



SoundEarth Strategies, Inc.
1011 SW Klickitat Way, Suite 212
Seattle, Washington 98134

February 13, 2025

Sunny Becker
Washington State Department of Ecology – Northwest Regional Office
P.O. Box 330316
Shoreline, Washington 98133

SUBJECT: 2024 PROGRESS REPORT
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast, Seattle, Washington
Ecology Project Number: AODE7084
SoundEarth Project Number: 0651-002

Dear Ms. Sunny Becker:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this progress report to summarize activities completed during the year 2024 at the Plastic Sales and Service Site (the Site), Cleanup Site ID: 2074. Under the Agreed Order No. DE 7084 dated September 14, 2009, the Site is defined as the extent of hazardous substances at 6870 Woodlawn Avenue Northeast in Seattle, Washington (the Property). In 2009, the Site was defined by the extent of contamination caused by the releases of hazardous substances at the former Dry Cleaner Property and included the following:

- The Dry Cleaner Building property
- The property adjoining the Dry Cleaner Building property to the north, located at 6869 Woodlawn Avenue Northeast
- The property adjoining the Dry Cleaner Building property to the south, located at 6565 4th Avenue Northeast
- The property adjoining the Dry Cleaner Building property to the west, located at 6850 Woodlawn Avenue Northeast
- Portions of the western alley and Woodlawn Avenue Northeast and 4th Avenue Northeast rights-of-way (Woodlawn Avenue ROW and 4th Avenue ROW, respectively)

The current extent of chlorinated volatile organic (CVOs) in the groundwater at the Site is shown on Figure 1.

The work summarized below was conducted under a Consent Decree established between the Washington State Department of Ecology (Ecology) and The Lutheran Retirement Home of Greater Seattle (d/b/a The Hearthstone Retirement Living): Consent Decree Re: Plastic Sales Site, No. 16-2-13117-4, filed June 2, 2016.

ENHANCED REDUCTIVE DECHLORINATION PILOT TEST FIRST QUARTER 2024

SoundEarth implemented a groundwater treatment pilot test at the Site in March 2024, in accordance with the *Groundwater Pilot Test Work Plan Addendum, Plastic Sales and Service Site, 6870 Woodlawn Avenue Northeast, Seattle, Washington (Pilot Test Work Plan)*, prepared by SoundEarth and dated January 30, 2024 (SoundEarth 2024). The pilot test introduced Electron Donor Solution-Extended Release (EDS-ER, an emulsified oil) and liquid zero-valent iron (ZVI) in the shallow and deep water-bearing zones at the Site to prevent the generation of cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride (VC) from the degradation of tetrachloroethene (PCE) and to degrade existing high concentrations of cis-1,2-DCE and VC.

SoundEarth evaluated the efficacy of the pilot test based on changes in VC concentrations and the geochemistry of the groundwater over time. Results from the pilot test monitoring showed that concentrations of VC remained stable throughout the tenure of the pilot test, indicating that degradation of the analytes was not occurring in the groundwater. The absence of substantial and sustained changes in the geochemical indicators during the pilot test supports this conclusion. Analysis of the performance of the pilot test is presented in the technical memorandum *Analysis of ZVI and EDS-ER Pilot Test Results – Plastic Sales and Services Site*, dated January 16, 2025, and prepared by SoundEarth (SoundEarth 2025b).

GROUNDWATER MONITORING SECOND AND FOURTH QUARTER 2024

The following sections summarize groundwater monitoring activities completed at the Site during the second and fourth quarters of 2024.

Comprehensive Semiannual Groundwater Monitoring and Sampling

The 2024 second and fourth quarter groundwater monitoring and sampling events at the Site occurred between April 12 and 17, 2024, and October 23 and 29, 2024, respectively. During both groundwater monitoring and sampling events, each well was opened and allowed to equilibrate with atmospheric pressure for a minimum of 30 minutes prior to measuring groundwater depth. The groundwater level at each well in the monitoring well network was measured relative to the top of well casing to an accuracy of 0.01 feet using an electronic water level meter before collecting groundwater samples. Groundwater elevations are presented in Table 1.

Groundwater samples were collected from the following monitoring wells:

- **Shallow Water-Bearing Zone:** MW03, MW05, MW06, MW15, MW19, MW21, MW24, MW27, MW28, MW30, MW32, MW34, and MW36, and injection wells IW08, IW16, IW21, IW31, IW33, IW55, IW57, IW59, and IW61.
- **Deep Water-Bearing Zone:** MW09 through MW11, MW13, MW29, MW31, MW33, MW35, and MW37 and injection wells IW07, IW15, IW22, IW32, IW34, and IW60.

Groundwater sampling was performed in accordance with the US Environmental Protection Agency (EPA) “Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures” dated April 1996 (Puls and Barcelona 1996). Purging and sampling of the monitoring wells were performed using a peristaltic pump and dedicated polyethylene tubing at a flow rate of 100 milliliters per minute. Based on the depth-to-groundwater measurements collected by SoundEarth, groundwater levels were below the top of well screens in all three monitoring wells. The tubing intake was placed at approximately 2 to 3 feet below the

static groundwater level in the monitoring wells. During purging, water quality was monitored using a multi-parameter water quality meter equipped with a flow-through cell. The water quality parameters monitored and recorded during well purging included temperature, pH, specific conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential. Each well was purged until all six water quality parameters or the minimum subset of pH, specific conductance, and turbidity or dissolved oxygen stabilized. Following purging of low-flow sample wells, groundwater samples were collected from the pump outlet tubing located upstream of the flow-through cell and placed directly into clean, laboratory-prepared sample containers. Each sample container was labeled with a unique sample identification number, placed on ice in a cooler, and transported to OnSite Environmental Inc. laboratory of Redmond, Washington (OnSite), under standard chain-of-custody protocols for laboratory analysis.

Select groundwater monitoring wells were sampled using a passive diffusion sampler (IW07, IW08, IW15, IW16, IW21, IW22, IW31, IW32, IW33, IW34, IW55, IW57, IW59, IW60, and IW61). Passive samples were collected by suspending a 350 mL Equilibrator Passive Diffusion Sampler (PDB) Prefilled with ASTM Type 1 Deionized water at a fixed depth in each well. Samplers were placed at depths either approximately 2 to 3 feet below the static groundwater level or in the center of the well screened interval if the static groundwater level was above the top of the screened interval. The PDBs were left submerged in the wells for 2 weeks. Water was extracted from the PDBs through a polypropylene discharge straw inserted through the side of the membrane. Water was allowed to flow through the straw into a purge bucket for 1 to 2 seconds prior to allowing the water to flow directly into clean, laboratory-prepared sample containers. Each sample container was labeled with a unique sample identification number, placed on ice in a cooler, and transported to OnSite laboratory under standard chain-of-custody protocols for laboratory analysis.

Purge water generated during the monitoring events was placed in an appropriately labeled 55-gallon steel drum and temporarily stored on the Property pending receipt of analytical data and proper disposal.

Laboratory Analysis

Groundwater samples were submitted and analyzed for one or more of the following analytes:

- CVOCs by EPA Method 8260D
- Total organic carbon by Method SM 5310B
- Nitrate (as Nitrogen) by EPA Method 353.2
- Sulfate by Method ASTM D516-11
- Chloride by Method SM 4500-Cl E
- Total iron and manganese by EPA Method 6010D
- Ferrous iron by EPA Method SM 3500-Fe B
- Methane, ethene, and ethane by Method RSK-175
- Volatile fatty acids by Ion Chromatography with Electrical Conductivity Detection

Ferric iron was calculated and equals total iron minus ferrous iron.

