Date Reported: 03/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03 T22.03

Notes and Definitions

Item	Definition
S	The sample did not meet the method specification of 2 ppm depletion.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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A25C0119

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 03-051

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other:

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03 T22.03

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW12-250304	3/4/25	14:45	W	1	BOD SM521B
02	FL358-MW16-250304	3/4/25	13:30	W	1	BOD SM521B
03	FL358-MW17-250304	3/4/25	11:55	W	1	BOD SM521B
04	FL358-MW26-250304	3/4/25	14:31	W	1	BOD SM521B
05	FL358-MW28-250304	3/4/25	12:54	W	1	BOD SM521B
06	FL358-GW DUP-250304	3/4/25	16:00	W	1	BOD SM521B
07	FL358-MW5A-250305	3/5/25	12:15	W	1	BOD SM521B
08	FL358-MW5B-250305	3/5/25	11:00	W	1	BOD SM521B
09	FL358-MW6-250305	3/5/25	13:45	W	1	BOD SM521B

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	3/6/25	11:41	6.3°
Received by: SF	AmTest	3/6/25	1141	
Relinquished by:				**EDDs**
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03 T22.03
Project Name: FL358
Project Manager: Brittany Waite
Sampled by: JAK, DK, RM

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 03-051

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358- MW12-250304	03/4/25	1445	W	11																		X		X	X	
2	FL358- MW16-250304	03/4/25	1330	W																							
3	FL358- MW17-250304	03/4/25	1155	W																							
4	FL358- MW26-250304	03/4/25	1431	W																							
5	FL358- MW25-250304	03/4/25	1254	W																							
6	FL358- ~~EQ~~ DUP-250304 (NB)	03/4/25	1300	W																							
7	FL358- RB-250304	03/4/25	1510	W	3																				1		
8	FL358- MW5A-250305	03/5/25	1215	W	11																				X	X	
9	FL358- MW5B-250305	03/5/25	1100	W	11																						
10	FL358- MW6-250305	03/5/25	1345	W	11																						

	Signature	Company	Date	Time
Relinquished		GE	3/5/25	1635
Received		GE	3/5/25	1635
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 19, 2025

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2506-133

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on June 10, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

Case Narrative

Samples were collected on June 9, 2025 and received by the laboratory on June 10, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Dissolved Gases by RSK-175 Analysis

Acetylene recovery was above laboratory control limits in the SB and SBD samples. Because this shows a high bias and no Acetylene was detected in other samples, no further action was required.

The surrogate recovery for samples 2,3,7 and 9 were outside laboratory acceptance criteria for expected dilution values. The samples were reanalyzed with new equipment for accurate volume dispersal. Values were checked for accuracy.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW30-250609	06-133-01	Water	6-9-25	6-10-25	
FL358-MW29-250609	06-133-02	Water	6-9-25	6-10-25	
FL358-MW28-250609	06-133-03	Water	6-9-25	6-10-25	
FL358-MW25-250609	06-133-04	Water	6-9-25	6-10-25	
FL358-MW24-250609	06-133-05	Water	6-9-25	6-10-25	
FL358-MW23-250609	06-133-06	Water	6-9-25	6-10-25	
FL358-MW22-250609	06-133-07	Water	6-9-25	6-10-25	
FL358-MW13-250609	06-133-08	Water	6-9-25	6-10-25	
FL358-MW10-250609	06-133-09	Water	6-9-25	6-10-25	
FL358-RB1-250609	06-133-10	Water	6-9-25	6-10-25	
FL358-TB1-250609	06-133-11	Water	---	6-10-25	

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Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW30-250609**					
Laboratory ID:	06-133-01					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*103*	*78-117*				
Client ID:	**FL358-MW29-250609**					
Laboratory ID:	06-133-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*103*	*78-117*				
Client ID:	**FL358-MW28-250609**					
Laboratory ID:	06-133-03					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*103*	*78-117*				

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Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW25-250609**					
Laboratory ID:	06-133-04					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Client ID:	**FL358-MW24-250609**					
Laboratory ID:	06-133-05					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*103*	*79-123*				
4-Bromofluorobenzene	*103*	*78-117*				
Client ID:	**FL358-MW23-250609**					
Laboratory ID:	06-133-06					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*102*	*78-117*				

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Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW22-250609**					
Laboratory ID:	06-133-07					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-16-25	6-16-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*102*	*78-117*				
Client ID:	**FL358-MW13-250609**					
Laboratory ID:	06-133-08					
Vinyl Chloride (SIM)	0.21	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	3.7	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	1.8	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	4.7	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*103*	*78-117*				
Client ID:	**FL358-MW10-250609**					
Laboratory ID:	06-133-09					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*103*	*78-117*				

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Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-RB1-250609**					
Laboratory ID:	06-133-10					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*102*	*78-117*				
Client ID:	**FL358-TB1-250609**					
Laboratory ID:	06-133-11					
Vinyl Chloride	ND	0.20	EPA 8260D	6-16-25	6-16-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-16-25	6-16-25	
Tetrachloroethene	ND	0.20	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*102*	*78-117*				

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Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW30-250609**					
Laboratory ID:	06-133-01					
Methane	**1500**	11	RSK 175	6-13-25	6-13-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*113*	*50-150*				
Client ID:	**FL358-MW29-250609**					
Laboratory ID:	06-133-02					
Methane	**1200**	8.3	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*125*	*50-150*				
Client ID:	**FL358-MW28-250609**					
Laboratory ID:	06-133-03					
Methane	**1900**	14	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*120*	*50-150*				

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Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW25-250609**					
Laboratory ID:	06-133-04					
Methane	**170**	2.8	RSK 175	6-13-25	6-13-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*122*	*50-150*				
Client ID:	**FL358-MW24-250609**					
Laboratory ID:	06-133-05					
Methane	**34**	0.55	RSK 175	6-13-25	6-13-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*124*	*50-150*				
Client ID:	**FL358-MW23-250609**					
Laboratory ID:	06-133-06					
Methane	**140**	2.8	RSK 175	6-13-25	6-13-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*125*	*50-150*				

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Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW22-250609**					
Laboratory ID:	06-133-07					
Methane	**2300**	17	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*91*	*50-150*				
Client ID:	**FL358-MW13-250609**					
Laboratory ID:	06-133-08					
Methane	**76**	0.55	RSK 175	6-13-25	6-13-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*116*	*50-150*				
Client ID:	**FL358-MW10-250609**					
Laboratory ID:	06-133-09					
Methane	**1400**	11	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*116*	*50-150*				

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Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW30-250609**					
Laboratory ID:	06-133-01					
Total Organic Carbon	**47**	1.0	SM 5310B	6-12-25	6-12-25	
Client ID:	**FL358-MW29-250609**					
Laboratory ID:	06-133-02					
Total Organic Carbon	**18**	1.0	SM 5310B	6-12-25	6-12-25	
Client ID:	**FL358-MW28-250609**					
Laboratory ID:	06-133-03					
Total Organic Carbon	**44**	1.0	SM 5310B	6-12-25	6-12-25	
Client ID:	**FL358-MW25-250609**					
Laboratory ID:	06-133-04					
Total Organic Carbon	**2.3**	1.0	SM 5310B	6-12-25	6-12-25	
Client ID:	**FL358-MW24-250609**					
Laboratory ID:	06-133-05					
Total Organic Carbon	**5.8**	1.0	SM 5310B	6-12-25	6-12-25	
Client ID:	**FL358-MW23-250609**					
Laboratory ID:	06-133-06					
Total Organic Carbon	**5.0**	1.0	SM 5310B	6-12-25	6-12-25	
Client ID:	**FL358-MW22-250609**					
Laboratory ID:	06-133-07					
Total Organic Carbon	**54**	1.0	SM 5310B	6-12-25	6-12-25	
Client ID:	**FL358-MW13-250609**					
Laboratory ID:	06-133-08					
Total Organic Carbon	**10**	1.0	SM 5310B	6-12-25	6-12-25	
Client ID:	**FL358-MW10-250609**					
Laboratory ID:	06-133-09					
Total Organic Carbon	**15**	1.0	SM 5310B	6-12-25	6-12-25	

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Date of Report: June 19, 2025
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Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW30-250609**					
Laboratory ID:	06-133-01					
Ammonia	**2.7**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW29-250609**					
Laboratory ID:	06-133-02					
Ammonia	**0.69**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW28-250609**					
Laboratory ID:	06-133-03					
Ammonia	**0.53**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW25-250609**					
Laboratory ID:	06-133-04					
Ammonia	**ND**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW24-250609**					
Laboratory ID:	06-133-05					
Ammonia	**0.091**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW23-250609**					
Laboratory ID:	06-133-06					
Ammonia	**0.073**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW22-250609**					
Laboratory ID:	06-133-07					
Ammonia	**8.1**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW13-250609**					
Laboratory ID:	06-133-08					
Ammonia	**0.18**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW10-250609**					
Laboratory ID:	06-133-09					
Ammonia	**1.1**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	

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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW30-250609**					
Laboratory ID:	06-133-01					
Nitrate	**0.16**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW29-250609**					
Laboratory ID:	06-133-02					
Nitrate	**0.20**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW28-250609**					
Laboratory ID:	06-133-03					
Nitrate	**0.12**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW25-250609**					
Laboratory ID:	06-133-04					
Nitrate	**0.23**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW24-250609**					
Laboratory ID:	06-133-05					
Nitrate	**ND**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW23-250609**					
Laboratory ID:	06-133-06					
Nitrate	**ND**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW22-250609**					
Laboratory ID:	06-133-07					
Nitrate	**0.21**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW13-250609**					
Laboratory ID:	06-133-08					
Nitrate	**ND**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW10-250609**					
Laboratory ID:	06-133-09					
Nitrate	**0.082**	0.050	EPA 353.2	6-11-25	6-11-25	

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Date of Report: June 19, 2025
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Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW30-250609**					
Laboratory ID:	06-133-01					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW29-250609**					
Laboratory ID:	06-133-02					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW28-250609**					
Laboratory ID:	06-133-03					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW25-250609**					
Laboratory ID:	06-133-04					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW24-250609**					
Laboratory ID:	06-133-05					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW23-250609**					
Laboratory ID:	06-133-06					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW22-250609**					
Laboratory ID:	06-133-07					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW13-250609**					
Laboratory ID:	06-133-08					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW10-250609**					
Laboratory ID:	06-133-09					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	

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SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW30-250609**					
Laboratory ID:	06-133-01					
Sulfate	**ND**	5.0	ASTM D516-16	6-11-25	6-11-25	
Client ID:	**FL358-MW29-250609**					
Laboratory ID:	06-133-02					
Sulfate	**9.6**	5.0	ASTM D516-16	6-11-25	6-11-25	
Client ID:	**FL358-MW28-250609**					
Laboratory ID:	06-133-03					
Sulfate	**ND**	5.0	ASTM D516-16	6-11-25	6-11-25	
Client ID:	**FL358-MW25-250609**					
Laboratory ID:	06-133-04					
Sulfate	**35**	10	ASTM D516-16	6-11-25	6-11-25	
Client ID:	**FL358-MW24-250609**					
Laboratory ID:	06-133-05					
Sulfate	**64**	50	ASTM D516-16	6-11-25	6-11-25	
Client ID:	**FL358-MW23-250609**					
Laboratory ID:	06-133-06					
Sulfate	**23**	10	ASTM D516-16	6-11-25	6-11-25	
Client ID:	**FL358-MW22-250609**					
Laboratory ID:	06-133-07					
Sulfate	**ND**	5.0	ASTM D516-16	6-11-25	6-11-25	
Client ID:	**FL358-MW13-250609**					
Laboratory ID:	06-133-08					
Sulfate	**5.7**	5.0	ASTM D516-16	6-11-25	6-11-25	
Client ID:	**FL358-MW10-250609**					
Laboratory ID:	06-133-09					
Sulfate	**28**	10	ASTM D516-16	6-11-25	6-11-25	

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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW30-250609**					
Laboratory ID:	06-133-01					
Chloride	**14**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW29-250609**					
Laboratory ID:	06-133-02					
Chloride	**84**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW28-250609**					
Laboratory ID:	06-133-03					
Chloride	**33**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW25-250609**					
Laboratory ID:	06-133-04					
Chloride	**32**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW24-250609**					
Laboratory ID:	06-133-05					
Chloride	**70**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW23-250609**					
Laboratory ID:	06-133-06					
Chloride	**65**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW22-250609**					
Laboratory ID:	06-133-07					
Chloride	**18**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW13-250609**					
Laboratory ID:	06-133-08					
Chloride	**47**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW10-250609**					
Laboratory ID:	06-133-09					
Chloride	**46**	2.0	SM 4500-Cl E	6-13-25	6-13-25	

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TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW30-250609**					
Laboratory ID:	06-133-01					
Iron	**120000**	500	EPA 6010D	6-13-25	6-18-25	
Client ID:	**FL358-MW29-250609**					
Laboratory ID:	06-133-02					
Iron	**79000**	500	EPA 6010D	6-13-25	6-18-25	
Client ID:	**FL358-MW28-250609**					
Laboratory ID:	06-133-03					
Iron	**40000**	500	EPA 6010D	6-13-25	6-18-25	
Client ID:	**FL358-MW25-250609**					
Laboratory ID:	06-133-04					
Iron	**2300**	50	EPA 6010D	6-13-25	6-13-25	
Client ID:	**FL358-MW24-250609**					
Laboratory ID:	06-133-05					
Iron	**370**	50	EPA 6010D	6-13-25	6-13-25	
Client ID:	**FL358-MW23-250609**					
Laboratory ID:	06-133-06					
Iron	**1800**	50	EPA 6010D	6-13-25	6-13-25	
Client ID:	**FL358-MW22-250609**					
Laboratory ID:	06-133-07					
Iron	**110000**	500	EPA 6010D	6-13-25	6-18-25	
Client ID:	**FL358-MW13-250609**					
Laboratory ID:	06-133-08					
Iron	**4600**	50	EPA 6010D	6-13-25	6-13-25	

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TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW10-250609**					
Laboratory ID:	06-133-09					
Iron	**57000**	500	EPA 6010D	6-13-25	6-18-25	

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VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0616W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	0.10	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	0.10	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	0.10	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.020	EPA 8260D	6-16-25	6-16-25	
Tetrachloroethene	ND	0.10	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Laboratory ID:	MB0617W2					
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*89*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0616W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**8.14**	**8.32**	10.0	10.0	81	83	67-131	2	16	
1,1-Dichloroethene	**8.93**	**9.13**	10.0	10.0	89	91	77-125	2	15	
(trans) 1,2-Dichloroethene	**8.84**	**9.08**	10.0	10.0	88	91	76-126	3	15	
(cis) 1,2-Dichloroethene	**8.81**	**9.12**	10.0	10.0	88	91	77-129	3	15	
Trichloroethene	**10.1**	**10.4**	10.0	10.0	101	104	80-130	3	15	
Tetrachloroethene	**9.53**	**9.74**	10.0	10.0	95	97	80-130	2	20	
Surrogate:										
Dibromofluoromethane					*88*	*90*	*68-133*			
Toluene-d8					*100*	*100*	*79-123*			
4-Bromofluorobenzene					*102*	*102*	*78-117*			
Laboratory ID:	SB0617W2									
	SB	SBD	SB	SBD	SB	SBD				
Trichloroethene	**9.72**	**9.37**	10.0	10.0	97	94	80-130	4	15	
Surrogate:										
Dibromofluoromethane					*92*	*89*	*68-133*			
Toluene-d8					*94*	*95*	*79-123*			
4-Bromofluorobenzene					*92*	*92*	*78-117*			

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DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0613W1					
Methane	**ND**	0.55	RSK 175	6-13-25	6-13-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*121*	*50-150*				
Laboratory ID:	MB0617W1					
Methane	**ND**	0.55	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*96*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0613W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**39.1**	**38.2**	44.2	44.2	89	86	75-125	2	25	
Ethane	**75.9**	**72.5**	83.2	83.2	91	87	75-125	5	25	
Ethene	**84.9**	**81.9**	77.7	77.7	109	105	75-125	4	25	
Acetylene	**122**	**127**	72.0	72.0	169	176	60-140	4	25	I,I
Surrogate:										
1-Butene					*97*	*88*	*50-150*			
Laboratory ID:	SB0617W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**34.0**	**34.8**	44.2	44.2	77	79	75-125	2	25	
Ethane	**65.2**	**67.4**	83.2	83.2	78	81	75-125	3	25	
Ethene	**69.5**	**73.1**	77.7	77.7	89	94	75-125	5	25	
Acetylene	**74.2**	**92.4**	72.0	72.0	103	128	60-140	22	25	
Surrogate:										
1-Butene					*82*	*87*	*50-150*			

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TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0612W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	6-12-25	6-12-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-133-01								
	ORIG	DUP							
Total Organic Carbon	**47.0**	**47.3**	NA	NA	NA	NA	1	10	
MATRIX SPIKE									
Laboratory ID:	06-133-01								
	MS		MS		MS				
Total Organic Carbon	**58.1**		10.0	47.0	111	70-136	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0612W1								
	SB		SB		SB				
Total Organic Carbon	**10.2**		10.0	NA	102	83-130	NA	NA	