Current and past analytical results for CVOCs, natural attenuation parameters, geochemical parameters, and volatile fatty acids of the groundwater samples are summarized in Tables 2 through 5. All groundwater sampling data, including results of natural attenuation parameters, will be uploaded to and available from Ecology's Environmental Information Management system database.

DATA AND DESCRIPTIONS OF SAMPLES COLLECTED

Groundwater levels and analytical results from the groundwater monitoring events are summarized below and presented in Tables 1 through 5. Groundwater elevation contour maps and groundwater monitoring wells containing CVOCs at concentrations exceeding the applicable Washington State Model Toxics Control Act (MTCA) cleanup levels for the second and fourth quarter 2024 groundwater monitoring events are presented on Figures 2 through 5. Groundwater sample laboratory analytical reports are included in Attachment A.

Shallow Water-Bearing Zone

Based on groundwater elevations measured at monitoring or injection wells screened in the shallow water-bearing zone during both the second and fourth quarters of 2024, groundwater flows in a radial pattern toward the Property at the Woodlawn Ave ROW, in the 4th Ave ROW south of the intersection of the Woodlawn and 4th Ave ROWs, and from the alley that bisects the Property. The radial pattern results from the permanent sub-slab drainage system installed in the footprint of the Property development. North of the intersection of the Woodlawn and 4th Ave ROWs, the shallow groundwater flow direction is to the northeast. The groundwater gradient in the shallow water-bearing zone ranged from 0.0001 to 0.137 feet per foot during the second quarter of 2024 and 0.0002 to 0.073 feet per foot during the fourth quarter of 2024. The groundwater flow direction and gradient in the shallow water-bearing zone are similar to what has been observed in previous groundwater monitoring events. The 2024 second and fourth quarter groundwater elevation contour maps for the shallow water-bearing zone and the analytical results of groundwater samples collected that contain CVOCs at concentrations exceeding applicable MTCA cleanup levels for groundwater are shown on Figures 2 and 4.

Deep Water-Bearing Zone

Based on groundwater elevations measured at monitoring or injection wells screened in the deep water-bearing zone during both the second and fourth quarters of 2024, groundwater flows to the northeast. The groundwater gradient in the deep water-bearing zone ranged from 0.0003 to 0.044 feet per foot during the second quarter of 2024 and 0.0002 to 0.042 feet per foot during the fourth quarter of 2024. The groundwater flow direction and gradient in the deep water-bearing zone are similar to what has been observed in previous groundwater monitoring events. The 2024 second and fourth quarter groundwater elevation contour maps for the deep water-bearing zone and the analytical results of groundwater samples collected that contain CVOCs at concentrations exceeding applicable MTCA cleanup levels for groundwater are shown on Figures 3 and 5.

TREND ANALYSIS OF GROUNDWATER ANALYTICAL RESULTS

SoundEarth performed trend analysis for monitoring or injection wells where CVOCs were detected at concentrations exceeding MTCA cleanup levels in the second and/or fourth quarter of 2024 and for which at least four groundwater sampling events have been performed. A trend analysis was not performed if the CVOC concentration was not reported above the laboratory reporting limit and was not detected above the applicable MTCA cleanup levels in the fourth quarter of 2024.

The temporal analyses were performed using Ecology's *Guidance on Remediation of Petroleum-Contaminated Groundwater by Natural Attenuation*, dated July 2005 (Module 1; Ecology 2005). The trend analyses for each injection or monitoring well is presented in Attachment B. A summary of the trend analyses for the injection and monitoring well as of the fourth quarter of 2024 is presented in Table 6 and briefly summarized below.

Shallow Water-Bearing Zone

A trend analysis was performed for the shallow water-bearing zone monitoring/injection wells MW03, MW05, MW06, MW15, MW24, MW28, MW34, IW08, IW16, IW21, IW31, IW33, IW55, IW59, and IW61. Trend analyses showed the following conditions:

- The PCE concentration at monitoring well MW03 is increasing with time.
- Cis-1,2-DCE concentrations at injection wells IW08 and IW61 are increasing with time.
- VC concentrations at monitoring/injection wells MW15, MW24, MW31, IW08, IW33, IW59, and IW61 are increasing with time.

The trends for the remaining analytes with concentrations above the cleanup levels are undetermined, stable, or decreasing with time.

Trends in CVOC concentrations as of the fourth quarter of 2024 are like those observed at the end of 2023, except for CVOC concentrations detected in monitoring well MW05 and injection well IW59. The changes in the trend analyses from the fourth quarter of 2023 to 2024 are as follows:

- In the fourth quarter of 2023, the VC concentration at monitoring well MW05 was stable but decreasing with time in the fourth quarter of 2024.
- In the fourth quarter of 2023, the VC concentration at injection well IW59 was stable but increasing with time in the fourth quarter of 2024.

For the fourth quarter of 2024, trend analyses also include injection/monitoring wells MW15, MW34, IW31, IW55, and IW61, which were not previously analyzed because of insufficient results to perform a trend analysis (Tables 2 and 6).

Deep Water-Bearing Zone

A trend analysis was performed for the deep water-bearing zone monitoring/injection wells MW09, MW10, MW31, IW15, IW22, IW32, and IW34. Trend analyses showed the following conditions:

- The PCE concentration at monitoring well MW09 is increasing with time.
- The trichloroethene (TCE) concentration at monitoring well MW10 is increasing with time.
- Cis-1,2-DCE concentrations at injection wells IW15 and IW32 are increasing with time.
- VC concentrations at monitoring well MW31 and injection wells IW32 and IW34 are increasing with time.

The trends for the remaining analytes with concentrations above the cleanup levels are undetermined, stable, or decreasing with time.

Trends in concentrations of CVOCs as of the fourth quarter of 2024 are like those observed at the end of 2023, except for monitoring/injection wells MW09, MW10, IW15, IW22, and IW34. The changes in the trend analyses from the fourth quarter of 2023 to 2024 are as follows.

- In the fourth quarter of 2023, the cis-1,2-DCE concentration at monitoring well MW09 did not exceed the cleanup level, but in the same period in 2024, although the concentration was at the cleanup level, the trend in cis-1,2-DCE concentration was decreasing with time.
- In the fourth quarter of 2023, the PCE concentration was decreasing at monitoring well MW10, but in the same period in 2024, the trend of the concentration was undetermined with time.
- In the fourth quarter of 2023, the VC concentrations at injection wells IW15 and IW22 were increasing with time, but in same period in 2024, the VC concentration was decreasing at injection well IW15 and stable at injection well IW22 with time.
- In the fourth quarter of 2023, the cis-1,2-DCE concentration at injection well IW34 was increasing, but the concentration was stable with time at the end of 2024.

VAPOR INTRUSION ASSESSMENT FOURTH QUARTER 2024

SoundEarth conducted a vapor intrusion assessment at the Janke Property building during the fourth quarter of 2024. The purpose of the vapor intrusion assessment was to evaluate whether the known elevated CVOC concentrations present in groundwater adjacent to the Janke Property building are resulting in elevated CVOC concentrations in the indoor air inside the building. The assessment consisted of collecting five indoor air samples, one outdoor ambient air sample, and two sub-slab soil gas samples from the Janke Property building. The following sections summarize the vapor intrusion assessment activities completed at the Site during the fourth quarter of 2024.

Building Survey

Prior to collecting air quality samples, SoundEarth completed a building survey of the Janke Property building to evaluate the potential presence of CVOC sources or materials that may contribute to background indoor air contamination. Identified potential CVOC sources or other materials that were identified during the building survey were removed from the building at least 48 hours prior to sample collection to the extent feasible to minimize the risk of interference during sampling activities.