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Date of Report: June 19, 2025
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AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0617W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-133-02								
	ORIG	DUP							
Ammonia	**0.690**	**0.724**	NA	NA	NA	NA	5	21	
MATRIX SPIKE									
Laboratory ID:	06-133-02								
	MS		MS		MS				
Ammonia	**5.04**		5.00	0.690	87	76-114	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0617W1								
	SB		SB		SB				
Ammonia	**4.90**		5.00	NA	98	81-110	NA	NA	

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NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0611W1					
Nitrate	**ND**	0.050	EPA 353.2	6-11-25	6-11-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-133-01								
	ORIG	DUP							
Nitrate	**0.158**	**0.144**	NA	NA	NA	NA	9	23	
MATRIX SPIKE									
Laboratory ID:	06-133-01								
	MS		MS		MS				
Nitrate	**2.47**		2.00	0.158	116	74-130	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0611W1								
	SB		SB		SB				
Nitrate	**2.38**		2.00	NA	119	82-128	NA	NA	

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Laboratory Reference: 2506-133
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0611W1					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-133-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	06-133-01							
	MS	MS		MS				
Nitrite	**0.263**	0.250	ND	105	71-129	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0611W1							
	SB	SB		SB				
Nitrite	**0.261**	0.250	NA	104	79-123	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

SULFATE
ASTM D516-16
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0611W1					
Sulfate	**ND**	5.0	ASTM D516-16	6-11-25	6-11-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-133-05								
	ORIG	DUP							
Sulfate	**63.9**	**64.7**	NA	NA	NA	NA	1	11	
MATRIX SPIKE									
Laboratory ID:	06-133-05								
	MS		MS		MS				
Sulfate	**183**		100	63.9	119	70-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0611W1								
	SB		SB		SB				
Sulfate	**9.00**		10.0	NA	90	83-113	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0613W1					
Chloride	**ND**	2.0	SM 4500-Cl E	6-13-25	6-13-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-133-01								
	ORIG	DUP							
Chloride	**14.3**	**14.0**	NA	NA	NA	NA	2	15	
MATRIX SPIKE									
Laboratory ID:	06-133-01								
	MS		MS		MS				
Chloride	**69.1**		50.0	14.3	110	79-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0613W1								
	SB		SB		SB				
Chloride	**58.8**		50.0	NA	118	82-123	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 19, 2025
Samples Submitted: June 10, 2025
Laboratory Reference: 2506-133
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0613WH1					
Iron	**ND**	50	EPA 6010D	6-13-25	6-13-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	06-146-01										
	ORIG	DUP									
Iron	**17800**	**16200**	NA	NA		NA		NA	9	20	
MATRIX SPIKES											
Laboratory ID:	06-146-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**39800**	**38400**	20000	20000	17800	**110**	**103**	75-125	3	20	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

June 18, 2025

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: Onsite (Chem)
Project Number: 4082-039-03
COC Number: 06-133

David Baumeister:

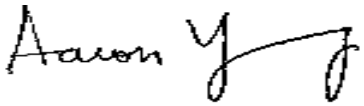
Enclosed please find the analytical data for your Onsite (Chem) project.

Your sample(s) were received on Tuesday, June 10, 2025 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.
Sincerely,



Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

ANALYSIS REPORT

Professional Analytical Services

Date Received: 06/10/25
Date Reported: 06/18/25

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A25F0213-01	FL358-MW30-250609	Water		06/09/2025	06/10/2025
A25F0213-02	FL358-MW29-250609	Water		06/09/2025	06/10/2025
A25F0213-03	FL358-MW28-250609	Water		06/09/2025	06/10/2025
A25F0213-04	FL358-MW25-250609	Water		06/09/2025	06/10/2025
A25F0213-05	FL358-MW24-250609	Water		06/09/2025	06/10/2025
A25F0213-06	FL358-MW23-250609	Water		06/09/2025	06/10/2025
A25F0213-07	FL358-MW13-250609	Water		06/09/2025	06/10/2025
A25F0213-08	FL358-MW10-250609	Water		06/09/2025	06/10/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/10/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

AMTEST Identification Number: A25F0213-01
Client Identification: FL358-MW30-250609
Sampling Date: 06/09/25 13:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	36	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0213-02
Client Identification: FL358-MW29-250609
Sampling Date: 06/09/25 15:55

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	18	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0213-03
Client Identification: FL358-MW28-250609
Sampling Date: 06/09/25 15:30

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	24	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0213-04
Client Identification: FL358-MW25-250609
Sampling Date: 06/09/25 12:55

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	5	mg/L		2	SM 5210B_2016	JY	06/11/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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ANALYSIS REPORT

Professional Analytical Services

Date Received: 06/10/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

AMTEST Identification Number: A25F0213-05
Client Identification: FL358-MW24-250609
Sampling Date: 06/09/25 14:50

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	4	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0213-06
Client Identification: FL358-MW23-250609
Sampling Date: 06/09/25 13:15

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	3	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0213-07
Client Identification: FL358-MW13-250609
Sampling Date: 06/09/25 17:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	4	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0213-08
Client Identification: FL358-MW10-250609
Sampling Date: 06/09/25 21:10

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	10	mg/L		2	SM 5210B_2016	JY	06/11/2025

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

Date Received: 06/10/25
Date Reported: 06/18/25

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCF0260 - No Prep - WetChem										
Calibration Blank (BCF0260-CCB1)					Prepared & Analyzed: 06/11/25					
Biological Oxygen Demand (BOD)	ND	U		mg/L						
Duplicate (BCF0260-DUP1)		**Source: A25F0215-03**			Prepared & Analyzed: 06/11/25					
Biological Oxygen Demand (BOD)	ND	U	2	mg/L		ND				44

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Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/10/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: Onsite (Chem)
Project #: 4082-039-03

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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A25F0213

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 06-133

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW30-250609	6/9/25	13:00	W	1	BOD 5
02	FL358-MW29-250609	6/9/25	15:55	W	1	BOD 5
03	FL358-MW28-250609	6/9/25	15:30	W	1	BOD 5
04	FL358-MW25-250609	6/9/25	12:55	W	1	BOD 5
05	FL358-MW24-250609	6/9/25	14:50	W	1	BOD 5
06	FL358-MW23-250609	6/9/25	13:15	W	1	BOD 5
07	FL358-MW13-250609	6/9/25	17:00	W	1	BOD 5
08	FL358-MW10-250609	6/9/25	21:10	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	6/10/25	4:15 pm	
Received by: Alison Conway		6/10/25	16:17	
Relinquished by:				
Received by:				**EDDs**
Relinquished by:				
Received by:				

8.7°C

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
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Professional Analytical Services

June 18, 2025

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: OSE
Project Number: 4082-039-03
COC Number: 06-133

David Baumeister:

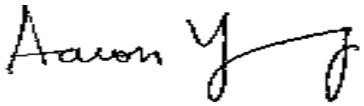
Enclosed please find the analytical data for your OSE project.

Your sample(s) were received on Wednesday, June 11, 2025 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.
Sincerely,



Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

ANALYSIS REPORT

Professional Analytical Services

Date Received: 06/11/25
Date Reported: 06/18/25

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A25F0230-01	FL358-MW22-250609	Water		06/09/2025	06/11/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Am Test Inc.
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Kirkland, WA
(425) 885-1664
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ANALYSIS REPORT

Professional Analytical Services

Date Received: 06/11/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

AMTEST Identification Number: A25F0230-01
Client Identification: FL358-MW22-250609
Sampling Date: 06/09/25 21:25

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	33	mg/L		2	SM 5210B_2016	JY	06/11/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/11/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCF0260 - No Prep - WetChem										
Calibration Blank (BCF0260-CCB1)					Prepared & Analyzed: 06/11/25					
Biological Oxygen Demand (BOD)	ND	U		mg/L						
Duplicate (BCF0260-DUP1)		**Source: A25F0215-03**			Prepared & Analyzed: 06/11/25					
Biological Oxygen Demand (BOD)	ND	U	2	mg/L		ND				44

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/11/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

A25F0230

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 06-133

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW22-250609	6/9/25	21:25	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	6/11/25	1:35 PM	
Received by:	AmTest	6/11/25	1:35 PM	
Relinquished by:				
Received by:				**EDDs**
Relinquished by:				
Received by:				

5.6°C

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: James Kohn and Tricia DeOme
Sampled by: JAK, DK, RM

Turnaround Request (In working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 06-133

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW30-250609	6/9/24	1300	W	10																		X		X	X	
2	FL358-MW29-250609	6/9/24	1555	W	10																		X		X	X	
3	FL358-MW28-250609	6/9/24	1530	W	10																		X		X	X	
~~—~~	~~FL358-MW27-250609~~	~~6/9/24~~	~~1650~~	~~W~~	~~10~~																		~~X~~		~~X~~	~~X~~	
4	FL358-MW25-250609	6/9/24	1255	W	10																		X		X	X	
5	FL358-MW24-250609	6/9/24	1450	W	10																		X		X	X	
6	FL358-MW23-250609	6/9/24	1315	W	10																		X		X	X	
7	FL358-MW22-250609	6/9/24	2125	W	9																		X		X	X	
~~—~~	~~FL358-MW19-250609~~	~~6/9/24~~	~~2150~~	~~W~~	~~10~~																		~~X~~		~~X~~	~~X~~	
~~—~~	~~FL358-MW16-250609~~	~~6/9/24~~	~~1530~~	~~W~~	~~10~~																		~~X~~		~~X~~	~~X~~	

	Signature	Company	Date	Time
Relinquished		CEI	6/10/25	1120
Received				
Relinquished				
Received	Aidan Prell	OSE	6/10/25	1256
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride. Report VOCs to 0.20 ug/L

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

Page 2 of 2

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: James Kohn and Tricia DeOme
Sampled by: JAK, DK, RM

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 06-133

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
8	FL358-MW13-2506 09	6/9/24	1700	W	10																		X		X	X	
9	FL358-MW10-2506 09	6/9/24	2110	W	10																		X		X	X	
10	FL358-RB1-2506 09	6/9/24	1615	W	3																		X		~~X~~	~~X~~	
11	FL358-TB1-2506 09	6/9/24	—	W	1																		X		~~X~~	~~X~~	
	~~FL358-~~	~~-2506~~	~~6/ /24~~		~~W~~																		X		X	X	
	~~FL358-~~	~~-2506~~	~~6/ /24~~		~~W~~																		X		X	X	
	~~FL358-~~	~~2506~~	~~6/ /24~~		~~W~~																		X		X	X	
	~~FL358~~	~~-2506~~	~~6/ /24~~		~~W~~																		X		X	X	
	~~FL358-~~	~~-2506~~	~~6/ /24~~		~~W~~																		X				
	~~FL358~~	~~-2506~~	~~6/ /24~~		~~W~~																		X				

	Signature	Company	Date	Time
Relinquished		GE	6/10/25	1120
Received				
Relinquished				
Received	Aidan Prell	OSE	6/10/25	1256
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride. Report VOCs to 0.20 ug/L

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: James Kohn
Sampled by: JK, DK

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 06-133

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture

See email

	Signature	Company	Date	Time
Relinquished	[signature]	GeoEngineers	6/10/25	12:10
Received	[signature]	Alpha	6/10	12:10
Relinquished	[signature]	Alpha	6/10	12:56
Received	[signature]	OSE	6/10/25	1256
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

See email from James K. on 6/10/25 w/ Sample IDs & selected analyses.

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 20, 2025

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2506-140

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on June 11, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

Case Narrative

Samples were collected on June 9 and 10, 2025 and received by the laboratory on June 11, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

All VOA vials provided for sample FL358-TB1-250610 contained headspace. Some loss of volatiles may have occurred.

Dissolved Gases by RSK-175 Analysis

Acetylene recovery was above laboratory control limits in the SB/SBD samples. Because this shows a high bias and no Acetylene was detected in other samples, no further action was required.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW27-250609	06-140-01	Water	6-9-25	6-11-25	
FL358-MW26-250610	06-140-02	Water	6-10-25	6-11-25	
FL358-MW21-250610	06-140-03	Water	6-10-25	6-11-25	
FL358-MW20-250610	06-140-04	Water	6-10-25	6-11-25	
FL358-MW19-250609	06-140-05	Water	6-9-25	6-11-25	
FL358-MW17-250610	06-140-06	Water	6-10-25	6-11-25	
FL358-MW16-250610	06-140-07	Water	6-10-25	6-11-25	
FL358-MW15-250609	06-140-08	Water	6-9-25	6-11-25	
FL358-MW14-250610	06-140-09	Water	6-10-25	6-11-25	
FL358-MW9-250610	06-140-10	Water	6-10-25	6-11-25	
FL358-MW8-250610	06-140-11	Water	6-10-25	6-11-25	
FL358-MW7-250610	06-140-12	Water	6-10-25	6-11-25	
FL358-MW11-250610	06-140-13	Water	6-10-25	6-11-25	
FL358-MWDUP-250610	06-140-14	Water	6-10-25	6-11-25	
FL358-RB1-250610	06-140-15	Water	6-10-25	6-11-25	
FL358-TB1-250610	06-140-16	Water	---	6-11-25	
FL358-MW12-250610	06-140-17	Water	6-10-25	6-11-25	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27-250609**					
Laboratory ID:	06-140-01					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*95*	*79-123*				
4-Bromofluorobenzene	*90*	*78-117*				
Client ID:	**FL358-MW26-250610**					
Laboratory ID:	06-140-02					
Vinyl Chloride (SIM)	0.50	0.20	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*88*	*78-117*				
Client ID:	**FL358-MW21-250610**					
Laboratory ID:	06-140-03					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*88*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW20-250610**					
Laboratory ID:	06-140-04					
Vinyl Chloride (SIM)	0.73	0.20	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*68-133*				
Toluene-d8	*95*	*79-123*				
4-Bromofluorobenzene	*90*	*78-117*				
Client ID:	**FL358-MW19-250609**					
Laboratory ID:	06-140-05					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*88*	*78-117*				
Client ID:	**FL358-MW17-250610**					
Laboratory ID:	06-140-06					
Vinyl Chloride (SIM)	0.40	0.20	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	1.9	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*88*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW16-250610**					
Laboratory ID:	06-140-07					
Vinyl Chloride	2.5	1.0	EPA 8260D	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	1.0	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	87	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	32	1.0	EPA 8260D	6-13-25	6-13-25	
Tetrachloroethene	30	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*96*	*79-123*				
4-Bromofluorobenzene	*89*	*78-117*				
Client ID:	**FL358-MW15-250609**					
Laboratory ID:	06-140-08					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*88*	*78-117*				
Client ID:	**FL358-MW14-250610**					
Laboratory ID:	06-140-09					
Vinyl Chloride	2.5	1.0	EPA 8260D	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	5.6	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*95*	*79-123*				
4-Bromofluorobenzene	*86*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-250610**					
Laboratory ID:	06-140-10					
Vinyl Chloride (SIM)	0.74	0.20	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	3.1	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*88*	*78-117*				
Client ID:	**FL358-MW8-250610**					
Laboratory ID:	06-140-11					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*68-133*				
Toluene-d8	*95*	*79-123*				
4-Bromofluorobenzene	*88*	*78-117*				
Client ID:	**FL358-MW7-250610**					
Laboratory ID:	06-140-12					
Vinyl Chloride	3.8	1.0	EPA 8260D	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	3.1	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*89*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW11-250610**					
Laboratory ID:	06-140-13					
Vinyl Chloride	1.7	1.0	EPA 8260D	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	1.7	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-19-25	6-19-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*89*	*78-117*				
Client ID:	**FL358-MWDUP-250610**					
Laboratory ID:	06-140-14					
Vinyl Chloride	2.5	1.0	EPA 8260D	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	81	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	29	1.0	EPA 8260D	6-13-25	6-13-25	
Tetrachloroethene	26	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*89*	*78-117*				
Client ID:	**FL358-RB1-250610**					
Laboratory ID:	06-140-15					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-19-25	6-19-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*88*	*78-117*				

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-TB1-250610**					
Laboratory ID:	06-140-16					
Vinyl Chloride	ND	0.20	EPA 8260D	6-13-25	6-13-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-13-25	6-13-25	
Tetrachloroethene	ND	0.20	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*95*	*78-117*				
Client ID:	**FL358-MW12-250610**					
Laboratory ID:	06-140-17					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.20	EPA 8260D	6-19-25	6-19-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*95*	*79-123*				
4-Bromofluorobenzene	*90*	*78-117*				

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27-250609**					
Laboratory ID:	06-140-01					
Methane	**2800**	28	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*116*	*50-150*				
Client ID:	**FL358-MW26-250610**					
Laboratory ID:	06-140-02					
Methane	**1100**	8.3	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*129*	*50-150*				
Client ID:	**FL358-MW21-250610**					
Laboratory ID:	06-140-03					
Methane	**3800**	33	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*110*	*50-150*				
Client ID:	**FL358-MW20-250610**					
Laboratory ID:	06-140-04					
Methane	**600**	5.5	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*128*	*50-150*				

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW19-250609**					
Laboratory ID:	06-140-05					
Methane	**1600**	17	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*129*	*50-150*				
Client ID:	**FL358-MW17-250610**					
Laboratory ID:	06-140-06					
Methane	**1000**	5.5	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*120*	*50-150*				
Client ID:	**FL358-MW16-250610**					
Laboratory ID:	06-140-07					
Methane	**240**	1.7	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*144*	*50-150*				
Client ID:	**FL358-MW15-250609**					
Laboratory ID:	06-140-08					
Methane	**1000**	5.5	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*136*	*50-150*				

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW14-250610**					
Laboratory ID:	06-140-09					
Methane	**170**	1.7	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*143*	*50-150*				
Client ID:	**FL358-MW9-250610**					
Laboratory ID:	06-140-10					
Methane	**1700**	17	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*140*	*50-150*				
Client ID:	**FL358-MW8-250610**					
Laboratory ID:	06-140-11					
Methane	**39**	0.55	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*139*	*50-150*				
Client ID:	**FL358-MW7-250610**					
Laboratory ID:	06-140-12					
Methane	**980**	5.5	RSK 175	6-18-25	6-18-25	
Ethane	**ND**	0.56	RSK 175	6-18-25	6-18-25	
Ethene	**ND**	0.58	RSK 175	6-18-25	6-18-25	
Acetylene	**ND**	3.1	RSK 175	6-18-25	6-18-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*139*	*50-150*				

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW11-250610**					
Laboratory ID:	06-140-13					
Methane	**600**	5.5	RSK 175	6-18-25	6-18-25	
Ethane	**ND**	0.56	RSK 175	6-18-25	6-18-25	
Ethene	**ND**	0.58	RSK 175	6-18-25	6-18-25	
Acetylene	**ND**	3.1	RSK 175	6-18-25	6-18-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*137*	*50-150*				
Client ID:	**FL358-MWDUP-250610**					
Laboratory ID:	06-140-14					
Methane	**270**	2.8	RSK 175	6-18-25	6-18-25	
Ethane	**ND**	0.56	RSK 175	6-18-25	6-18-25	
Ethene	**ND**	0.58	RSK 175	6-18-25	6-18-25	
Acetylene	**ND**	3.1	RSK 175	6-18-25	6-18-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*136*	*50-150*				
Client ID:	**FL358-MW12-250610**					
Laboratory ID:	06-140-17					
Methane	**1500**	8.3	RSK 175	6-18-25	6-18-25	
Ethane	**ND**	0.56	RSK 175	6-18-25	6-18-25	
Ethene	**ND**	0.58	RSK 175	6-18-25	6-18-25	
Acetylene	**ND**	3.1	RSK 175	6-18-25	6-18-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*137*	*50-150*				

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27-250609**					
Laboratory ID:	06-140-01					
Total Organic Carbon	**27**	1.0	SM 5310B	6-12-25	6-12-25	
Client ID:	**FL358-MW26-250610**					
Laboratory ID:	06-140-02					
Total Organic Carbon	**18**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW21-250610**					
Laboratory ID:	06-140-03					
Total Organic Carbon	**23**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW20-250610**					
Laboratory ID:	06-140-04					
Total Organic Carbon	**18**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW19-250609**					
Laboratory ID:	06-140-05					
Total Organic Carbon	**15**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW17-250610**					
Laboratory ID:	06-140-06					
Total Organic Carbon	**23**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW16-250610**					
Laboratory ID:	06-140-07					
Total Organic Carbon	**18**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW15-250609**					
Laboratory ID:	06-140-08					
Total Organic Carbon	**32**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW14-250610**					
Laboratory ID:	06-140-09					
Total Organic Carbon	**11**	1.0	SM 5310B	6-12-25	6-13-25	

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Date of Report: June 20, 2025
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Laboratory Reference: 2506-140
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-250610**					
Laboratory ID:	06-140-10					
Total Organic Carbon	**15**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW8-250610**					
Laboratory ID:	06-140-11					
Total Organic Carbon	**5.2**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW7-250610**					
Laboratory ID:	06-140-12					
Total Organic Carbon	**20**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW11-250610**					
Laboratory ID:	06-140-13					
Total Organic Carbon	**22**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MWDUP-250610**					
Laboratory ID:	06-140-14					
Total Organic Carbon	**18**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW12-250610**					
Laboratory ID:	06-140-17					
Total Organic Carbon	**31**	1.0	SM 5310B	6-12-25	6-13-25	

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Date of Report: June 20, 2025
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Laboratory Reference: 2506-140
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27-250609**					
Laboratory ID:	06-140-01					
Ammonia	**3.5**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW26-250610**					
Laboratory ID:	06-140-02					
Ammonia	**0.44**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW21-250610**					
Laboratory ID:	06-140-03					
Ammonia	**2.9**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW20-250610**					
Laboratory ID:	06-140-04					
Ammonia	**1.1**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW19-250609**					
Laboratory ID:	06-140-05					
Ammonia	**0.96**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW17-250610**					
Laboratory ID:	06-140-06					
Ammonia	**1.5**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW16-250610**					
Laboratory ID:	06-140-07					
Ammonia	**0.34**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW15-250609**					
Laboratory ID:	06-140-08					
Ammonia	**0.070**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW14-250610**					
Laboratory ID:	06-140-09					
Ammonia	**0.070**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-250610**					
Laboratory ID:	06-140-10					
Ammonia	**1.1**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW8-250610**					
Laboratory ID:	06-140-11					
Ammonia	**ND**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW7-250610**					
Laboratory ID:	06-140-12					
Ammonia	**2.4**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW11-250610**					
Laboratory ID:	06-140-13					
Ammonia	**2.6**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MWDUP-250610**					
Laboratory ID:	06-140-14					
Ammonia	**0.51**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW12-250610**					
Laboratory ID:	06-140-17					
Ammonia	**2.4**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27-250609**					
Laboratory ID:	06-140-01					
Nitrate	**ND**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW26-250610**					
Laboratory ID:	06-140-02					
Nitrate	**0.15**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW21-250610**					
Laboratory ID:	06-140-03					
Nitrate	**0.19**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW20-250610**					
Laboratory ID:	06-140-04					
Nitrate	**0.090**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW19-250609**					
Laboratory ID:	06-140-05					
Nitrate	**ND**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW17-250610**					
Laboratory ID:	06-140-06					
Nitrate	**0.17**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW16-250610**					
Laboratory ID:	06-140-07					
Nitrate	**ND**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW15-250609**					
Laboratory ID:	06-140-08					
Nitrate	**0.097**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW14-250610**					
Laboratory ID:	06-140-09					
Nitrate	**0.11**	0.050	EPA 353.2	6-11-25	6-11-25	

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-250610**					
Laboratory ID:	06-140-10					
Nitrate	**0.17**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW8-250610**					
Laboratory ID:	06-140-11					
Nitrate	**ND**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW7-250610**					
Laboratory ID:	06-140-12					
Nitrate	**0.18**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW11-250610**					
Laboratory ID:	06-140-13					
Nitrate	**0.096**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MWDUP-250610**					
Laboratory ID:	06-140-14					
Nitrate	**ND**	0.050	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW12-250610**					
Laboratory ID:	06-140-17					
Nitrate	**0.16**	0.050	EPA 353.2	6-11-25	6-11-25	

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27-250609**					
Laboratory ID:	06-140-01					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW26-250610**					
Laboratory ID:	06-140-02					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW21-250610**					
Laboratory ID:	06-140-03					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW20-250610**					
Laboratory ID:	06-140-04					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW19-250609**					
Laboratory ID:	06-140-05					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW17-250610**					
Laboratory ID:	06-140-06					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW16-250610**					
Laboratory ID:	06-140-07					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW15-250609**					
Laboratory ID:	06-140-08					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW14-250610**					
Laboratory ID:	06-140-09					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-250610**					
Laboratory ID:	06-140-10					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW8-250610**					
Laboratory ID:	06-140-11					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW7-250610**					
Laboratory ID:	06-140-12					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW11-250610**					
Laboratory ID:	06-140-13					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MWDUP-250610**					
Laboratory ID:	06-140-14					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	
Client ID:	**FL358-MW12-250610**					
Laboratory ID:	06-140-17					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27-250609**					
Laboratory ID:	06-140-01					
Sulfate	**ND**	5.0	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW26-250610**					
Laboratory ID:	06-140-02					
Sulfate	**21**	10	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW21-250610**					
Laboratory ID:	06-140-03					
Sulfate	**ND**	5.0	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW20-250610**					
Laboratory ID:	06-140-04					
Sulfate	**26**	10	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW19-250609**					
Laboratory ID:	06-140-05					
Sulfate	**ND**	5.0	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW17-250610**					
Laboratory ID:	06-140-06					
Sulfate	**ND**	5.0	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW16-250610**					
Laboratory ID:	06-140-07					
Sulfate	**11**	5.0	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW15-250609**					
Laboratory ID:	06-140-08					
Sulfate	**ND**	5.0	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW14-250610**					
Laboratory ID:	06-140-09					
Sulfate	**6.0**	5.0	ASTM D516-16	6-16-25	6-16-25	

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Date of Report: June 20, 2025
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Project: 4082-039-03

SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-250610**					
Laboratory ID:	06-140-10					
Sulfate	**ND**	5.0	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW8-250610**					
Laboratory ID:	06-140-11					
Sulfate	**7.2**	5.0	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW7-250610**					
Laboratory ID:	06-140-12					
Sulfate	**30**	10	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW11-250610**					
Laboratory ID:	06-140-13					
Sulfate	**7.6**	5.0	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MWDUP-250610**					
Laboratory ID:	06-140-14					
Sulfate	**7.3**	5.0	ASTM D516-16	6-16-25	6-16-25	
Client ID:	**FL358-MW12-250610**					
Laboratory ID:	06-140-17					
Sulfate	**ND**	5.0	ASTM D516-16	6-16-25	6-16-25	

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Date of Report: June 20, 2025
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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27-250609**					
Laboratory ID:	06-140-01					
Chloride	**19**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW26-250610**					
Laboratory ID:	06-140-02					
Chloride	**44**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW21-250610**					
Laboratory ID:	06-140-03					
Chloride	**16**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW20-250610**					
Laboratory ID:	06-140-04					
Chloride	**44**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW19-250609**					
Laboratory ID:	06-140-05					
Chloride	**35**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW17-250610**					
Laboratory ID:	06-140-06					
Chloride	**38**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW16-250610**					
Laboratory ID:	06-140-07					
Chloride	**42**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW15-250609**					
Laboratory ID:	06-140-08					
Chloride	**82**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW14-250610**					
Laboratory ID:	06-140-09					
Chloride	**29**	2.0	SM 4500-Cl E	6-13-25	6-13-25	

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
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Project: 4082-039-03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW9-250610**					
Laboratory ID:	06-140-10					
Chloride	**30**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW8-250610**					
Laboratory ID:	06-140-11					
Chloride	**46**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW7-250610**					
Laboratory ID:	06-140-12					
Chloride	**25**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW11-250610**					
Laboratory ID:	06-140-13					
Chloride	**25**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MWDUP-250610**					
Laboratory ID:	06-140-14					
Chloride	**42**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW12-250610**					
Laboratory ID:	06-140-17					
Chloride	**40**	2.0	SM 4500-Cl E	6-13-25	6-13-25	

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TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW27-250609**					
Laboratory ID:	06-140-01					
Iron	**42000**	500	EPA 6010D	6-16-25	6-17-25	
Client ID:	**FL358-MW26-250610**					
Laboratory ID:	06-140-02					
Iron	**35000**	500	EPA 6010D	6-16-25	6-17-25	
Client ID:	**FL358-MW21-250610**					
Laboratory ID:	06-140-03					
Iron	**62000**	500	EPA 6010D	6-16-25	6-17-25	
Client ID:	**FL358-MW20-250610**					
Laboratory ID:	06-140-04					
Iron	**24000**	50	EPA 6010D	6-16-25	6-16-25	
Client ID:	**FL358-MW19-250609**					
Laboratory ID:	06-140-05					
Iron	**46000**	500	EPA 6010D	6-16-25	6-17-25	
Client ID:	**FL358-MW17-250610**					
Laboratory ID:	06-140-06					
Iron	**44000**	500	EPA 6010D	6-16-25	6-17-25	
Client ID:	**FL358-MW16-250610**					
Laboratory ID:	06-140-07					
Iron	**8600**	50	EPA 6010D	6-16-25	6-16-25	
Client ID:	**FL358-MW15-250609**					
Laboratory ID:	06-140-08					
Iron	**33000**	500	EPA 6010D	6-16-25	6-17-25	

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Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW14-250610**					
Laboratory ID:	06-140-09					
Iron	**6600**	50	EPA 6010D	6-16-25	6-16-25	
Client ID:	**FL358-MW9-250610**					
Laboratory ID:	06-140-10					
Iron	**44000**	500	EPA 6010D	6-16-25	6-17-25	
Client ID:	**FL358-MW8-250610**					
Laboratory ID:	06-140-11					
Iron	**440**	50	EPA 6010D	6-16-25	6-16-25	
Client ID:	**FL358-MW7-250610**					
Laboratory ID:	06-140-12					
Iron	**44000**	500	EPA 6010D	6-16-25	6-17-25	
Client ID:	**FL358-MW11-250610**					
Laboratory ID:	06-140-13					
Iron	**50000**	500	EPA 6010D	6-16-25	6-17-25	
Client ID:	**FL358-MWDUP-250610**					
Laboratory ID:	06-140-14					
Iron	**8800**	50	EPA 6010D	6-16-25	6-16-25	
Client ID:	**FL358-MW12-250610**					
Laboratory ID:	06-140-17					
Iron	**65000**	500	EPA 6010D	6-16-25	6-17-25	

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VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0613W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	6-13-25	6-13-25	
1,1-Dichloroethene	ND	0.10	EPA 8260D	6-13-25	6-13-25	
(trans) 1,2-Dichloroethene	ND	0.10	EPA 8260D	6-13-25	6-13-25	
(cis) 1,2-Dichloroethene	ND	0.10	EPA 8260D	6-13-25	6-13-25	
Trichloroethene	ND	0.10	EPA 8260D	6-13-25	6-13-25	
Tetrachloroethene	ND	0.10	EPA 8260D	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*88*	*78-117*				
Laboratory ID:	MB0617W2					
Trichloroethene	ND	0.20	EPA 8260D	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*89*	*78-117*				
Laboratory ID:	MB0619W2					
Trichloroethene	ND	0.20	EPA 8260D	6-19-25	6-19-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
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VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0613W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**8.81**	**7.90**	10.0	10.0	88	79	67-131	11	16	
1,1-Dichloroethene	**8.73**	**7.98**	10.0	10.0	87	80	77-125	9	15	
(trans) 1,2-Dichloroethene	**8.36**	**7.72**	10.0	10.0	84	77	76-126	8	15	
(cis) 1,2-Dichloroethene	**8.75**	**8.00**	10.0	10.0	88	80	77-129	9	15	
Trichloroethene	**10.1**	**9.48**	10.0	10.0	101	95	80-130	6	15	
Tetrachloroethene	**11.9**	**11.4**	10.0	10.0	119	114	80-130	4	20	
Surrogate:										
Dibromofluoromethane					*92*	*91*	*68-133*			
Toluene-d8					*96*	*94*	*79-123*			
4-Bromofluorobenzene					*91*	*94*	*78-117*			
Laboratory ID:	SB0617W2									
	SB	SBD	SB	SBD	SB	SBD				
Trichloroethene	**9.72**	**9.37**	10.0	10.0	97	94	80-130	4	15	
Surrogate:										
Dibromofluoromethane					*92*	*89*	*68-133*			
Toluene-d8					*94*	*95*	*79-123*			
4-Bromofluorobenzene					*92*	*92*	*78-117*			
Laboratory ID:	SB0619W2									
	SB	SBD	SB	SBD	SB	SBD				
Trichloroethene	**10.9**	**10.6**	10.0	10.0	109	106	80-130	3	15	
Surrogate:										
Dibromofluoromethane					*100*	*99*	*68-133*			
Toluene-d8					*100*	*100*	*79-123*			
4-Bromofluorobenzene					*101*	*101*	*78-117*			

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0617W1					
Methane	**ND**	0.55	RSK 175	6-17-25	6-17-25	
Ethane	**ND**	0.56	RSK 175	6-17-25	6-17-25	
Ethene	**ND**	0.58	RSK 175	6-17-25	6-17-25	
Acetylene	**ND**	3.1	RSK 175	6-17-25	6-17-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*96*	*50-150*				
Laboratory ID:	MB0618W1					
Methane	**ND**	0.55	RSK 175	6-18-25	6-18-25	
Ethane	**ND**	0.56	RSK 175	6-18-25	6-18-25	
Ethene	**ND**	0.58	RSK 175	6-18-25	6-18-25	
Acetylene	**ND**	3.1	RSK 175	6-18-25	6-18-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*116*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0617W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**34.0**	**34.8**	44.2	44.2	77	79	75-125	2	25	
Ethane	**65.2**	**67.4**	83.2	83.2	78	81	75-125	3	25	
Ethene	**69.5**	**73.1**	77.7	77.7	89	94	75-125	5	25	
Acetylene	**74.2**	**92.4**	72.0	72.0	103	128	60-140	22	25	
Surrogate:										
1-Butene					*82*	*87*	*50-150*			
Laboratory ID:	SB0618W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**37.2**	**37.7**	44.2	44.2	84	85	75-125	1	25	
Ethane	**71.3**	**73.8**	83.2	83.2	86	89	75-125	3	25	
Ethene	**78.7**	**81.9**	77.7	77.7	101	105	75-125	4	25	
Acetylene	**110**	**127**	72.0	72.0	153	176	60-140	14	25	I,I
Surrogate:										
1-Butene					*89*	*105*	*50-150*			