Indoor Air, Ambient Air, and Sub-Slab Soil Gas Sampling

On December 17, 2024, SoundEarth collected five indoor air samples (IA01, IA02, IA03, IA04, and IA05), one outdoor ambient air sample (OA01), and two sub-slab soil gas samples (SS01 and SS02) at the Janke Property building. Indoor air, outdoor ambient air, and sub-slab soil gas samples were collected using the procedures and methodologies described in SoundEarth's *Vapor Intrusion Assessment Sampling and Analysis Plan, Plastic Sales and Service Site, 6870 Woodlawn Avenue Northeast, Seattle, Washington*, dated August 15, 2023 (SoundEarth 2023). Indoor air, outdoor ambient air, and sub-slab soil gas samples were submitted to Friedman and Bruya, Inc. of Seattle, Washington, (F&B) for analysis of CVOCs by EPA Method TO-15. Sub-slab soil gas samples were also submitted to F&B for analysis of helium by Method ASTM D1946. Sample locations are shown on Figures 6 and 7. Indoor air, outdoor ambient air, and sub-slab soil gas sample results are presented in Tables 7 and 8.

Based on the results of the vapor intrusion assessment, PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and VC were not detected at concentrations above laboratory reporting limits in any of the analyzed indoor air, ambient outdoor air, or sub-slab soil gas samples. Helium was not detected at concentrations above laboratory reporting limits in sub-slab soil gas samples. The vapor intrusion assessment activities and results are summarized in SoundEarth's email report, *2024 Janke Building Vapor Intrusion Assessment Results*, that was sent to Ecology on January 6, 2025 (SoundEarth 2025a).

PLANNED ACTIVITIES: FIRST QUARTER 2025

Planned activities at the Site in the first quarter of 2025 are summarized below.

First Quarter 2025

SoundEarth will work with Ecology to develop groundwater remedial alternatives for the Site.

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with SoundEarth's agreement with the client. This report is solely for the use and information of the client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report are derived, in part, from data gathered by others, and from conditions evaluated when services were performed, and are intended only for the client, purposes, locations, time frames, and project parameters indicated. SoundEarth does not warrant and is not responsible for the accuracy or validity of work performed by others, nor from the impacts of changes in environmental standards, practices, or regulations subsequent to performance of services. SoundEarth does not warrant the use of segregated portions of this report.

CLOSING

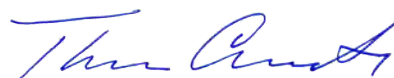
SoundEarth appreciates the opportunity to provide you with the 2024 progress report for this project. Please contact the undersigned at 206-306-1900 with any questions or comments.

Respectfully,

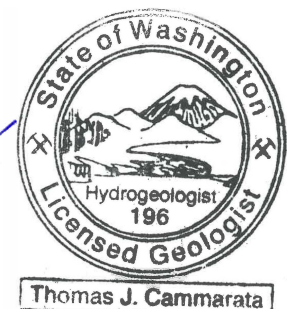
SoundEarth Strategies, Inc.



Linnea Coleman, GIT
Staff Geologist



Thomas Cammarata, LG, LHG
Principal Geochemist



REFERENCES

- Puls, Robert W. and Michael J. Barcelona. 1996. "Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures." *Ground Water Issue*. US Environmental Protection Agency Publication No. EPA/540/S-95/504. April.
- SoundEarth Strategies, Inc. (SoundEarth). 2023. Vapor Intrusion Assessment Sampling and Analysis Plan, Plastic Sales and Service Site, 6870 Woodlawn Avenue Northeast, Seattle, Washington. Prepared for Washington State Department of Ecology. August 15.
- _____. 2024. *Groundwater Pilot Test Work Plan Addendum, Plastic Sales and Service Site, 6870 Woodlawn Avenue Northeast, Seattle, Washington*. Prepared for Washington State Department of Ecology. January 30.
- _____. 2025a. Email regarding December 2024 Janke Building Vapor Intrusion Assessment Results. From Clare Tochilin. To Sunny Becker, Washington State Department of Ecology. January 6.
- _____. 2025b. Regulatory draft technical memorandum regarding Analysis of ZVI and EDS-ER Pilot Test Results – Plastic Sales and Services Site. To Sunny Becker, Washington State Department of Ecology. From Thomas Cammarata. January 16.
- Washington State Department of Ecology (Ecology). 2005. *Guidance on Remediation of Petroleum-Contaminated Ground Water by Natural Attenuation*. Publication No. 05-09-091. July.

Attachments: Figure 1, Site Boundary Map
Figure 2, Q2 2024 CVOCs in Groundwater and Groundwater Contour Map for the Shallow Water-Bearing Zone
Figure 3, Q2 2024 CVOCs in Groundwater and Groundwater Contour Map for the Deep Water-Bearing Zone
Figure 4, Q4 2024 CVOCs in Groundwater and Groundwater Contour Map for the Shallow Water-Bearing Zone
Figure 5, Q4 2024 CVOCs in Groundwater and Groundwater Contour Map for the Deep Water-Bearing Zone
Figure 6, Sub-Slab Soil Gas Analytical Results – 2024 Janke Building Vapor Intrusion Assessment
Figure 7, Indoor Air Analytical Results – 2024 Janke Building Vapor Intrusion Assessment
Table 1, Summary of Groundwater Elevation Data
Table 2, Groundwater Analytical Results for CVOCs
Table 3, Natural Attenuation Parameters
Table 4, Geochemical and Water Quality Parameters
Table 5, Groundwater Analytical Results for Volatile Fatty Acids
Table 6, Mann-Kendall Non-Parametric Trend Results for Fourth Quarter 2024
Table 7, Summary of Indoor Air Analytical Results
Table 8, Summary of Sub-Slab Soil Gas Analytical Results
Attachment A, Laboratory Analytical Reports
Second Quarter 2024 Groundwater