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0612W2					
Total Organic Carbon	**ND**	1.0	SM 5310B	6-12-25	6-12-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-140-01								
	ORIG	DUP							
Total Organic Carbon	**26.7**	**27.3**	NA	NA	NA	NA	2	10	
MATRIX SPIKE									
Laboratory ID:	06-140-01								
	MS		MS		MS				
Total Organic Carbon	**38.4**		10.0	26.7	117	70-136	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0623W2								
	SB		SB		SB				
Total Organic Carbon	**10.2**		10.0	NA	102	83-130	NA	NA	

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Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0617W2					
Ammonia	**ND**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-140-01								
	ORIG	DUP							
Ammonia	**3.54**	**3.43**	NA	NA	NA	NA	3	21	
MATRIX SPIKE									
Laboratory ID:	06-140-01								
	MS		MS		MS				
Ammonia	**7.89**		5.00	3.54	87	76-114	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0617W2								
	SB		SB		SB				
Ammonia	**4.50**		5.00	NA	90	81-110	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0611W2					
Nitrate	**ND**	0.050	EPA 353.2	6-11-25	6-11-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-140-02								
	ORIG	DUP							
Nitrate	**0.150**	**0.135**	NA	NA	NA	NA	11	23	
MATRIX SPIKE									
Laboratory ID:	06-140-02								
	MS		MS		MS				
Nitrate	**2.36**		2.00	0.150	111	74-130	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0611W2								
	SB		SB		SB				
Nitrate	**2.18**		2.00	NA	109	82-128	NA	NA	

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0611W2					
Nitrite	**ND**	0.020	EPA 353.2	6-11-25	6-11-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-140-02								
	ORIG	DUP							
Nitrite	**ND**	**ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE									
Laboratory ID:	06-140-02								
	MS		MS		MS				
Nitrite	**0.271**		0.250	ND	108	71-129	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0611W2								
	SB		SB		SB				
Nitrite	**0.269**		0.250	NA	108	79-123	NA	NA	

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

SULFATE
ASTM D516-16
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0616W1					
Sulfate	**ND**	5.0	ASTM D516-16	6-16-25	6-16-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-140-02								
	ORIG	DUP							
Sulfate	**20.9**	**22.3**	NA	NA	NA	NA	6	11	
MATRIX SPIKE									
Laboratory ID:	06-140-02								
	MS		MS		MS				
Sulfate	**44.4**		20.0	20.9	118	70-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0616W1								
	SB		SB		SB				
Sulfate	**9.47**		10.0	NA	95	83-113	NA	NA	

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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0613W2					
Chloride	**ND**	2.0	SM 4500-Cl E	6-13-25	6-13-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-140-01								
	ORIG	DUP							
Chloride	**18.5**	**18.3**	NA	NA	NA	NA	1	15	
MATRIX SPIKE									
Laboratory ID:	06-140-01								
	MS		MS		MS				
Chloride	**73.5**		50.0	18.5	110	79-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0613W2								
	SB		SB		SB				
Chloride	**53.2**		50.0	NA	106	82-123	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: June 20, 2025
Samples Submitted: June 11, 2025
Laboratory Reference: 2506-140
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0616WH1					
Iron	**ND**	50	EPA 6010D	6-16-25	6-16-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	06-057-04										
	ORIG	DUP									
Iron	**80.0**	**92.2**	NA	NA		NA		NA	14	20	
MATRIX SPIKES											
Laboratory ID:	06-057-04										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22100**	**21600**	20000	20000	80.0	**110**	**107**	75-125	3	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

June 18, 2025

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: OSE
Project Number: 4082-039-03
COC Number: 06-140

David Baumeister:

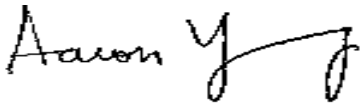
Enclosed please find the analytical data for your OSE project.

Your sample(s) were received on Wednesday, June 11, 2025 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.
Sincerely,



Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Date Received: 06/11/25
Date Reported: 06/18/25

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A25F0231-01	FL358-MW27-250609	Water		06/09/2025	06/11/2025
A25F0231-02	FL358-MW26-250610	Water		06/10/2025	06/11/2025
A25F0231-03	FL358-MW21-250610	Water		06/10/2025	06/11/2025
A25F0231-04	FL358-MW20-250610	Water		06/10/2025	06/11/2025
A25F0231-05	FL358-MW19-250609	Water		06/09/2025	06/11/2025
A25F0231-06	FL358-MW17-250610	Water		06/10/2025	06/11/2025
A25F0231-07	FL358-MW16-250610	Water		06/10/2025	06/11/2025
A25F0231-08	FL358-MW15-250609	Water		06/09/2025	06/11/2025
A25F0231-09	FL358-MW14-250610	Water		06/10/2025	06/11/2025
A25F0231-10	FL358-MW9-250610	Water		06/10/2025	06/11/2025
A25F0231-11	FL358-MW8-250610	Water		06/10/2025	06/11/2025
A25F0231-12	FL358-MW7-250610	Water		06/10/2025	06/11/2025
A25F0231-13	FL358-MW11-250610	Water		06/10/2025	06/11/2025
A25F0231-14	FL358-MWDUP-250610	Water		06/10/2025	06/11/2025
A25F0231-15	FL358-MW12-250610	Water		06/10/2025	06/11/2025

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AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/11/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

AMTEST Identification Number: A25F0231-01
Client Identification: FL358-MW27-250609
Sampling Date: 06/09/25 18:50

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	59	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0231-02
Client Identification: FL358-MW26-250610
Sampling Date: 06/10/25 11:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	10	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0231-03
Client Identification: FL358-MW21-250610
Sampling Date: 06/10/25 16:30

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	20	mg/L	P	2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0231-04
Client Identification: FL358-MW20-250610
Sampling Date: 06/10/25 12:10

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	10	mg/L		2	SM 5210B_2016	JY	06/11/2025

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Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/11/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

AMTEST Identification Number: A25F0231-05
Client Identification: FL358-MW19-250609
Sampling Date: 06/09/25 21:30

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	23	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0231-06
Client Identification: FL358-MW17-250610
Sampling Date: 06/10/25 13:25

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	14	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0231-07
Client Identification: FL358-MW16-250610
Sampling Date: 06/10/25 14:15

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	5	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0231-08
Client Identification: FL358-MW15-250609
Sampling Date: 06/09/25 18:30

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	13	mg/L		2	SM 5210B_2016	JY	06/11/2025

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Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/11/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

AMTEST Identification Number: A25F0231-09
Client Identification: FL358-MW14-250610
Sampling Date: 06/10/25 21:15

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	4	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0231-10
Client Identification: FL358-MW9-250610
Sampling Date: 06/10/25 21:05

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	19	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0231-11
Client Identification: FL358-MW8-250610
Sampling Date: 06/10/25 21:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	3	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0231-12
Client Identification: FL358-MW7-250610
Sampling Date: 06/10/25 15:55

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	9	mg/L		2	SM 5210B_2016	JY	06/11/2025

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ANALYSIS REPORT

Date Received: 06/11/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

AMTEST Identification Number: A25F0231-13
Client Identification: FL358-MW11-250610
Sampling Date: 06/10/25 16:25

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	18	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0231-14
Client Identification: FL358-MWDUP-250610
Sampling Date: 06/10/25 10:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	6	mg/L		2	SM 5210B_2016	JY	06/11/2025

AMTEST Identification Number: A25F0231-15
Client Identification: FL358-MW12-250610
Sampling Date: 06/10/25 12:25

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	14	mg/L		2	SM 5210B_2016	JY	06/11/2025

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ANALYSIS REPORT

Professional Analytical Services

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Date Received: 06/11/25
Date Reported: 06/18/25

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCF0260 - No Prep - WetChem										
Calibration Blank (BCF0260-CCB1)					Prepared & Analyzed: 06/11/25					
Biological Oxygen Demand (BOD)	ND	U		mg/L						
Duplicate (BCF0260-DUP1)		**Source: A25F0215-03**			Prepared & Analyzed: 06/11/25					
Biological Oxygen Demand (BOD)	ND	U	2	mg/L		ND				44

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Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/11/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Notes and Definitions

Item	Definition
P	Oxygen depletion exceeded method specification. Sample was diluted.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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A25F0231

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 06-140

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW27-250609	6/9/25	18:50	W	1	BOD 5
02	FL358-MW26-250610	6/10/25	11:00	W	1	BOD 5
03	FL358-MW21-250610	6/10/25	16:30	W	1	BOD 5
04	FL358-MW20-250610	6/10/25	12:10	W	1	BOD 5
05	FL358-MW19-250609	6/9/25	21:30	W	1	BOD 5
06	FL358-MW17-250610	6/10/25	13:25	W	1	BOD 5
07	FL358-MW16-250610	6/10/25	14:15	W	1	BOD 5
08	FL358-MW15-250609	6/9/25	18:30	W	1	BOD 5
09	FL358-MW14-250610	6/10/25	21:15	W	1	BOD 5
10	FL358-MW9-250610	6/10/25	21:05	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	6/11/25	1:35 pm	
Received by:	AmTest	6/11/25	1:35 pm	
Relinquished by:				**EDDs**
Received by:				
Relinquished by:				
Received by:				

5.6°C

A25F0231

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 06-140

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
11	FL358-MW8-250610	6/10/25	21:00	W	1	BOD 5
12	FL358-MW7-250610	6/10/25	15:55	W	1	BOD 5
13	FL358-MW11-250610	6/10/25	16:25	W	1	BOD 5
14	FL358-MWDUP-250610	6/10/25	10:00	W	1	BOD 5
15	FL358-MW12-250610	6/10/25	12:25	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	6/11/25	1:35 pm	
Received by:	AmTest	6/11/25	1:3[illegible] pm	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

5.6°C

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: James Kohn and Tricia DeOme
Sampled by: JAK, DK, RM

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 06-140

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1	FL358-MW27-250609	6/9/24	1850	W	10																		X		X	X	
2	FL358-MW26-250610	6/10/24	1100	W	10																		X		X	X	
3	FL358-MW21-250610	6/10/24	1630	W	10																		X		X	X	
4	FL358-MW20-250610	6/10/24	1210	W	10																		X		X	X	
5	FL358-MW19-250609	6/9/24	2130	W	10																		X		X	X	
6	FL358-MW17-250610	6/10/24	1325	W	10																		X		X	X	
7	FL358-MW16-250610	6/10/24	1415	W	10																		X		X	X	
8	FL358-MW15-250609	6/9/24	1830	W	10																		X		X	X	
9	FL358-MW14-250610	6/10/24	2115	W	10																		X		X	X	
~~10~~	~~FL358-MW13-250610~~	6/10/24		W	10																		X		X	X	

	Signature	Company	Date	Time
Relinquished	Divya K	GEI	6/11/24	1046
Received	Van	Spdy	6/11/24	1046
Relinquished	Van	Spdy	6/11/24	1124
Received		GSE	6/11/24	1125
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride. Report VOCs to 0.20 ug/L

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: James Kohn and Tricia DeOme
Sampled by: JAK, DK, RM

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 06-140

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
10	FL358-MW9-2506 10	6/10/24	2105	W	10																		X		X	X	
11	FL358-MW8-2506 10	6/10/24	2100	W	10																		X		X	X	
12	FL358-MW7-2506 10	6/10/24	1555	W	10																		X		X	X	
13	FL358-MW11-2506 10	6/10/24	1625	W	10																		X		X	X	
14	FL358-MWDUP-2506 10	6/10/24	1000	W	10																		X		X	X	
15	FL358-RBI-2506 10	6/10/24	1630	W	3																		X		~~X~~	~~X~~	
16	FL358-TBI-2506 10	6/10/24	–	W	1																		X		~~X~~	~~X~~	
17	FL358-MW12-2506 10	6/10/24	1225	W	10																		X		X	X	
	FL358- -2506	6/ /24		W																			X				
	FL358- -2506	6/ /24		W																			X				

	Signature	Company	Date	Time
Relinquished	DIVYA K	GEI	6/11/25	1046
Received	Van	Spdy	6/11/25	1046
Relinquished	Van	Spdy	6/11/25	1125
Received		OSE	6/11/25	1125
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride. Report VOCs to 0.20 ug/L

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 23, 2025

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 4082-039-03
Laboratory Reference No. 2506-174

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on June 12, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

Case Narrative

Samples were collected on June 11, 2025 and received by the laboratory on June 12, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Dissolved Gases by RSK-175 Analysis

Acetylene recovery was above laboratory control limits in the SB and SBD samples. Because this shows a high bias and no Acetylene was detected in other samples, no further action was required.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
FL358-MW5A-250611	06-174-01	Water	6-11-25	6-12-25	
FL358-MW5B-250611	06-174-02	Water	6-11-25	6-12-25	
FL358-MW6-250611	06-174-03	Water	6-11-25	6-12-25	
FL358-GWDUP-250611	06-174-04	Water	6-11-25	6-12-25	
FL358-RB1-250611	06-174-05	Water	6-11-25	6-12-25	
FL358-TB1-250611	06-174-06	Water	---	6-12-25	

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Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-250611**					
Laboratory ID:	06-174-01					
Vinyl Chloride	9.4	1.0	EPA 8260D	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	120	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	200	1.0	EPA 8260D	6-16-25	6-16-25	
Tetrachloroethene	350	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*104*	*78-117*				
Client ID:	**FL358-MW5B-250611**					
Laboratory ID:	06-174-02					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-19-25	6-19-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*103*	*78-117*				
Client ID:	**FL358-MW6-250611**					
Laboratory ID:	06-174-03					
Vinyl Chloride (SIM)	0.68	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	1.5	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	90	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	86	1.0	EPA 8260D	6-16-25	6-16-25	
Tetrachloroethene	2.0	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*103*	*79-123*				
4-Bromofluorobenzene	*103*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-GWDUP-250611**					
Laboratory ID:	06-174-04					
Vinyl Chloride (SIM)	0.68	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	1.5	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	91	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	85	1.0	EPA 8260D	6-16-25	6-16-25	
Tetrachloroethene	1.7	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*103*	*78-117*				
Client ID:	**FL358-RB1-250611**					
Laboratory ID:	06-174-05					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-19-25	6-19-25	
Tetrachloroethene	ND	1.0	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*102*	*78-117*				
Client ID:	**FL358-TB1-250611**					
Laboratory ID:	06-174-06					
Vinyl Chloride	ND	0.20	EPA 8260D	6-16-25	6-16-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.20	EPA 8260D	6-16-25	6-16-25	
Tetrachloroethene	ND	0.20	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*103*	*79-123*				
4-Bromofluorobenzene	*104*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-250611**					
Laboratory ID:	06-174-01					
Methane	**290**	2.8	RSK 175	6-13-25	6-13-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*140*	*50-150*				
Client ID:	**FL358-MW5B-250611**					
Laboratory ID:	06-174-02					
Methane	**42**	0.55	RSK 175	6-13-25	6-13-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*136*	*50-150*				
Client ID:	**FL358-MW6-250611**					
Laboratory ID:	06-174-03					
Methane	**680**	5.5	RSK 175	6-13-25	6-13-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*134*	*50-150*				
Client ID:	**FL358-GWDUP-250611**					
Laboratory ID:	06-174-04					
Methane	**790**	5.5	RSK 175	6-13-25	6-13-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*122*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-250611**					
Laboratory ID:	06-174-01					
Total Organic Carbon	**8.2**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW5B-250611**					
Laboratory ID:	06-174-02					
Total Organic Carbon	**7.3**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-MW6-250611**					
Laboratory ID:	06-174-03					
Total Organic Carbon	**9.4**	1.0	SM 5310B	6-12-25	6-13-25	
Client ID:	**FL358-GWDUP-250611**					
Laboratory ID:	06-174-04					
Total Organic Carbon	**9.1**	1.0	SM 5310B	6-12-25	6-13-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-250611**					
Laboratory ID:	06-174-01					
Ammonia	**0.20**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW5B-250611**					
Laboratory ID:	06-174-02					
Ammonia	**ND**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-MW6-250611**					
Laboratory ID:	06-174-03					
Ammonia	**0.083**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	
Client ID:	**FL358-GWDUP-250611**					
Laboratory ID:	06-174-04					
Ammonia	**0.082**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-250611**					
Laboratory ID:	06-174-01					
Nitrate	**0.058**	0.050	EPA 353.2	6-12-25	6-12-25	
Client ID:	**FL358-MW5B-250611**					
Laboratory ID:	06-174-02					
Nitrate	**0.11**	0.050	EPA 353.2	6-12-25	6-12-25	
Client ID:	**FL358-MW6-250611**					
Laboratory ID:	06-174-03					
Nitrate	**ND**	0.050	EPA 353.2	6-12-25	6-12-25	
Client ID:	**FL358-GWDUP-250611**					
Laboratory ID:	06-174-04					
Nitrate	**ND**	0.050	EPA 353.2	6-12-25	6-12-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-250611**					
Laboratory ID:	06-174-01					
Nitrite	**ND**	0.020	EPA 353.2	6-12-25	6-12-25	
Client ID:	**FL358-MW5B-250611**					
Laboratory ID:	06-174-02					
Nitrite	**ND**	0.020	EPA 353.2	6-12-25	6-12-25	
Client ID:	**FL358-MW6-250611**					
Laboratory ID:	06-174-03					
Nitrite	**ND**	0.020	EPA 353.2	6-12-25	6-12-25	
Client ID:	**FL358-GWDUP-250611**					
Laboratory ID:	06-174-04					
Nitrite	**ND**	0.020	EPA 353.2	6-12-25	6-12-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-250611**					
Laboratory ID:	06-174-01					
Sulfate	**17**	5.0	ASTM D516-16	6-19-25	6-19-25	
Client ID:	**FL358-MW5B-250611**					
Laboratory ID:	06-174-02					
Sulfate	**5.9**	5.0	ASTM D516-16	6-19-25	6-19-25	
Client ID:	**FL358-MW6-250611**					
Laboratory ID:	06-174-03					
Sulfate	**ND**	5.0	ASTM D516-16	6-19-25	6-19-25	
Client ID:	**FL358-GWDUP-250611**					
Laboratory ID:	06-174-04					
Sulfate	**ND**	5.0	ASTM D516-16	6-19-25	6-19-25	