OnSite Environmental Inc. #2404-200

OnSite Environmental Inc. #2404-201

OnSite Environmental Inc. #2404-218

OnSite Environmental Inc. #2404-236

Fourth Quarter 2024 Groundwater

OnSite Environmental Inc. #2410-335

OnSite Environmental Inc. #2410-337

OnSite Environmental Inc. #2410-338

OnSite Environmental Inc. #2410-347

OnSite Environmental Inc. #2410-359

OnSite Environmental Inc. #2410-390

Vapor Intrusion Assessment

Friedman & Bruya, Inc. #412328

Friedman & Bruya, Inc. #412329

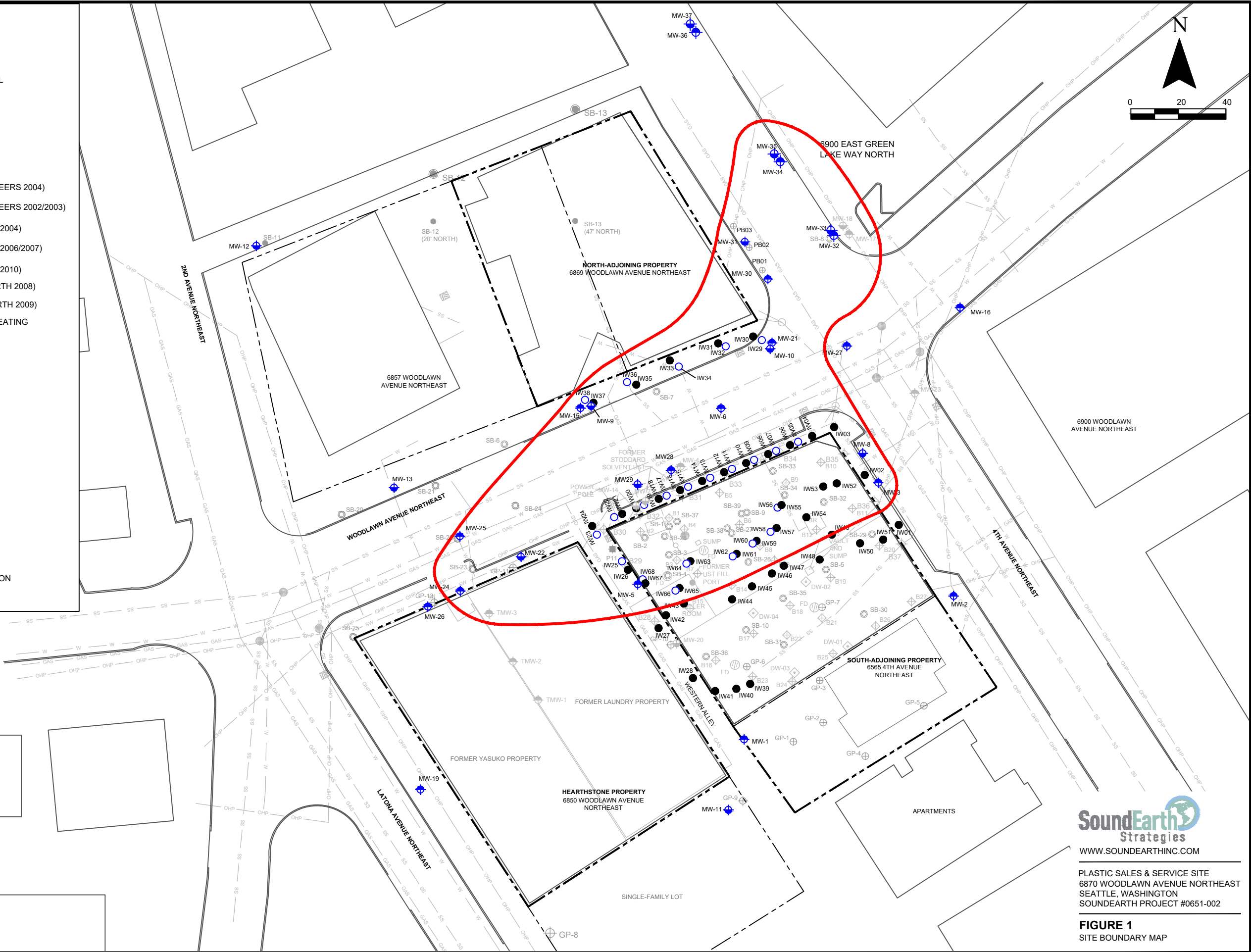
Attachment B, Mann-Kendall Non-Parametric Trend Results

FIGURES

LEGEND

- CATCH BASIN
- MANHOLE
- SHALLOW-ZONE MONITORING WELL
- DEEP-ZONE MONITORING WELL
- DEEP DEWATERING WELL
- SHALLOW INJECTION WELL
- DEEP INJECTION WELL
- DECOMMISSIONED WELL
- DIRECT-PUSH BORING (GEOENGINEERS 2004)
- DIRECT-PUSH BORING (GEOENGINEERS 2002/2003)
- DIRECT-PUSH BORING (FARALLON 2004)
- DIRECT-PUSH BORING (FARALLON 2006/2007)
- DIRECT-PUSH BORING (FARALLON 2010)
- DIRECT-PUSH BORING (SOUNDEARTH 2008)
- HOLLOW-STEM AUGER (SOUNDEARTH 2009)
- POST-ELECTRICAL RESISTANCE HEATING BORING LOCATION
- STORMWATER LINE
- GAS LINE
- SANITARY SEWER LINE
- WATER LINE
- OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- SITE BOUNDARY
- FLOOR DRAIN
- UNDERGROUND STORAGE TANK

- NOTES:
- FIGURE DERIVED FROM BASEMAP BY FARALLON CONSULTING, 2010.

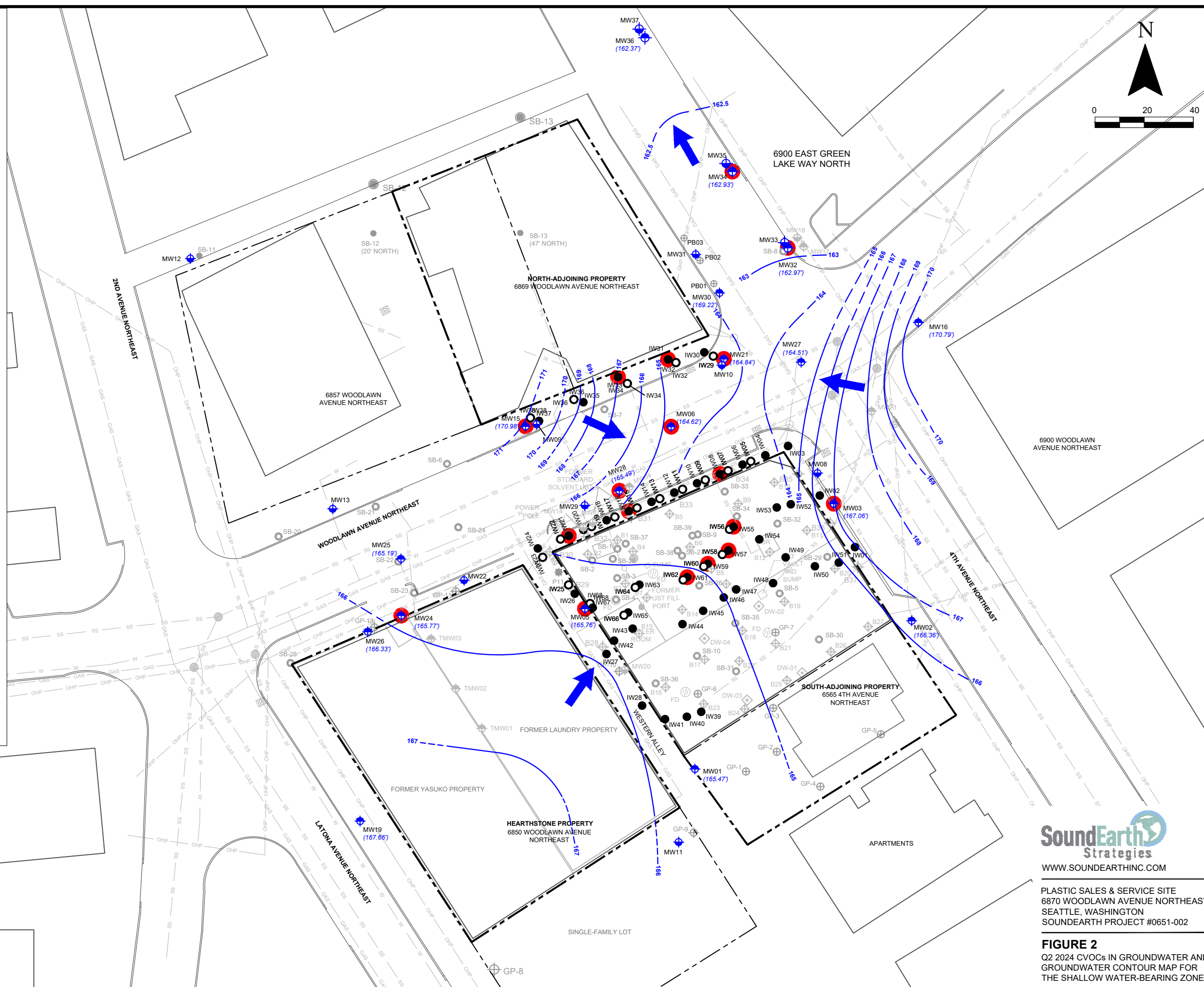


LEGEND

- CATCH BASIN
- MANHOLE
- SHALLOW-ZONE MONITORING WELL
- DEEP-ZONE MONITORING WELL
- DEEP DEWATERING WELL
- SHALLOW INJECTION WELL
- DEEP INJECTION WELL
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW (SHALLOW ZONE)
- SHALLOW ZONE POTENTIOMETRIC SURFACE CONTOUR (APRIL 12, 2024)
DASHED WHERE INFERRED
- GROUNDWATER ELEVATION
- DECOMMISSIONED WELL
- DIRECT-PUSH BORING (GEOENGINEERS 2004)
- DIRECT-PUSH BORING (GEOENGINEERS 2002/2003)
- DIRECT-PUSH BORING (FARALLON 2004)
- DIRECT-PUSH BORING (FARALLON 2006/2007)
- DIRECT-PUSH BORING (FARALLON 2010)
- DIRECT-PUSH BORING (SOUNDEARTH 2008)
- HOLLOW-STEM AUGER (SOUNDEARTH 2009)
- POST-ELECTRICAL RESISTANCE HEATING BORING LOCATION
- STORMWATER LINE
- GAS LINE
- SANITARY SEWER LINE
- WATER LINE
- OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- FLOOR DRAIN
- UNDERGROUND STORAGE TANK
- DENOTES CVOC CONCENTRATION IN GROUNDWATER THAT EXCEEDS MTCA METHOD A OR B CLEANUP LEVEL

NOTES:

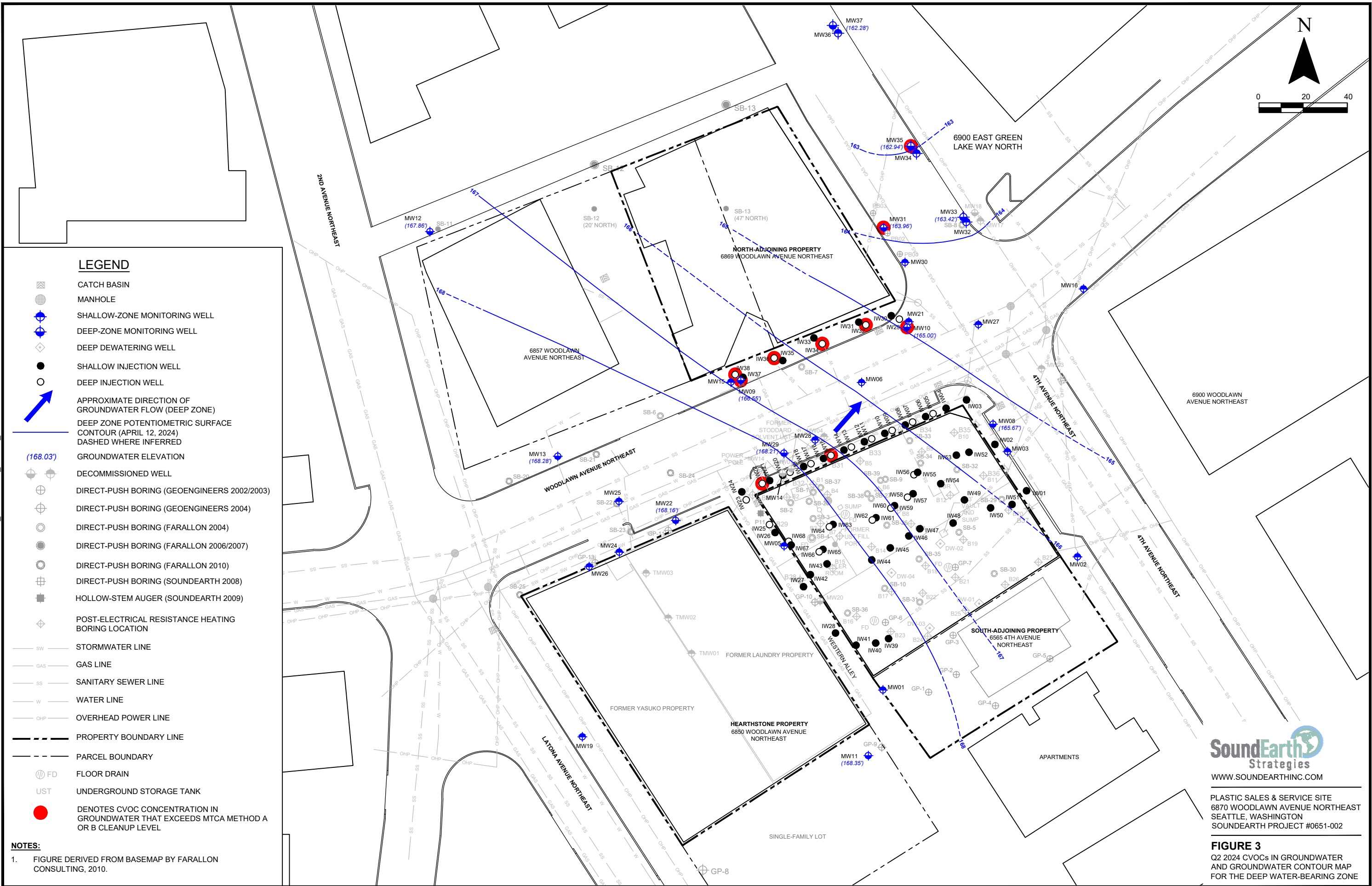
- FIGURE DERIVED FROM BASEMAP BY FARALLON CONSULTING, 2010.
- MW30 WAS NOT INCLUDED IN GROUNDWATER FLOW AND CONTOUR CALCULATIONS.



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FIGURE 2
Q2 2024 CVOCs IN GROUNDWATER AND
GROUNDWATER CONTOUR MAP FOR
THE SHALLOW WATER-BEARING ZONE