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Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-250611**					
Laboratory ID:	06-174-01					
Chloride	**31**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW5B-250611**					
Laboratory ID:	06-174-02					
Chloride	**28**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-MW6-250611**					
Laboratory ID:	06-174-03					
Chloride	**35**	2.0	SM 4500-Cl E	6-13-25	6-13-25	
Client ID:	**FL358-GWDUP-250611**					
Laboratory ID:	06-174-04					
Chloride	**36**	2.0	SM 4500-Cl E	6-13-25	6-13-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

TOTAL IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FL358-MW5A-250611**					
Laboratory ID:	06-174-01					
Iron	**4900**	50	EPA 6010D	6-13-25	6-13-25	
Client ID:	**FL358-MW5B-250611**					
Laboratory ID:	06-174-02					
Iron	**240**	50	EPA 6010D	6-13-25	6-13-25	
Client ID:	**FL358-MW6-250611**					
Laboratory ID:	06-174-03					
Iron	**1100**	50	EPA 6010D	6-13-25	6-13-25	
Client ID:	**FL358-GWDUP-250611**					
Laboratory ID:	06-174-04					
Iron	**1100**	50	EPA 6010D	6-13-25	6-13-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0616W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	6-16-25	6-16-25	
1,1-Dichloroethene	ND	0.10	EPA 8260D	6-16-25	6-16-25	
(trans) 1,2-Dichloroethene	ND	0.10	EPA 8260D	6-16-25	6-16-25	
(cis) 1,2-Dichloroethene	ND	0.10	EPA 8260D	6-16-25	6-16-25	
Trichloroethene	ND	0.10	EPA 8260D	6-16-25	6-16-25	
Tetrachloroethene	ND	0.10	EPA 8260D	6-16-25	6-16-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Laboratory ID:	MB0619W2					
Trichloroethene	ND	0.20	EPA 8260D	6-19-25	6-19-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0616W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**8.14**	**8.32**	10.0	10.0	81	83	67-131	2	16	
1,1-Dichloroethene	**8.93**	**9.13**	10.0	10.0	89	91	77-125	2	15	
(trans) 1,2-Dichloroethene	**8.84**	**9.08**	10.0	10.0	88	91	76-126	3	15	
(cis) 1,2-Dichloroethene	**8.81**	**9.12**	10.0	10.0	88	91	77-129	3	15	
Trichloroethene	**9.76**	**10.0**	10.0	10.0	98	100	80-130	2	15	
Tetrachloroethene	**9.53**	**9.74**	10.0	10.0	95	97	80-130	2	20	
Surrogate:										
Dibromofluoromethane					*88*	*90*	*68-133*			
Toluene-d8					*100*	*100*	*79-123*			
4-Bromofluorobenzene					*102*	*102*	*78-117*			
Laboratory ID:	SB0619W2									
	SB	SBD	SB	SBD	SB	SBD				
Trichloroethene	**10.9**	**10.6**	10.0	10.0	109	106	80-130	3	15	
Surrogate:										
Dibromofluoromethane					*100*	*99*	*68-133*			
Toluene-d8					*100*	*100*	*79-123*			
4-Bromofluorobenzene					*101*	*101*	*78-117*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0613W1					
Methane	**ND**	0.55	RSK 175	6-13-25	6-13-25	
Ethane	**ND**	0.56	RSK 175	6-13-25	6-13-25	
Ethene	**ND**	0.58	RSK 175	6-13-25	6-13-25	
Acetylene	**ND**	3.1	RSK 175	6-13-25	6-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*121*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0613W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**39.1**	**38.2**	44.2	44.2	89	86	75-125	2	25	
Ethane	**75.9**	**72.5**	83.2	83.2	91	87	75-125	5	25	
Ethene	**84.9**	**81.9**	77.7	77.7	109	105	75-125	4	25	
Acetylene	**122**	**127**	72.0	72.0	169	176	60-140	4	25	I,I
Surrogate:										
1-Butene					*97*	*88*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0612W2					
Total Organic Carbon	**ND**	1.0	SM 5310B	6-12-25	6-12-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-140-01								
	ORIG	DUP							
Total Organic Carbon	**26.7**	**27.3**	NA	NA	NA	NA	2	10	
MATRIX SPIKE									
Laboratory ID:	06-140-01								
	MS		MS		MS				
Total Organic Carbon	**38.4**		10.0	26.7	117	70-136	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0623W2								
	SB		SB		SB				
Total Organic Carbon	**10.2**		10.0	NA	102	83-130	NA	NA	

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Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0617W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	6-17-25	6-17-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-133-02								
	ORIG	DUP							
Ammonia	**0.690**	**0.724**	NA	NA	NA	NA	5	21	
MATRIX SPIKE									
Laboratory ID:	06-133-02								
	MS		MS		MS				
Ammonia	**5.04**		5.00	0.690	87	76-114	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0617W1								
	SB		SB		SB				
Ammonia	**4.90**		5.00	NA	98	81-110	NA	NA	

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Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0612W2					
Nitrate	**ND**	0.050	EPA 353.2	6-12-25	6-12-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-174-01								
	ORIG	DUP							
Nitrate	**0.0577**	**0.0539**	NA	NA	NA	NA	7	23	
MATRIX SPIKE									
Laboratory ID:	06-174-01								
	MS		MS		MS				
Nitrate	**2.25**		2.00	0.0577	110	74-130	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0612W2								
	SB		SB		SB				
Nitrate	**2.20**		2.00	NA	110	82-128	NA	NA	

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Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0612W1					
Nitrite	**ND**	0.020	EPA 353.2	6-12-25	6-12-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-174-01							
	ORIG DUP							
Nitrite	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	06-174-01							
	MS	MS		MS				
Nitrite	**0.271**	0.250	ND	108	71-129	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0612W1							
	SB	SB		SB				
Nitrite	**0.271**	0.250	NA	108	79-123	NA	NA	

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Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

SULFATE
ASTM D516-16
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0619W1					
Sulfate	**ND**	5.0	ASTM D516-16	6-19-25	6-19-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-175-01								
	ORIG	DUP							
Sulfate	**58.0**	**61.9**	NA	NA	NA	NA	7	11	
MATRIX SPIKE									
Laboratory ID:	06-175-01								
	MS		MS		MS				
Sulfate	**114**		50.0	58.0	112	70-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0619W1								
	SB		SB		SB				
Sulfate	**9.01**		10.0	NA	90	83-113	NA	NA	

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Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0613W2					
Chloride	**ND**	2.0	SM 4500-Cl E	6-13-25	6-13-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	06-140-01								
	ORIG	DUP							
Chloride	**18.5**	**18.3**	NA	NA	NA	NA	1	15	
MATRIX SPIKE									
Laboratory ID:	06-140-01								
	MS		MS		MS				
Chloride	**73.5**		50.0	18.5	110	79-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0613W2								
	SB		SB		SB				
Chloride	**53.2**		50.0	NA	106	82-123	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2025
Samples Submitted: June 12, 2025
Laboratory Reference: 2506-174
Project: 4082-039-03

TOTAL IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0613WH1					
Iron	**ND**	50	EPA 6010D	6-13-25	6-13-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	06-146-01										
	ORIG	DUP									
Iron	**17800**	**16200**	NA	NA		NA		NA	9	20	
MATRIX SPIKES											
Laboratory ID:	06-146-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**39800**	**38400**	20000	20000	17800	**110**	**103**	75-125	3	20	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

June 18, 2025

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: OSE
Project Number: 4082-039-03
COC Number: 06-174

David Baumeister:

Enclosed please find the analytical data for your OSE project.

Your sample(s) were received on Friday, June 13, 2025 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.
Sincerely,

Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

ANALYSIS REPORT

Professional Analytical Services

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Date Received: 06/13/25
Date Reported: 06/18/25

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A25F0285-01	FL358-MW5A-250611	Water		06/11/2025	06/13/2025
A25F0285-02	FL358-MW5B-250611	Water		06/11/2025	06/13/2025
A25F0285-03	FL358-MW6-250611	Water		06/11/2025	06/13/2025
A25F0285-04	FL358-GWDUP-250611	Water		06/11/2025	06/13/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/13/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

AMTEST Identification Number: A25F0285-01
Client Identification: FL358-MW5A-250611
Sampling Date: 06/11/25 21:15

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	3	mg/L		2	SM 5210B_2016	JM	06/13/2025

AMTEST Identification Number: A25F0285-02
Client Identification: FL358-MW5B-250611
Sampling Date: 06/11/25 20:25

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	ND	mg/L	U	2	SM 5210B_2016	JM	06/13/2025

AMTEST Identification Number: A25F0285-03
Client Identification: FL358-MW6-250611
Sampling Date: 06/11/25 21:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	4	mg/L		2	SM 5210B_2016	JM	06/13/2025

AMTEST Identification Number: A25F0285-04
Client Identification: FL358-GWDUP-250611
Sampling Date: 06/11/25 18:00

Biochemical Oxygen Demand

PARAMETER	RESULT	UNITS	Q	RL	METHOD	ANALYST	DATE
Biological Oxygen Demand (BOD)	4	mg/L		2	SM 5210B_2016	JM	06/13/2025

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Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com

AMTEST LABORATORIES

Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/13/25
Date Reported: 06/18/25

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Quality Control

Biochemical Oxygen Demand

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCF0298 - No Prep - WetChem										
Calibration Blank (BCF0298-CCB1)					Prepared & Analyzed: 06/13/25					
Biological Oxygen Demand (BOD)	ND	U		mg/L						
Duplicate (BCF0298-DUP1)		**Source: A25F0285-01**			Prepared & Analyzed: 06/13/25					
Biological Oxygen Demand (BOD)	2		2	mg/L		3				44

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www.amtestlab.com

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 4082-039-03

Professional Analytical Services

ANALYSIS REPORT

Date Received: 06/13/25
Date Reported: 06/18/25

Notes and Definitions

Item	Definition
U	The compound was analyzed for but was not detected (Non-detect) at or above the MRL/MDL.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

A25F0285

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 06-174

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 4082-039-03

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	FL358-MW5A-250611	6/11/25	21:15	W	1	BOD 5
02	FL358-MW5B-250611	6/11/25	20:25	W	1	BOD 5
03	FL358-MW6-250611	6/11/25	21:00	W	1	BOD 5
04	FL358-GWDUP-250611	6/11/25	18:00	W	1	BOD 5

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	6-13	10:15	1.3°C
Received by:	AmTest	6/13/25	1018	
Relinquished by:				**EDDs**
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 4082-039-03
Project Name: FL358
Project Manager: James Kohn and Tricia DeOme
Sampled by: JAK, DK, RM

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☑ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 06-174

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FL358- MW5A -2506	6/11/24	2115	W	10
2	FL358- MW5B -2506	6/11/24	2025	W	10
3	FL358- MW6 -2506	6/11/24	2100	W	10
4	FL358- GWDUP -2506	6/11/24	1800	W	10
5	FL358- RBI -2506	6/11/24	2130	W	3
6	FL358- TBI -2506	6/11/24	—	W	2
	FL358- -2506	6/ /24		W	
	FL358- -2506	6/ /24		W	
	FL358- -2506	6/ /24		W	
	FL358- -2506	6/ /24		W	

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Project VOCs (See Note 1)	Ferrous Iron (SM3500-Fe)	Project Dissolved Gasses. See Note 2	Gen Chemistry, See Note 3	% Moisture
1																		X		X	X	
2																		X		X	X	
3																		X		X	X	
4																		X		X	X	
5																		X		~~X~~	~~X~~	
6																		~~X~~ X		~~X~~	~~X~~	
																		X		X	X	
																		X		X	X	
																		X				
																		X				

	Signature	Company	Date	Time
Relinquished	Stephany Puncio	GEI	6/12/25	
Received	Stephany Puncio	Alpha Speedy	6/12/25	
Relinquished	Stephany Puncio	Alpha Speedy	6/12/25	1:45pm
Received	Stephanie Peel	OSE	6/12/25	1345pm
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Note 1: Project VOCs include PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE and vinyl chloride. Report VOCs to 0.20 ug/L

Note 2: Project Dissolved Gases include Ethane, Ethene, Methane, and Acetylene.

Note 3: TOC (SM5310), Ammonia (SM 4500 NH3), Nitrate and Nitrite (EPA 353.2) (reported individually), Sulfate (ASTM D516-11), Chloride (SM4500), Total Fe (EPA 6010D), and BOD (SM521B).

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Appendix D

Data Validation Reports

GeoEngineers

Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940, Fax: 253.383.4923 www.geoengineers.com

Project:	Sound Transit – Federal Way Link Extension Parcel FL358 (Y Pay Mor Drycleaner) June 2023 Groundwater Samples
GEI File:	4082-039-03
Date:	March 8, 2024

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of water samples collected as part of the June 2023 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Y Pay Mor Drycleaner Site located at 2210 South 320th Street in Federal Way, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review (USEPA 2020a) and Inorganic Superfund Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are measured by well-defined control limits to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method, Trip, and Rinsate Blanks
- Surrogates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
2306-079	FL358-MW5A-230607, FL358-MW5B-230607, FL358-MW6-230607, FL358-Dup-230607, FL358-MW7-230606, FL358-MW8-230607, FL358-MW9-230607, FL358-MW10-230607, FL358-MW11-230607, FL358-MW12-230606, FL358-MW13-230606, FL358-MW14-230606, FL358-RIN-230606, FL358-RIN-230607, FL358-TB-230606, FL358-TB-230607

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the water samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D;
- Total Metals by Method EPA6010D;
- Dissolved Gases by Method RSK-175;
- Nitrate and Nitrite by Method EPA353.2;
- Ammonia as Nitrogen by Method SM4500-NH3D; and
- Total Organic Carbon (TOC) by Method SM5310B

AmTest Laboratories (AmTest), located in Kirkland, Washington, served as a secondary laboratory sub-contracted through OnSite and performed analyses on the samples using the following method:

- Biochemical Oxygen Demand (BOD) by Method SM5210B

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory. The forms were appropriately signed and dated by both field collectors and laboratory personnel upon receipt.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

Method, Trip, and Rinsate Blanks

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the target analytes were detected above the reporting limits in the trip blanks.

Rinsate Blanks

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. None of the target analytes were detected above the reporting limits in the rinsate blanks.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control

limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to the samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Field Duplicates

In order to assess precision, field duplicate samples are collected and analyzed along with the reviewed sample batches. The duplicate samples are analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDG 2306-079: One field duplicate sample pair, FL358-MW6-230607 and FL358-Dup-230607, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

No analytical results were qualified. The data are acceptable for the intended use.

REFERENCES

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

GeoEngineers

Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940, Fax: 253.383.4923 www.geoengineers.com

Project:	Sound Transit – Federal Way Link Extension Parcel FL358 (Y Pay Mor Drycleaner) September 2023 Groundwater Samples
GEI File:	4082-039-03
Date:	March 8, 2024

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of water samples collected as part of the September 2023 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Y Pay Mor Drycleaner Site located at 2210 South 320th Street in Federal Way, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review (USEPA 2020a) and Inorganic Superfund Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are measured by well-defined control limits to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method, Trip, and Rinsate Blanks
- Surrogates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

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TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
2309-118	FL358-MW5A-230913, FL358-MW5B-230913, FL358-MW6-230913, FL358-DUP-230913, FL358-MW7-230912, FL358-MW8-230913, FL358-MW9-230913, FL358-MW10-230912, FL358-MW11-230912, FL358-MW12-230912, FL358-MW13-230913, FL358-MW14-230912, FL358-RIN1-230912, FL358-RIN2-230913, TB-1-230912, TB-2-230913

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the water samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D;
- Total Metals by Method EPA6010D;
- Dissolved Gases by Method RSK-175;
- Nitrate and Nitrite by Method EPA353.2;
- Ammonia as Nitrogen by Method SM4500-NH3D; and
- Total Organic Carbon (TOC) by Method SM5310B

AmTest Laboratories (AmTest), located in Kirkland, Washington, served as a secondary laboratory sub-contracted through OnSite and performed analyses on the samples using the following method:

- Biochemical Oxygen Demand (BOD) by Method SM5210B

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory. The forms were appropriately signed and dated by both field collectors and laboratory personnel upon receipt.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

Method, Trip, and Rinsate Blanks

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the target analytes were detected above the reporting limits in the trip blanks.

Rinsate Blanks

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. None of the target analytes were detected above the reporting limits in the rinsate blanks.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control

limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to the samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Field Duplicates

In order to assess precision, field duplicate samples are collected and analyzed along with the reviewed sample batches. The duplicate samples are analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDG 2309-118: One field duplicate sample pair, FL358-MW6-230913 and FL358-DUP-230913, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair, with the exception of ammonia. The positive results for this target analyte were qualified as estimated (J) in this sample pair.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values.

Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exception noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2. SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
FL358-MW6-230913	Ammonia	J	Field Duplicate Precision
FL358-DUP-230913	Ammonia	J	Field Duplicate Precision

REFERENCES

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

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GeoEngineers

Data Validation Report

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Date:	March 8, 2024

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TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
2312-112	FL358-MW7-231207, FL358-MW12-231207, FL358-MW13-231207, FL358-MW14-231207, RB1-231207, TB1-231207
2312-129	FL358-MW5A-231208, FL358-MW5B-231208, FL358-DUP-231208, FL358-MW6-231208, FL358-MW8-231208, FL358-MW9-231208, FL358-RB1-231208, FL358-TB1-231208
2312-138	FL358-MW10-231211, FL358-MW11-231211, FL358-RB1-231211, FL358-TB1-231211

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the water samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D;
- Total Metals by Method EPA6010D;
- Dissolved Gases by Method RSK-175;
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- Biochemical Oxygen Demand (BOD) by Method SM5210B

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

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The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

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Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control

limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

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A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to the samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

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Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Field Duplicates

In order to assess precision, field duplicate samples are collected and analyzed along with the reviewed sample batches. The duplicate samples are analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDG 2312-129: One field duplicate sample pair, FL358-MW5B-231208 and FL358-DUP-231208, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

No analytical results were qualified. The data are acceptable for the intended use.

REFERENCES

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

GeoEngineers

Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940 www.geoengineers.com

Project:	Sound Transit – Federal Way Link Extension Parcel FL358 (Y Pay Mor Drycleaner) March 2024 Groundwater Samples
File:	4082-039-03
Date:	April 4, 2025

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of water samples collected as part of the March 2024 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Y Pay Mor Drycleaner Site located at 2210 South 320th Street in Federal Way, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method, Trip, and Rinsate Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

LABORATORY SDG	SAMPLES VALIDATED
2403-287	FL358-MW7-240319, FL358-MW8-240319, FL358-MW12-240319, FL358-MW13-240319, FL358-RB-1-240319, FL358-TB-1-240319
2403-308	FL358-MW5A-240320, FL358-MW5B-240320, FL358-MW6-240320, FL358-DUP-240320, FL358-MW10-240320, FL358-MW14-240320, FL358-RB-240320, FL358-TB-240320
2403-309	FL358-MW09-240321, FL358-MW11-240321, FL358-RB-240321, FL358-TB-240321

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analyses on the water samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D or SW8260D-SIM;
- Total Metals by Method SW6010D;
- Dissolved Gases by Method RSK-175;
- Nitrate and Nitrite by Method EPA353.2;
- Sulfate by Method ASTMD516-11;
- Ammonia as Nitrogen by Method SM4500-NH3D; and
- Total Organic Carbon (TOC) by Method SM5310B

AmTest Laboratories (AmTest), located in Kirkland, Washington, served as a secondary laboratory sub-contracted through OnSite and performed analyses on select samples using the following method:

- Biochemical Oxygen Demand (BOD) by Method SM5210B

Fremont Analytical, Inc. (Fremont), located in Seattle, Washington, served as a secondary laboratory sub-contracted through OnSite and performed analyses on select samples using the following method:

- Ferrous Iron by Method SM3500-FeB

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

METHOD, TRIP, AND RINSATE BLANKS

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blanks.

Rinsate Blanks

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. None of the target analytes were detected above the reporting limits in the rinsate blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and

analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

FIELD DUPLICATES

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDG 2403-308: One field duplicate sample pair, FL358-MW6-240320 and FL358-DUP-240320, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

No analytical results were qualified. The data are acceptable for the intended use.

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

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GeoEngineers

Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940 www.geoengineers.com

Project:	Sound Transit – Federal Way Link Extension Parcel FL358 (Y Pay Mor Drycleaner) June 2024 Groundwater Samples
File:	4082-039-03
Date:	April 7, 2025

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of water samples collected as part of the June 2024 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Y Pay Mor Drycleaner Site located at 2210 South 320th Street in Federal Way, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method, Trip, and Rinsate Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

LABORATORY SDG	SAMPLES VALIDATED
2406-258	FL358-MW7-240619, FL358-MW11-240619, FL358-MW12-240619, FL358-MW13-240619, FL358-RB-240619, FL358-TB-240619
2406-281	FL358-MW5A-240620, FL358-MW5B-240620, FL358-MW6-240620, FL358-MWDUP-240620, FL358-MW8-240620, FL358-MW9-240620, FL358-MW10-240620, FL358-MW14-240620, FL358-RB-240620, FL358-TB-240620

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analyses on the water samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D or SW8260D-SIM;
- Total Metals by Method SW6010D;
- Dissolved Gases by Method RSK-175;
- Nitrate and Nitrite by Method EPA353.2;
- Sulfate by Method ASTMD516-11;
- Chloride by Method SM4500-ClE;
- Ammonia as Nitrogen by Method SM4500-NH3D; and
- Total Organic Carbon (TOC) by Method SM5310B

AmTest Laboratories (AmTest), located in Kirkland, Washington, served as a secondary laboratory sub-contracted through OnSite and performed analyses on select samples using the following method:

- Biochemical Oxygen Demand (BOD) by Method SM5210B

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exception noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SDG 2406-281: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded in Sample FL358-MW14-240620. The reporting limit for this target analyte was qualified as estimated (UJ) in this sample.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

METHOD, TRIP, AND RINSATE BLANKS

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blanks.

Rinsate Blanks

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. None of the target analytes were detected above the reporting limits in the rinsate blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and

analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

FIELD DUPLICATES

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDG 2406-281: One field duplicate sample pair, FL358-MW6-240620 and FL358-MWDUP-240620, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair, with the exception of nitrate. The positive result and reporting limit for this target analyte were qualified as estimated (J and UJ, accordingly) in this sample pair.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2. SUMMARY OF QUALIFIED SAMPLES

SAMPLE ID	ANALYTE	QUALIFIER	REASON
FL358-MW6-240620	Nitrate	UJ	Field Duplicate Precision
FL358-MWDUP-240620	Nitrate	J	Field Duplicate Precision
FL358 MW14-240620	Nitrate	UJ	Holding Time

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

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GeoEngineers

Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940 www.geoengineers.com

Project:	Sound Transit – Federal Way Link Extension Parcel FL358 (Y Pay Mor Drycleaner) September 2024 Groundwater Samples
File:	4082-039-03
Date:	April 7, 2025

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of water samples collected as part of the September 2024 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Y Pay Mor Drycleaner Site located at 2210 South 320th Street in Federal Way, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method, Trip, and Rinsate Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

LABORATORY SDG	SAMPLES VALIDATED
2409-217	FL358-MW9-240917, FL358-MW10-240917, FL358-RB1-240917, FL358-TB1-240917
2409-240	FL358-MW7-240818, FL358-MW8-240818, FL358-MW12-240818, FL358-MW13-240818, FL358-MW14-240818, FL358-MW16-240818, FL358-RB1-240818, FL358-TB1-240818
2409-255	FL358-MW5A-240919, FL358-MW5B-240919, FL358-MW6-240919, FL358-DUP-240919, FL358-MW11-240919, FL358-MW15-240919, FL358-MW18-240919, FL358-MW19-240919, FL358-MW22-240919, FL358-RB1-240919, FL358-TB1-240919
2409-257	FL358-MW17-240920, FL358-MW20-240920, FL358-MW21-240920, FL358-RB1-240920, FL358-TB1-240920

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analyses on the water samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D or SW8260D-SIM;
- Total Metals by Method SW6010D;
- Dissolved Gases by Method RSK-175;
- Nitrate and Nitrite by Method EPA353.2;
- Sulfate by Method ASTMD516-11;
- Chloride by Method SM4500-ClE;
- Ammonia as Nitrogen by Method SM4500-NH3D; and
- Total Organic Carbon (TOC) by Method SM5310B

AmTest Laboratories (AmTest), located in Kirkland, Washington, served as a secondary laboratory sub-contracted through OnSite and performed analyses on select samples using the following method:

- Biochemical Oxygen Demand (BOD) by Method SM5210B

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

METHOD, TRIP, AND RINSATE BLANKS

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blanks.

Rinsate Blanks

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. None of the target analytes were detected above the reporting limits in the rinsate blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and

analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

FIELD DUPLICATES

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDG 2409-255: One field duplicate sample pair, FL358-MW6-240919 and FL358-DUP-240919, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair, with the exception of ammonia as nitrogen. The positive result and reporting limit for this target analyte were qualified as estimated (J and UJ, accordingly) in this sample pair.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2. SUMMARY OF QUALIFIED SAMPLES

SAMPLE ID	ANALYTE	QUALIFIER	REASON
FL358-MW6-240919	Ammonia as nitrogen	J	Field Duplicate Precision
FL358-DUP-240919	Ammonia as nitrogen	UJ	Field Duplicate Precision

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

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GeoEngineers

Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940 www.geoengineers.com

Project:	Sound Transit – Federal Way Link Extension Parcel FL358 (Y Pay Mor Drycleaner) September 2024 Soil Samples
File:	4082-039-05
Date:	April 8, 2025

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of soil samples collected as part of the September 2024 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Y Pay Mor Drycleaner Site located at 2210 South 320th Street in Federal Way, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method and Trip Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates

Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

LABORATORY SDG	SAMPLES VALIDATED
2409-135	FL358-MW17-27.5-28, FL358-MW17-32.5-34, FL358-MW17-35-36, FL358-MW17-40-41.5, FL358-TB1-09112024
2409-164	FL358-MW15_27.5-29, FL358-MW15_30-31.5, FL358-MW15_35-36.5, FL358-MW15_40-41.5, FL358-MW18_20-21.5, FL358-MW18_25-26.5, FL358-MW18_27.5-29, FL358-MW18_30-31.5, FL358-MW18_35-36.5, FL358-MW18_42.5-44, FL358-TB-1-091224
2409-258	IDW-SOIL-1, IDW-SOIL-2, IDW-WATER-1, IDW-WATER-2

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analyses on the samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D or SW8260D-SIM;
- Total Metals by Method SW6010D or SW7471B; and
- pH by Method SW9045D

AmTest Laboratories (AmTest), located in Kirkland, Washington, served as a secondary laboratory sub-contracted through OnSite and performed analyses on select samples using the following methods:

- Grain Size by Method ASTM-D422;
- Bulk Density by Method SM2710; and
- Total Organic Carbon (TOC) by Method SW9060A

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exception noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SDG 2409-164: (pH) The 24-hour holding time for pH analysis was exceeded in Samples FL358-MW18_25-26.5, FL358-MW18_35-36.5, and FL358-MW18_42.5-44. The positive results for this target analyte were qualified as estimated (J) in these samples.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

METHOD AND TRIP BLANKS

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2. SUMMARY OF QUALIFIED SAMPLES

SAMPLE ID	ANALYTE	QUALIFIER	REASON
FL358-MW18_25 26.5	pH	J	Holding Time
FL358-MW18_35-36.5	pH	J	Holding Time
FL358-MW18_42.5-44	pH	J	Holding Time

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

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GeoEngineers

Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940 www.geoengineers.com

Project:	Sound Transit – Federal Way Link Extension Parcel FL358 (Y Pay Mor Drycleaner) December 2024 Groundwater Samples
File:	4082-039-03
Date:	April 7, 2025

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of water samples collected as part of the December 2024 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Y Pay Mor Drycleaner Site located at 2210 South 320th Street in Federal Way, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method, Trip, and Rinsate Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

LABORATORY SDG	SAMPLES VALIDATED
2412-342	FL358-MW8-241219, FL358-MW10-241220, FL358-MW19-241219, FL358-RB1-241220
2412-358	FL358-MW6-241223, FL358-MW9-241223, FL358-MW14-241223, FL358-RB1-241223
2412-377	FL358-MW16-241226, FL358-DUP-241226, FL358-MW17-241226, FL358-MW23-241226, FL358-MW26-241226, FL358-MW27-241226, FL358-RB-241226, FL358-TB-241226
2412-417	FL358-MW5A-241231, FL358-DUP-241231, FL358-MW5B-241231, FL358-MW7-241230, FL358-MW12-241230, FL358-MW13-241230, FL358-MW15-241230, FL358-MW20-241231, FL358-MW21-241230, FL358-MW22-241230, FL358-MW24-241231, FL358-MW25-241230, FL358-RB-241230, FL358-RB-241231, FL358-TB-241231

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analyses on the water samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D or SW8260D-SIM;
- Total Metals by Method SW6010D;
- Dissolved Gases by Method RSK-175;
- Nitrate and Nitrite by Method EPA353.2;
- Sulfate by Method ASTMD516-11;
- Chloride by Method SM4500-ClE;
- Ammonia as Nitrogen by Method SM4500-NH3D; and
- Total Organic Carbon (TOC) by Method SM5310B

AmTest Laboratories (AmTest), located in Kirkland, Washington, served as a secondary laboratory sub-contracted through OnSite and performed analyses on select samples using the following method:

- Biochemical Oxygen Demand (BOD) by Method SM5210B

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

METHOD, TRIP, AND RINSATE BLANKS

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blanks.

Rinsate Blanks

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. None of the target analytes were detected above the reporting limits in the rinsate blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

SDG 2412-377: (BOD) The laboratory performed a laboratory duplicate sample set with a QC outlier; however, it was performed on a sample that was not representative of the field samples collected by GeoEngineers. For this reason, no action was required.

FIELD DUPLICATES

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent

samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDG 2412-377: One field duplicate sample pair, FL358-MW16-241226 and FL358-DUP-241226, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair, with the exception of ammonia as nitrogen, cis-1,2-Dichloroethene, total iron, methane, tetrachloroethene, trichloroethene, and vinyl chloride. The positive results for these target analytes were qualified as estimated (J) in this sample pair.

SDG 2412-417: One field duplicate sample pair, FL358-MW5A-241231 and FL358-DUP-241231, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair, with the exception of methane, nitrate, and sulfate. The positive results for these target analytes were qualified as estimated (J) in this sample pair.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2. SUMMARY OF QUALIFIED SAMPLES

SAMPLE ID	ANALYTE	QUALIFIER	REASON
FL358-MW5A-241231	Methane	J	Field Duplicate Precision
	Nitrate	J	Field Duplicate Precision
	Sulfate	J	Field Duplicate Precision
FL358-DUP-241231	Methane	J	Field Duplicate Precision
	Nitrate	J	Field Duplicate Precision
	Sulfate	J	Field Duplicate Precision
FL358-MW16-241226	Ammonia as nitrogen	J	Field Duplicate Precision
	cis-1,2-Dichloroethene	J	Field Duplicate Precision
	Total iron	J	Field Duplicate Precision
	Methane	J	Field Duplicate Precision
	Tetrachloroethene	J	Field Duplicate Precision
	Trichloroethene	J	Field Duplicate Precision
	Vinyl chloride	J	Field Duplicate Precision

FL358-DUP-241226	Ammonia as nitrogen	J	Field Duplicate Precision
	cis-1,2-Dichloroethene	J	Field Duplicate Precision
	Total iron	J	Field Duplicate Precision
	Methane	J	Field Duplicate Precision
	Tetrachloroethene	J	Field Duplicate Precision
	Trichloroethene	J	Field Duplicate Precision
	Vinyl chloride	J	Field Duplicate Precision

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

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GeoEngineers

Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940 www.geoengineers.com

Project:	Sound Transit – Federal Way Link Extension Parcel FL358 (Y Pay Mor Drycleaner) December 2024 Soil Samples
File:	4082-039-06
Date:	April 8, 2025

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of soil samples collected as part of the December 2024 sampling event, and the associated laboratory quality control (QC) samples. The samples were obtained from the Y Pay Mor Drycleaner Site located at 2210 South 320th Street in Federal Way, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates

Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

LABORATORY SDG	SAMPLES VALIDATED
2412-292	FL358-MW25_24-25, FL358-MW25_34-35, FL358-MW25_37-37.5, FL358-MW26_24-25, FL358-MW26_37-37.5, FL358-MW26_39-40, FL358-MW27_24-25, FL358-MW27_27-27.5, FL358-MW27_32-32.5
2412-292B	FL358-MW25,26,27 Comp
2412-341	FL358-MW23-24-25, FL358-MW23-29-30, FL358-MW23-33-34, FL358-MW24-23-24, FL358-MW24-29.5-30, FL358-MW24-34-35
2412-341B	FL358-MW23,24 Comp

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analyses on the samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D; and
- Total Metals by Method SW6010D or SW7471B

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exceptions noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SDG 2412-292B: (Total Metals) The 28-day holding time for total mercury analysis was exceeded in Sample FL358-MW25,26,27 Comp. The reporting limit for this target analyte was qualified as estimated (UJ) in this sample.

SDG 2412-341: (VOCs) The 14-day holding time for VOC analysis was exceeded in Samples FL358-MW23-24-25, FL358-MW23-29-30, FL358-MW23-33-34, FL358-MW24-23-24, FL358-MW24-29.5-30, and FL358-MW24-34-35. The reporting limits for the VOC target analytes were qualified as estimated (UJ) in these samples.