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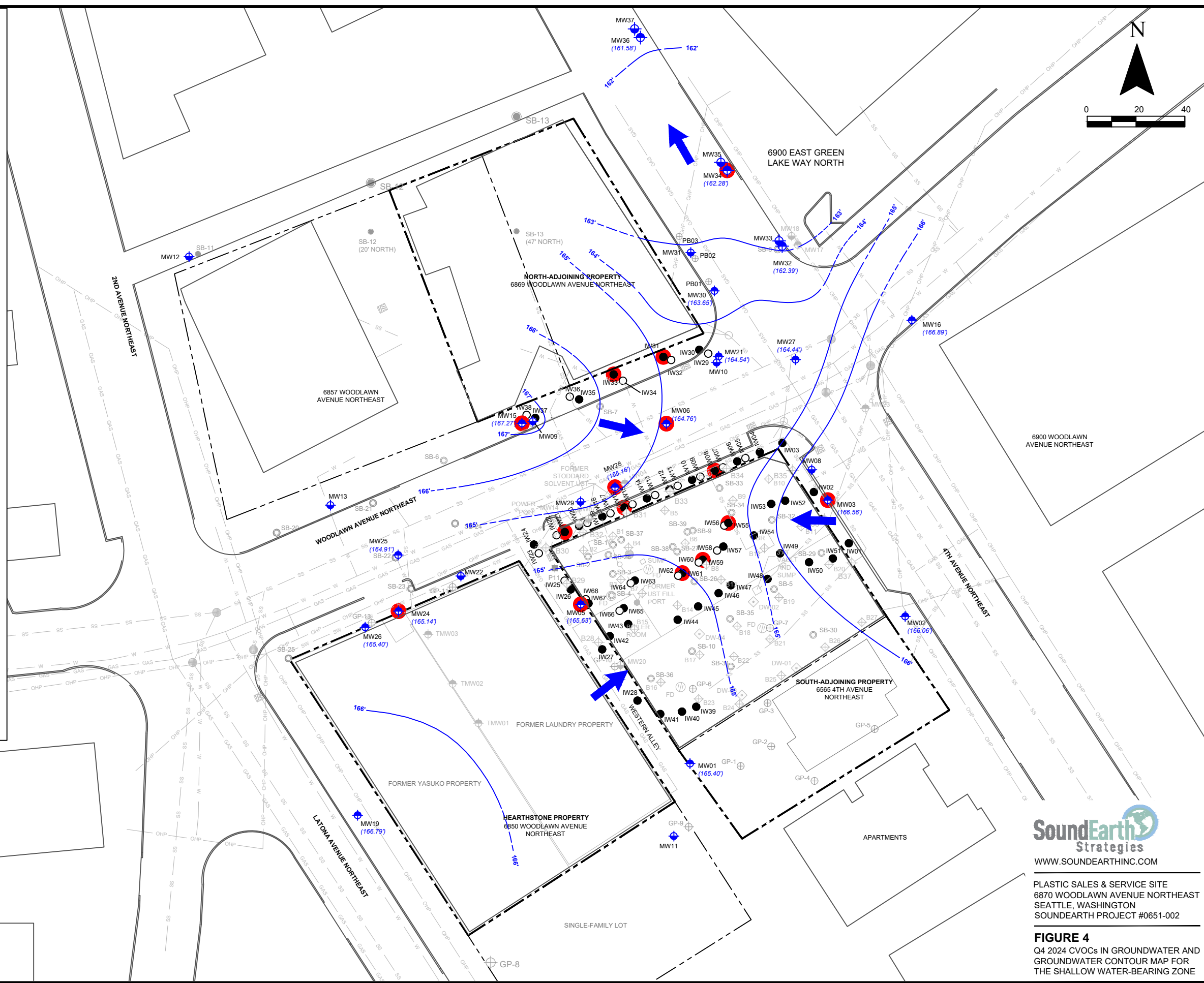
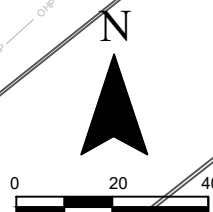
PLASTIC SALES & SERVICE SITE
6870 WOODLAWN AVENUE NORTHEAST
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0651-002

FIGURE 3
Q2 2024 CVOCs IN GROUNDWATER
AND GROUNDWATER CONTOUR MAP
FOR THE DEEP WATER-BEARING ZONE

LEGEND

- CATCH BASIN
- MANHOLE
- SHALLOW-ZONE MONITORING WELL
- DEEP-ZONE MONITORING WELL
- DEEP DEWATERING WELL
- SHALLOW INJECTION WELL
- DEEP INJECTION WELL
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW (SHALLOW ZONE)
- SHALLOW ZONE POTENTIOMETRIC SURFACE CONTOUR (OCTOBER 23, 2024)
DASHED WHERE INFERRED
- GROUNDWATER ELEVATION (165.40')
- DECOMMISSIONED WELL
- DIRECT-PUSH BORING (GEOENGINEERS 2004)
- DIRECT-PUSH BORING (GEOENGINEERS 2002/2003)
- DIRECT-PUSH BORING (FARALLON 2004)
- DIRECT-PUSH BORING (FARALLON 2006/2007)
- DIRECT-PUSH BORING (FARALLON 2010)
- DIRECT-PUSH BORING (SOUNDEARTH 2008)
- HOLLOW-STEM AUGER (SOUNDEARTH 2009)
- POST-ELECTRICAL RESISTANCE HEATING BORING LOCATION
- STORMWATER LINE
- GAS LINE
- SANITARY SEWER LINE
- WATER LINE
- OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- FLOOR DRAIN
- UNDERGROUND STORAGE TANK
- DENOTES CVOC CONCENTRATION IN GROUNDWATER THAT EXCEEDS MTCA METHOD A OR B CLEANUP LEVEL

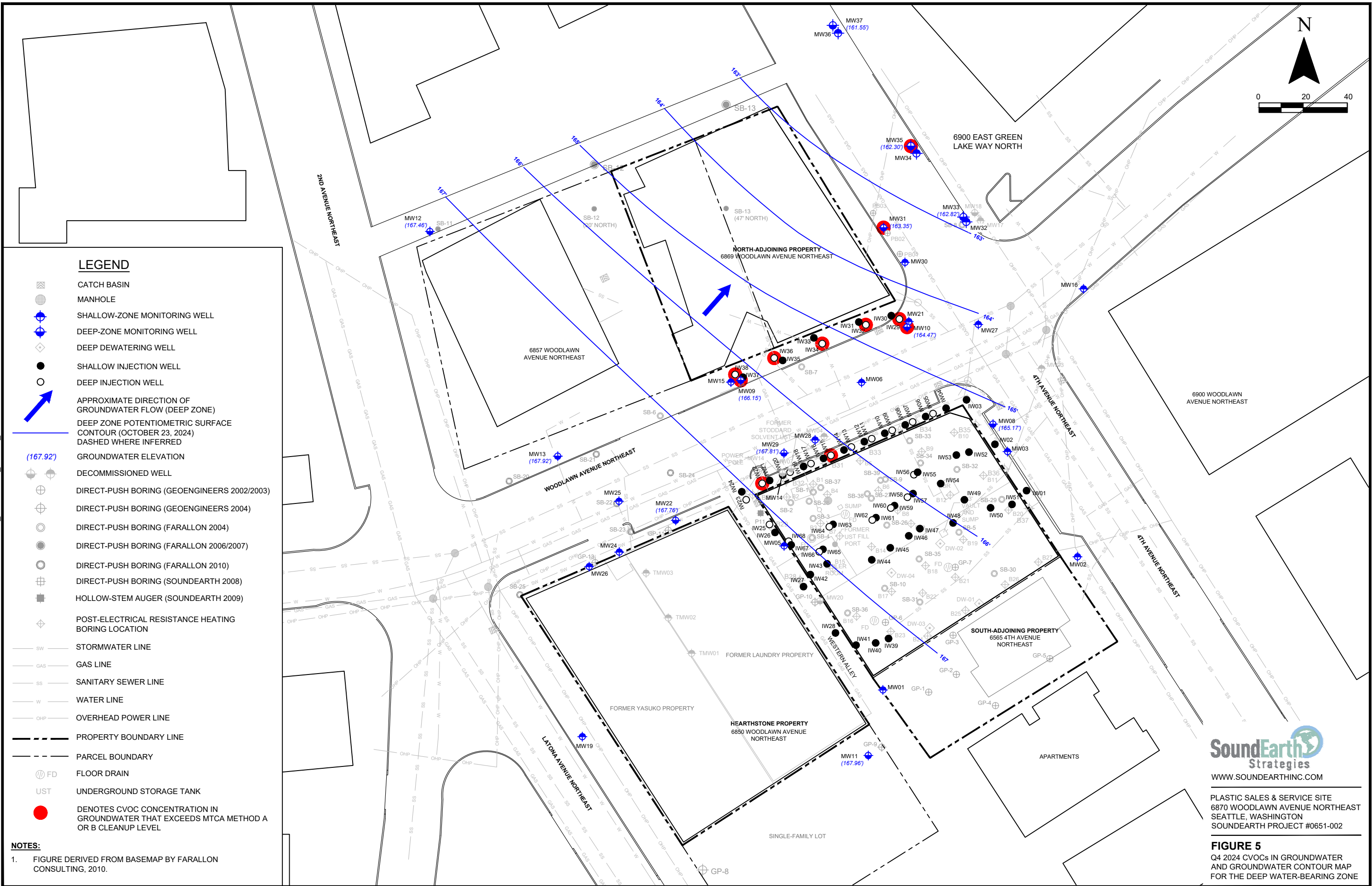
- NOTES:
- FIGURE DERIVED FROM BASEMAP BY FARALLON CONSULTING, 2010.



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FIGURE 4
Q4 2024 CVOCs IN GROUNDWATER AND
GROUNDWATER CONTOUR MAP FOR
THE SHALLOW WATER-BEARING ZONE



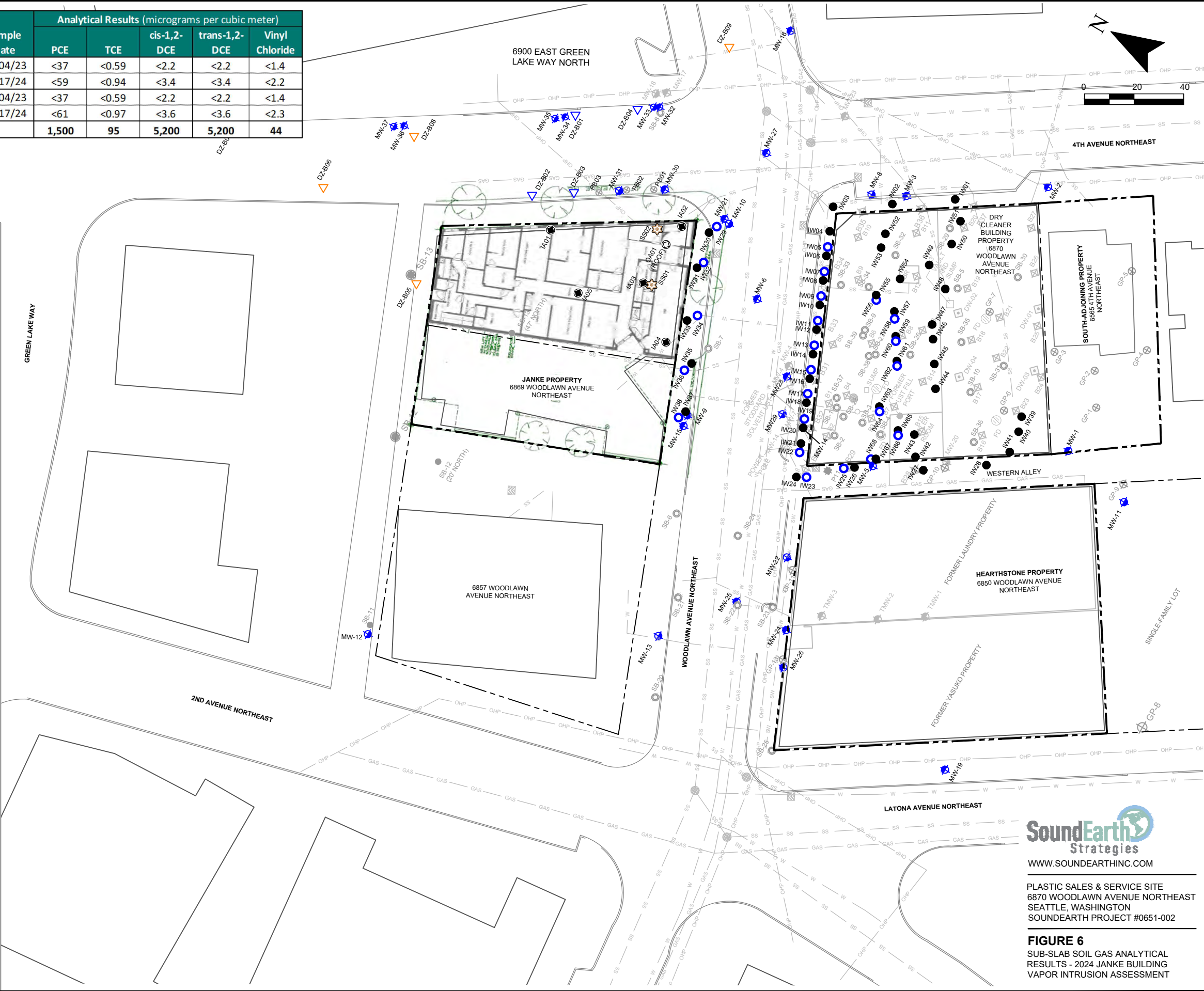
Sample Location ID	Location	Sample Date	Analytical Results (micrograms per cubic meter)				
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
SS01	Janke building - southeastern crawl space hatch	12/04/23	<37	<0.59	<2.2	<2.2	<1.4
		12/17/24	<59	<0.94	<3.4	<3.4	<2.2
SS02	Janke building - southern crawl space hatch	12/04/23	<37	<0.59	<2.2	<2.2	<1.4
		12/17/24	<61	<0.97	<3.6	<3.6	<2.3
MTCA Sub-Slab Soil Gas Screening Levels for Commercial Workers			1,500	95	5,200	5,200	44

LEGEND

- INDOOR AIR SAMPLE LOCATION (SOUNDEARTH 2023-2024)
- OUTDOOR AIR SAMPLE LOCATION (SOUNDEARTH 2023-2024)
- SUB-SLAB SOIL GAS SAMPLE LOCATION (SOUNDEARTH 2023-2024)
- DEEP WATER-BEARING ZONE BORINGS (2022)
- CATCH BASIN
- MANHOLE
- SHALLOW-ZONE MONITORING WELL
- DEEP-ZONE MONITORING WELL
- DEEP DEWATERING WELL
- SHALLOW INJECTION WELL
- DEEP INJECTION WELL
- DEEP WATER-BEARING ZONE BORINGS (2021)
- DECOMMISSIONED WELL
- DIRECT-PUSH BORING (GEOENGINEERS 2002/2003)
- DIRECT-PUSH BORING (GEOENGINEERS 2004)
- DIRECT-PUSH BORING (FARALLON 2004)
- DIRECT-PUSH BORING (FARALLON 2006/2007)
- DIRECT-PUSH BORING (FARALLON 2010)
- DIRECT-PUSH BORING (SOUNDEARTH 2008)
- HOLLOW-STEM AUGER (SOUNDEARTH 2009)
- POST-ELECTRICAL RESISTANCE HEATING BORING LOCATION
- STORMWATER LINE
- GAS LINE
- SANITARY SEWER LINE
- WATER LINE
- OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- FLOOR DRAIN
- UNDERGROUND STORAGE TANK
- DICHLOROETHENE
- WASHINGTON STATE MODEL TOXICS CONTROL ACT
- TETRACHLOROETHENE
- TRICHLOROETHENE

NOTES:

- FIGURE DERIVED FROM BASEMAP BY FARALLON CONSULTING, 2010.