SDG 2412-341B: (Total Metals) The 28-day holding time for total mercury analysis was exceeded in Sample FL358-MW23,24 Comp. The reporting limit for this target analyte was qualified as estimated (UJ) in this sample.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

METHOD BLANKS

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDGs 2412-292B and 2412-341B: (Total Metals) The laboratory performed an MS/MSD sample set with QC outliers; however, it was performed on a sample that was not representative of the field samples collected by GeoEngineers. For this reason, no action was required.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

SDGs 2412-292B and 2412-341B: (Total Metals) The laboratory performed a laboratory duplicate sample set with a QC outlier; however, it was performed on a sample that was not representative of the field samples collected by GeoEngineers. For this reason, no action was required.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2. SUMMARY OF QUALIFIED SAMPLES

SAMPLE ID	ANALYTE	QUALIFIER	REASON
FL358-MW23-24-25	All VOC target analytes	UJ	Holding Time
FL358-MW23-29-30	All VOC target analytes	UJ	Holding Time
FL358-MW23-33-34	All VOC target analytes	UJ	Holding Time
FL358-MW24-23-24	All VOC target analytes	UJ	Holding Time
FL358-MW24-29.5-30	All VOC target analytes	UJ	Holding Time

FL358-MW24-34-35	All VOC target analytes	UJ	Holding Time
FL358-MW23,24 Comp	Total mercury	UJ	Holding Time
FL358-MW25,26,27 Comp	Total mercury	UJ	Holding Time

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

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GeoEngineers

Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940 www.geoengineers.com

Project:	Sound Transit – Federal Way Link Extension Parcel FL358 (Y Pay Mor Drycleaner) February 2025 Soil Samples
File:	4082-039-06
Date:	April 8, 2025

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of soil samples collected as part of the February 2025 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Y Pay Mor Drycleaner Site located at 2210 South 320th Street in Federal Way, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method, Trip, and Rinsate Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

LABORATORY SDG	SAMPLES VALIDATED
2502-317	FL358-MW29_10-11, FL358-MW29_15-16, FL358-MW29_20-21, FL358-MW29_25-26, FL358-MW29_29-30
2502-340	FL358-MW28_25-26, FL358-MW28_30-31, FL358-MW30_19-20, FL358-MW30_DUP, FL358-MW30_30-31
2502-362	FL358-GEI1_RB, FL358-GEI2_RB, Trip Blank
2502-376	COMP-1-250228

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analyses on the samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D or SW8260D-SIM; and
- Total Metals by Method SW6010D or SW7471B

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SDG 2502-376: (VOCs) The laboratory noted that Sample COMP-1-250228 was analyzed from a four-ounce jar. The reporting limits for the VOC target analytes were qualified as estimated (UJ) in this sample due to possible loss of analyte concentration.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

METHOD, TRIP, AND RINSATE BLANKS

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blank.

Rinsate Blanks

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. None of the target analytes were detected above the reporting limits in the rinsate blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG 2502-376: (Total Metals) The laboratory performed an MS/MSD sample set with QC outliers; however, it was performed on a sample that was not representative of the field samples collected by GeoEngineers. For this reason, no action was required.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

SDG 2502-376: (Total Metals) The laboratory performed a laboratory duplicate sample set with a QC outlier; however, it was performed on a sample that was not representative of the field samples collected by GeoEngineers. For this reason, no action was required.

FIELD DUPLICATES

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for soil samples is 50 percent.

SDG 2502-340: One field duplicate sample pair, FL358-MW30_19-20 and FL358-MW30_DUP, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery

values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

The data are acceptable for the intended use, with the following qualification listed below in Table 2.

TABLE 2. SUMMARY OF QUALIFIED SAMPLES

SAMPLE ID	ANALYTE	QUALIFIER	REASON
COMP-1-250228	All VOC target analytes	UJ	Sample Preservation

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

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GeoEngineers

Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940 www.geoengineers.com

Project:	Sound Transit – Federal Way Link Extension Parcel FL358 (Y Pay Mor Drycleaner) March 2025 Groundwater Samples
File:	4082-039-03
Date:	April 8, 2025

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of water samples collected as part of the March 2025 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Y Pay Mor Drycleaner Site located at 2210 South 320th Street in Federal Way, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method, Trip, and Rinsate Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

LABORATORY SDG	SAMPLES VALIDATED
2503-025	FL358-MW19-250303, FL358-MW21-250303, FL358-MW22-250303, FL358-MW23-250303, FL358-MW24-250303, FL358-MW25-250303, FL358-MW27-250303, FL358-MW29-250303, FL358-RB-250303, FL358-TB1-250303
2503-026	FL358-MW13-250304, FL358-MW15-250304, FL358-MW20-250304, FL358-MW30-250304, FL358-TB2-250304
2503-050	FL358-MW7-250305, FL358-MW8-250305, FL358-MW9-250305, FL358-MW10-250305, FL358-MW14-250305, FL358-DUP-250305, FL358-RB-250305, FL358-TB3-250305, FL358-TB4-250305, FL358-TB5-250305
2503-051	FL358-MW5A-250305, FL358-MW5B-250305, FL358-MW6-250305, FL358-MW12-250304, FL358-MW16-250304, FL358-DUP-250304, FL358-MW17-250304, FL358-MW26-250304, FL358-MW28-250304, FL358-RB-250304
2503-098	FL358-MW11-250307, TB6-250307

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analyses on the water samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D or SW8260D-SIM;
- Total Metals by Method SW6010D;
- Dissolved Gases by Method RSK-175;
- Nitrate and Nitrite by Method EPA353.2;
- Sulfate by Method ASTMD516-11;
- Chloride by Method SM4500-ClE;
- Ammonia as Nitrogen by Method SM4500-NH3D; and
- Total Organic Carbon (TOC) by Method SM5310B

AmTest Laboratories (AmTest), located in Kirkland, Washington, served as a secondary laboratory sub-contracted through OnSite and performed analyses on select samples using the following method:

- Biochemical Oxygen Demand (BOD) by Method SM5210B

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

METHOD, TRIP, AND RINSATE BLANKS

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blanks.

Rinsate Blanks

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. None of the target analytes were detected above the reporting limits in the rinsate blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG 2503-025: (Dissolved Gases) The percent recoveries for acetylene were greater than the control limits in the LCS/LCSD extracted on 3/10/2025. There were no positive results for this target analyte in the associated field samples; therefore, no qualifications were required.

SDG 2503-026: (Dissolved Gases) The percent recoveries for acetylene were greater than the control limits in the LCS/LCSD extracted on 3/10/2025. There were no positive results for this target analyte in the associated field samples; therefore, no qualifications were required.

SDG 2503-050: (Dissolved Gases) The percent recovery for acetylene was greater than the control limits in the LCS extracted on 3/11/2025; however, the percent recovery for this target analyte was within the control limits in the corresponding LCSD. No action was required for this outlier.

SDG 2503-098: (Dissolved Gases) The percent recoveries for acetylene were greater than the control limits in the LCS/LCSD extracted on 3/10/2025. There were no positive results for this target analyte in the associated field sample; therefore, no qualification was required.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

FIELD DUPLICATES

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDGs 2503-050 and 2503-051: One field duplicate sample pair, FL358-MW5A-250305 and FL358-DUP-250305, was submitted with these SDGs. The precision criteria for the target analytes were met for this sample pair, with the exception of ammonia as nitrogen and sulfate. The positive results for these target analytes were qualified as estimated (J) in this sample pair.

SDG 2503-051: One field duplicate sample pair, FL358-MW16-250304 and FL358-DUP-250304, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2. SUMMARY OF QUALIFIED SAMPLES

SAMPLE ID	ANALYTE	QUALIFIER	REASON
FL358-MW5A-250305	Ammonia as nitrogen	J	Field Duplicate Precision
	Sulfate	J	Field Duplicate Precision
FL358-DUP-250305	Ammonia as nitrogen	J	Field Duplicate Precision
	Sulfate	J	Field Duplicate Precision

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

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GeoEngineers

Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940 www.geoengineers.com

Project:	Sound Transit – Federal Way Link Extension Parcel FL358 (Y Pay Mor Drycleaner) June 2025 Groundwater Samples
File:	4082-039-03
Date:	July 8, 2025

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of water samples collected as part of the June 2025 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Y Pay Mor Drycleaner Site located at 2210 South 320th Street in Federal Way, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method, Trip, and Rinsate Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

LABORATORY SDG	SAMPLES VALIDATED
2506-133	FL358-MW10-250609, FL358-MW13-250609, FL358-MW22-250609, FL358-MW23-250609, FL358-MW24-250609, FL358-MW25-250609, FL358-MW28-250609, FL358-MW29-250609, FL358-MW30-250609, FL358-RB1-250609, FL358-TB1-250609
2506-140	FL358-MW7-250610, FL358-MW8-250610, FL358-MW9-250610, FL358-MW11-250610, FL358-MW12-250610, FL358-MW14-250610, FL358-MW15-250609, FL358-MW16-250610, FL358-MWDUP-250610, FL358-MW17-250610, FL358-MW19-250609, FL358-MW20-250610, FL358-MW21-250610, FL358-MW26-250610, FL358-MW27-250609, FL358-RB1-250610, FL358-TB1-250610
2506-174	FL358-MW5A-250611, FL358-MW5B-250611, FL358-MW6-250611, FL358-GWDUP-250611, FL358-RB1-250611, FL358-TB1-250611

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analyses on the water samples using one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method SW8260D or SW8260D-SIM;
- Total Metals by Method SW6010D;
- Dissolved Gases by Method RSK-175;
- Nitrate and Nitrite by Method EPA353.2;
- Sulfate by Method ASTMD516-16;
- Chloride by Method SM4500-ClE;
- Ammonia as Nitrogen by Method SM4500-NH3D; and
- Total Organic Carbon (TOC) by Method SM5310B

AmTest Laboratories (AmTest), located in Kirkland, Washington, served as a secondary laboratory sub-contracted through OnSite and performed analyses on select samples using the following method:

- Biochemical Oxygen Demand (BOD) by Method SM5210B-2016

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SDG 2506-140: (VOCs) The laboratory noted that Sample FL358-TB1-250610 was analyzed from a sample vial with headspace. The reporting limits for the VOC target analytes were qualified as estimated (UJ) in this sample, due to possible loss of analyte concentration.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

METHOD, TRIP, AND RINSATE BLANKS

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blanks.

Rinsate Blanks

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. None of the target analytes were detected above the reporting limits in the rinsate blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG 2506-133: (Dissolved Gases) The percent recoveries for acetylene were greater than the control limits in the LCS/LCSD extracted on 6/13/2025. There were no positive results for this target analyte in the associated field samples; therefore, no qualifications were required.

SDG 2506-140: (Dissolved Gases) The percent recoveries for acetylene were greater than the control limits in the LCS/LCSD extracted on 6/18/2025. There were no positive results for this target analyte in the associated field samples; therefore, no qualifications were required.

SDG 2506-174: (Dissolved Gases) The percent recoveries for acetylene were greater than the control limits in the LCS/LCSD extracted on 6/13/2025. There were no positive results for this target analyte in the associated field samples; therefore, no qualifications were required.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

FIELD DUPLICATES

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDG 2506-140: One field duplicate sample pair, FL358-MW16-250610 and FL358-MWDUP-250610, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair, with the exception of ammonia as nitrogen. The positive results for this target analyte were qualified as estimated (J) in this sample pair.

SDG 2506-174: One field duplicate sample pair, FL358-MW6-250611 and FL358-GWDUP-250611, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exception noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2. SUMMARY OF QUALIFIED SAMPLES

SAMPLE ID	ANALYTE	QUALIFIER	REASON
FL358-MW16-250610	Ammonia as Nitrogen	J	Field Duplicate Precision
FL358-MWDUP-250610	Ammonia as Nitrogen	J	Field Duplicate Precision
FL358-TB1-250610	All VOC target analytes	UJ	Sample Preservation

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

Appendix E

2025 Hydraulic Conductivity Methodology and Analysis

APPENDIX E
2025 Hydraulic Conductivity Field Testing Methodology and Analysis

SLUG TESTING

Monitoring wells FL358-MW16 and FL358-MW20 were tested to measure the horizontal hydraulic conductivity of the soil deposits in which each well is completed. Slug testing of the two wells were performed on July 2, 2025. Hydraulic conductivity was calculated using the Bouwer and Rice (1976) method. Plots of two representative slug test responses and type curves analyzed per well are presented in Figures E-1 through E-2. Up to three rising and three falling head tests were conducted for each well and the average value is reported as the hydraulic conductivity in Table E-1 below.

Field Procedures

Each slug test was performed in two stages, resulting in a falling head stage, followed by a rising head stage:

1. **Falling Head Stage**. A slug (weighted 5-foot length of sealed PVC casing) of known volume was rapidly lowered into the well, causing displacement of the water level, which rose almost instantaneously above its initial level, and the water level in the well was monitored until it returned (fell) to the approximate initial water level.
2. **Rising Head Stage.** The slug was then rapidly removed, causing the water level to fall instantaneously below its initial level and the water level in the well was monitored until it returned (rose) to the approximate initial water level.

Groundwater levels were measured as hydrostatic pressures by using an unvented 30-psi PT2X vented water-level sensor comprising a piezoelectric pressure transducer and combined datalogger. The datalogger was programmed to record hydrostatic submergence pressure 8-per-second intervals, supplemented with manual electronic water-level meter readings before, during, and after each aquifer slug test.

Data Interpretation

Monitoring well FL358-MW16 exhibited an over-damped response typical of low permeable formations where the well screen is fully submerged in an unconfined aquifer. The representative rising and falling hydraulic head responses during each test (as shown on Figures E-1) show gradual equilibration back to static water levels, which reflects slow drainage from the formation around the well due to the low permeability (Bouwer 1989).

The slug test response at monitoring well FL358-MW20 exhibits a steep initial decline followed by a change in slope, indicating a two-stage recovery. This behavior suggests the presence of a more transmissive zone near the well, with hydraulic conductivity estimated at approximately 3.4 ft/day (Figure E-2). The shift in slope may reflect heterogeneity in the aquifer or delayed drainage from less permeable surrounding materials.

Data Analysis

The log-linear slope of each rising or falling head test was determined from the data plots (Figures E-1 through E-2) and used (in the Bouwer & Rice [1976] method analysis) to calculate the hydraulic conductivity of the formation below the water table at each well, assuming unconfined aquifer conditions.

The bottom of the aquifer was assumed to be between 37 feet in FL358-MW16 and 38 feet in FL358-MW20 feet below ground surface for each well; the depth to the bottom of the aquifer was selected based on the depth to the dense glacial till that represents the confining unit. The dense glacial till typically has a significantly lower hydraulic conductivity than the silty sand and gravel mixtures across the well screen depth intervals and interpreted as an aquitard.

Results

Representative graphs of the slug test analyses are shown on Figures E-1 through E-2. The average hydraulic conductivities based on the slug testing are shown below in Table E-1.

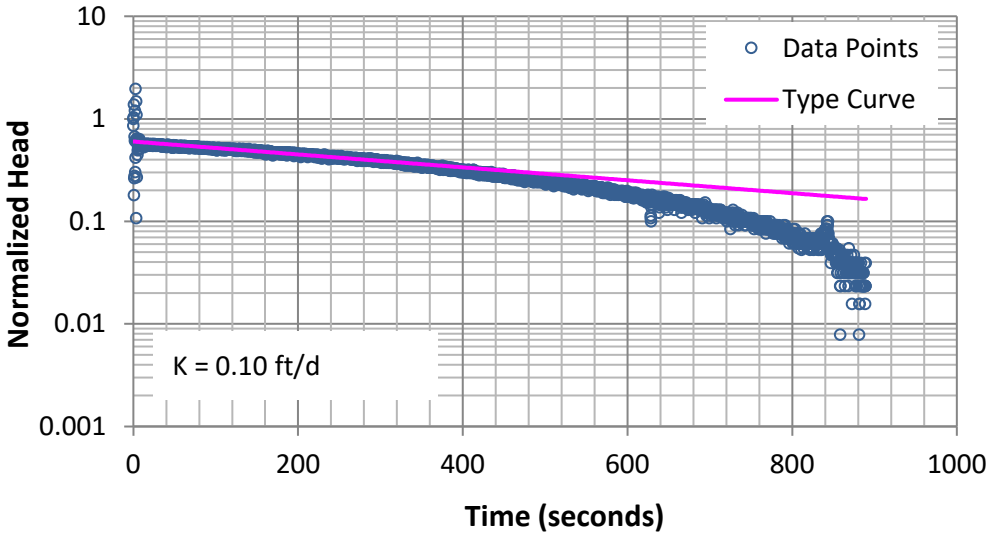
TABLE E-1: SLUG TEST RESULTS

WELL ID	NUMBER OF TESTS	APPROXIMATE SATURATED THICKNESS	RANGE OF HYDRAULIC CONDUCTIVITY	AVERAGE HYDRAULIC CONDUCTIVITY	
		FEET	FEET PER DAY	FEET PER DAY	CENTIMETERS/SECOND
FL358-MW16	3	22	0.08 to 0.10	0.1	3.5×10^{-5}
FL358-MW20	3	14	2.56 to 2.77	2.7	9.4×10^{-4}

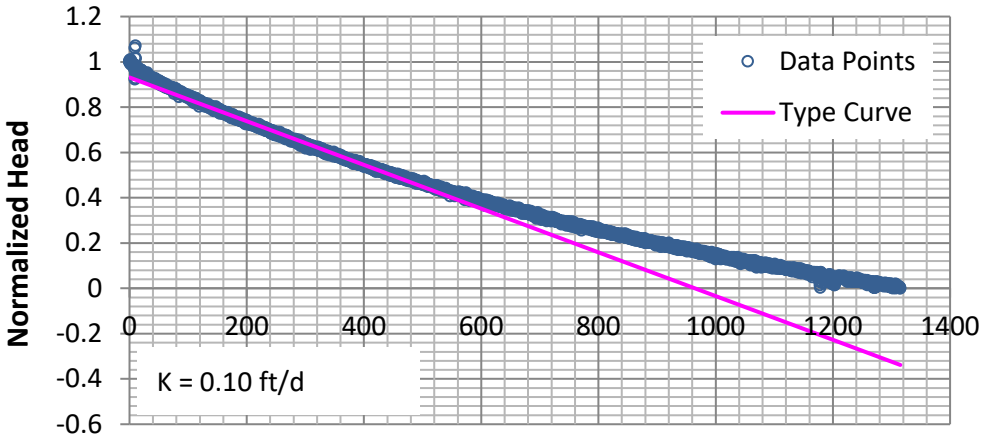
References

Bouwer, H., and Rice, R.C., 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells. Water Resources Research, 12 (3), 423-428.

Example of Falling Head



Example of Rising Head



Notes:

1. Water level response was measured with an unvented 0-30psi INW PT2X pressure transducer recording 8 times per second
2. Aquifer is assumed to be unconfined
3. Saturated thickness is assumed to be approximately 15.05 feet
4. Well is screened from 25 to 45 feet below ground surface
5. Static water level was approximately 21.09 feet below ground surface

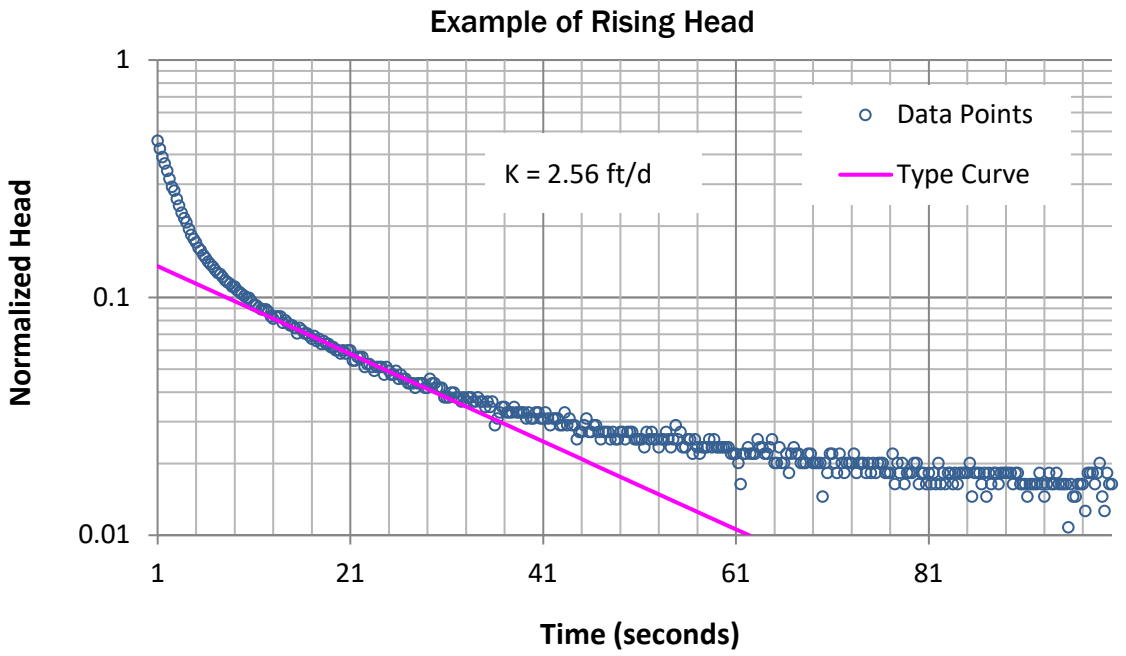
Aquifer Slug Test at FL358-MW16

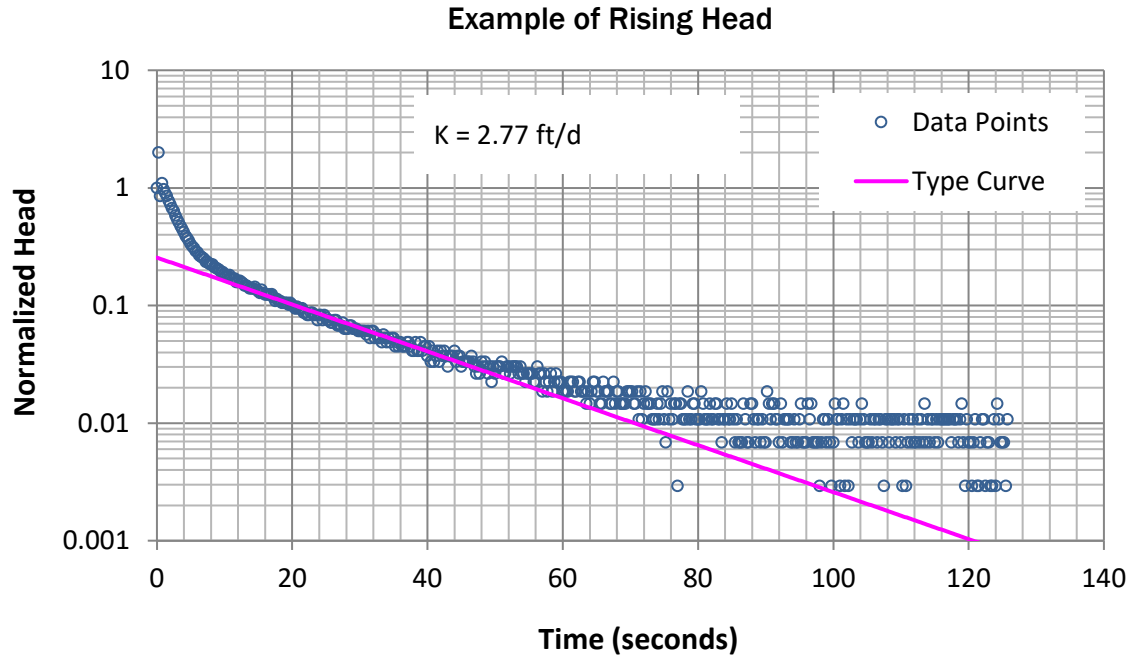
Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure E-1

04082-039-03 Date Exported: 08/25/2023





Notes:

1. Water level response was measured with an unvented 0-30psi INW PT2X pressure transducer recording 8 times per second
2. Aquifer is assumed to be unconfined
3. Saturated thickness is assumed to be approximately 13.78 feet
4. Well is screened from 18 to 38 feet below ground surface
5. Static water level was approximately 24.22 feet below ground surface

Aquifer Slug Test at FL358-MW20

Updated Remedial Investigation Addendum No. 1
Y Pay Mor Site
Federal Way, Washington

GeoEngineers

Figure E-2

04082-039-03 Date Exported: 08/25/2023

Appendix F

Terrestrial Ecological Evaluation Form

Voluntary Cleanup Program

Washington State Department of Ecology
Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Terrestrial-ecological-evaluation.

Step 1: IDENTIFY HAZARDOUS WASTE SITE	
Please identify below the hazardous waste site for which you are documenting an evaluation.	
Facility/Site Name: Y Pay Mor Cleaners	
Facility/Site Address: 2210 320th Street, Federal Way, WA 98003	
Facility/Site No: 2518	VCP Project No.: NW3265

Step 2: IDENTIFY EVALUATOR		
Please identify below the person who conducted the evaluation and their contact information.		
Name: Neil Morton		Title: Senior Scientist
Organization: GeoEngineers		
Mailing address: 2101 4th Ave, Suite 950, Seattle, WA 98121		
City: Seattle	State: WA	Zip code: 98121
Phone: (206)419-4290	Fax:	E-mail: nmorton@geoengineers.com

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

1. Does the Site qualify for an exclusion from further evaluation?

☒ Yes *If you answered **"YES,"** then answer **Question 2**.*

☐ No or Unknown *If you answered **"NO" or "UNKNOWN,"** then skip to **Step 3B** of this form.*

2. What is the basis for the exclusion? *Check all that apply. Then skip to **Step 4** of this form.*

Point of Compliance: WAC 173-340-7491(1)(a)

☒ All soil contamination is, or will be,* at least 15 feet below the surface.

☐ All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

☐ All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

☐ There is less than 0.25 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.

☒ For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

☐ Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

[±] "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

[#] "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

☐ Yes *If you answered **"YES,"** then answer **Question 2** below.*

☐ No or Unknown *If you answered **"NO"** or **"UNKNOWN,"** then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

☐ Yes *If you answered **"YES,"** then answer **Question 3** below.*

☐ No *If you answered **"NO,"** then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

☐ Yes *If you answered **"YES,"** then answer **Question 4** below.*

☐ No *If you answered **"NO,"** then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

☐ Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*

☐ Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? *Check all that apply. Then skip to **Step 4** of this form.*

Exposure Analysis: WAC 173-340-7492(2)(a)

☐ Area of soil contamination at the Site is not more than 350 square feet.

☐ Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

☐ No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. *See* WAC 173-340-7493(1)(c).

1. Was there a problem? *See* WAC 173-340-7493(2).

☐ Yes *If you answered **"YES,"** then answer **Question 2** below.*

☐ No *If you answered **"NO,"** then identify the reason here and then skip to **Question 5** below:*

- ☐ No issues were identified during the problem formulation step.
- ☐ While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? *See* WAC 173-340-7493(3).

- ☐ Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- ☐ Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use?
Check all that apply. See WAC 173-340-7493(3).

- ☐ Literature surveys.
- ☐ Soil bioassays.
- ☐ Wildlife exposure model.
- ☐ Biomarkers.
- ☐ Site-specific field studies.
- ☐ Weight of evidence.
- ☐ Other methods approved by Ecology. If so, please specify:

4. What was the result of those evaluations?

- ☐ Confirmed there was no problem.
- ☐ Confirmed there was a problem and established site-specific cleanup levels.

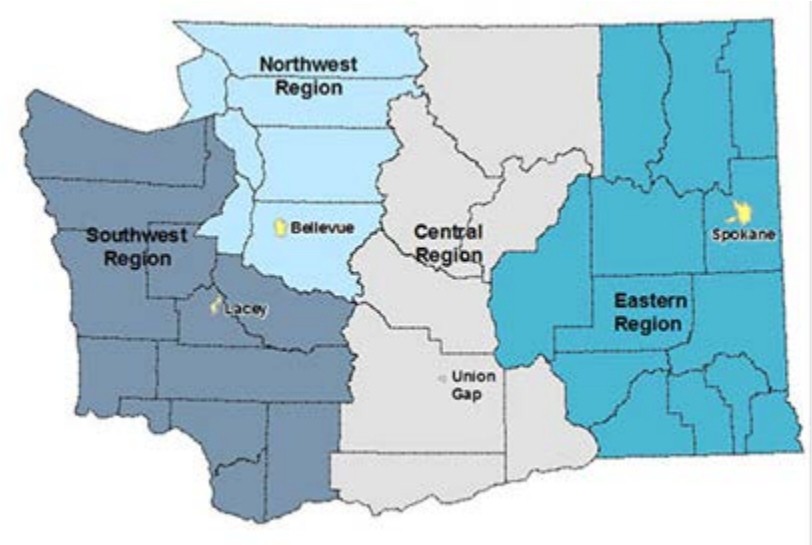
5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?

☐ Yes If so, please identify the Ecology staff who approved those steps:

☐ No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



Northwest Region: Attn: VCP Coordinator 3190 160th Ave. SE Bellevue, WA 98008-5452	**Central Region:** Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009
Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775	**Eastern Region:** Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295

If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call 877-833-6341.



Notes:

1. Data Source: Aerial image from Google Earth, image taken in June 2025.
2. This figure is for informational purposes. It is intended to assist in showing features discussed in an attached report. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is store by GeoEngineers, Inc. and will serve as the official record of this communication.

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TEE Exemption Analysis

Former Y Pay Mor Dry Cleaners
2210 S 320th St, Federal Way, WA

GeoEngineers

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Appendix G

Report Limitations and Guidelines For Use

Appendix G
Report Limitations and Guidelines For Use[11]

This appendix provides information to help you manage your risks with respect to the use of this report. Please confer with GeoEngineers if you need to know more about how these "Report Limitations and Guidelines for Use" apply to your project or property.

READ THESE PROVISIONS CLOSELY

It is important to recognize that environmental engineering and geoscience practices (geotechnical engineering, geology, and environmental science) are less exact than other engineering and natural science disciplines. GeoEngineers includes these explanatory "limitations" provisions in our reports to help reduce the risk of misunderstandings or unrealistic expectations that lead to disappointments, claims and disputes.

ENVIRONMENTAL SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES, PERSONS, AND PROJECTS

This report has been prepared for Sound Transit. Sound Transit may distribute copies of this report to South County Transit Partners and other authorized agents and regulatory agencies as may be required for the project. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures its services to meet the specific needs of its clients. For example, an environmental site assessment study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. Use of this report is not recommended for any purpose or project other than as expressly stated in this report.

THIS ENVIRONMENTAL REPORT IS BASED ON A UNIQUE SET OF PROJECT-SPECIFIC FACTORS

This report has been prepared for Parcel FL358 in Federal Way, Washington. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this Project. Unless GeoEngineers specifically indicates otherwise, it is important not to rely on this report if it was:

- Not prepared for you,
- Not prepared for your Project,
- Not prepared for the specific site explored, or
- Completed before Project changes were made.

11 Developed based on material provided by GBA, GeoProfessional Business Association; www.geoprofessional.org.

If changes to the Project or property occur after the date of this report, GeoEngineers cannot be responsible for any consequences of such changes in relation to this report unless we have been given the opportunity to review our interpretations and recommendations in the context of such changes. Based on that review, we can provide written modifications or confirmation, as appropriate.

RELIANCE CONDITIONS FOR THIRD PARTIES

This report was prepared for the exclusive use of the party(ies) to whom this report is addressed. No other party may rely on the product of our services unless we agree to such reliance in advance and in writing. Within the limitations of the agreed Project scope, schedule and budget, our services have been executed in accordance with our Agreement with the Client and generally accepted environmental practices in this area at the time this report was prepared.

UNDERSTAND THAT GEOTECHNICAL ISSUES HAVE NOT BEEN ADDRESSED

Unless geotechnical engineering was specifically included in our scope of service, this report does not provide any geotechnical findings, conclusions, or recommendations, including but not limited to, the suitability of subsurface materials for construction purposes.

DO NOT SEPARATE DOCUMENTATION FROM THE REPORT

Environmental reports often include supplemental documentation, such as maps, figures, and table. Do not separate such documentation from the report. Further, do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.

ENVIRONMENTAL REGULATIONS CHANGE AND EVOLVE

Some substances may be present in the vicinity of the subject property in quantities or under conditions that may have led, or may lead, to contamination of the subject property, but are not included in current local, state, or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substances, change or if more stringent environmental standards are developed in the future.

UNCERTAINTY MAY REMAIN EVEN AFTER THIS PROJECT IS COMPLETED

Performance of an environmental assessment is intended to reduce uncertainty regarding the potential for contamination in connection with a property, but no environmental assessment can wholly eliminate that uncertainty. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from widely spaced sampling locations. It is always possible that contamination exists in areas that were not explored, sampled, or analyzed.

SUBSURFACE CONDITIONS CAN CHANGE

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by man-made events such as construction on or adjacent to the subject property, by new releases of hazardous substances, new

information or technology that become available subsequent to the report date, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Please contact GeoEngineers before applying this report for its intended purpose so that GeoEngineers may evaluate whether changed conditions affect the continued applicability of the report.

SOIL AND GROUNDWATER END USE

The cleanup levels referenced in this report are site- and situation-specific. The cleanup levels may not be applicable for other properties or for other on-site uses of the affected soil and/or groundwater. Note that hazardous substances may be present in some of the on-site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. GeoEngineers should be contacted prior to the export of soil or groundwater from the subject property or reuse of the affected soil or groundwater on-site to evaluate the potential for associated environmental liabilities. GeoEngineers will not assume responsibility for potential environmental liability arising out of the transfer of soil and/or groundwater from the subject property to another location, or the reuse of such soil and/or groundwater on-site in any instances that we did not recommend, know of, or control.

MOST ENVIRONMENTAL FINDINGS ARE PROFESSIONAL OPINIONS

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the subject property. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied its professional judgment to render an informed opinion about subsurface conditions throughout the property. Actual subsurface conditions may differ significantly from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

DO NOT REDRAW THE EXPLORATION LOGS

Environmental scientists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in an environmental report should never be redrawn for inclusion in other design documents. Only photographic or electronic reproduction that preserves the entire original boring log is acceptable, but separating logs from the report can create increase the risk of potential misinterpretation.

BIOLOGICAL POLLUTANTS

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention, or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing, or abating of Biological Pollutants, and no conclusions or inferences should be drawn regarding Biological Pollutants as they may relate to this Project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

A Client that desires these specialized services is advised to obtain them from a consultant who offers services in this specialized field.

INFORMATION PROVIDED BY OTHERS

GeoEngineers has relied upon certain data or information provided or compiled by others in the performance of our services. Although we use sources that we reasonably believe to be trustworthy, GeoEngineers cannot warrant or guarantee the accuracy or completeness of information provided or compiled by others.