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PLASTIC SALES & SERVICE SITE
6870 WOODLAWN AVENUE NORTHEAST
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0651-002

FIGURE 6
SUB-SLAB SOIL GAS ANALYTICAL
RESULTS - 2024 JANKE BUILDING
VAPOR INTRUSION ASSESSMENT

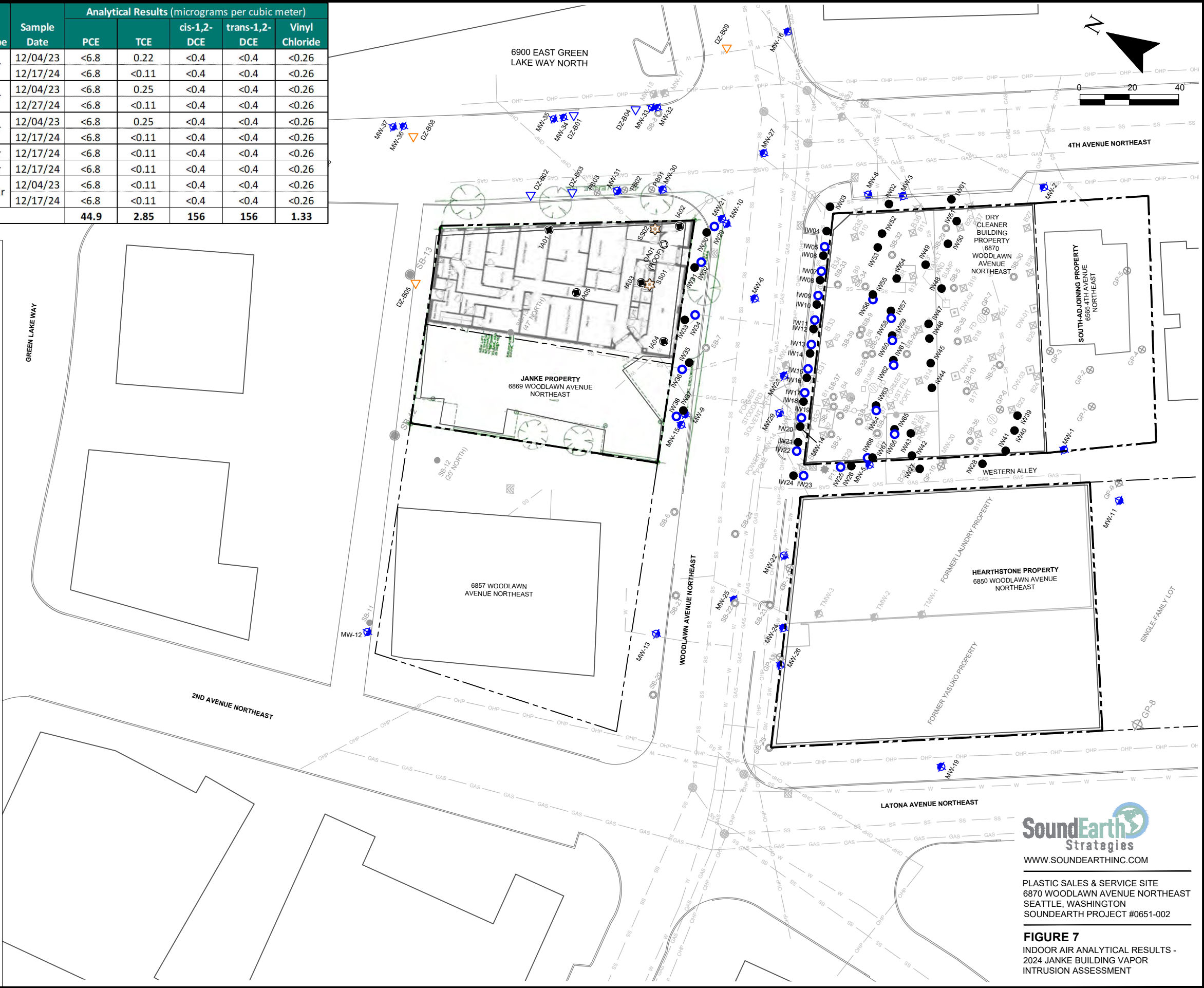
Sample Location ID	Location	Sample Type	Sample Date	Analytical Results (micrograms per cubic meter)				
				PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
IA01	Northeastern portion of Janke building	Indoor Air	12/04/23	<6.8	0.22	<0.4	<0.4	<0.26
			12/17/24	<6.8	<0.11	<0.4	<0.4	<0.26
IA02	Southeastern corner of Janke building	Indoor Air	12/04/23	<6.8	0.25	<0.4	<0.4	<0.26
			12/27/24	<6.8	<0.11	<0.4	<0.4	<0.26
IA03	Southern portion of Janke building	Indoor Air	12/04/23	<6.8	0.25	<0.4	<0.4	<0.26
			12/17/24	<6.8	<0.11	<0.4	<0.4	<0.26
IA04	Southwestern portion of Janke building	Indoor Air	12/17/24	<6.8	<0.11	<0.4	<0.4	<0.26
IA05	Central portion of Janke building	Indoor Air	12/17/24	<6.8	<0.11	<0.4	<0.4	<0.26
OA01	Southeastern corner of Janke building roof	Outdoor Air	12/04/23	<6.8	<0.11	<0.4	<0.4	<0.26
			12/17/24	<6.8	<0.11	<0.4	<0.4	<0.26
MTCA Indoor Air Screening Levels for Commercial Workers				44.9	2.85	156	156	1.33

LEGEND

- INDOOR AIR SAMPLE LOCATION (SOUNDEARTH 2023-2024)
- OUTDOOR AIR SAMPLE LOCATION (SOUNDEARTH 2023-2024)
- SUB-SLAB SOIL GAS SAMPLE LOCATION (SOUNDEARTH 2023-2024)
- DEEP WATER-BEARING ZONE BORINGS (2022)
- CATCH BASIN
- MANHOLE
- SHALLOW-ZONE MONITORING WELL
- DEEP-ZONE MONITORING WELL
- DEEP DEWATERING WELL
- SHALLOW INJECTION WELL
- DEEP INJECTION WELL
- DEEP WATER-BEARING ZONE BORINGS (2021)
- DECOMMISSIONED WELL
- DIRECT-PUSH BORING (GEOENGINEERS 2002/2003)
- DIRECT-PUSH BORING (GEOENGINEERS 2004)
- DIRECT-PUSH BORING (FARALLON 2004)
- DIRECT-PUSH BORING (FARALLON 2006/2007)
- DIRECT-PUSH BORING (FARALLON 2010)
- DIRECT-PUSH BORING (SOUNDEARTH 2008)
- HOLLOW-STEM AUGER (SOUNDEARTH 2009)
- POST-ELECTRICAL RESISTANCE HEATING BORING LOCATION
- STORMWATER LINE
- GAS LINE
- SANITARY SEWER LINE
- WATER LINE
- OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
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- TRICHLOROETHENE

NOTES:

1. FIGURE DERIVED FROM BASEMAP BY FARALLON CONSULTING, 2010.



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PLASTIC SALES & SERVICE SITE
6870 WOODLAWN AVENUE NORTHEAST
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0651-002

FIGURE 7
INDOOR AIR ANALYTICAL RESULTS -
2024 JANKE BUILDING VAPOR
INTRUSION ASSESSMENT

TABLES



Table 1
Summary of Groundwater Elevation Data
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Screened Interval (feet bgs)	TOC Elevation (feet msl) ⁽¹⁾	Total Well Depth (feet below TOC) ⁽²⁾	Date Measured	Depth to Groundwater (feet below TOC) ⁽²⁾	Groundwater Elevation (feet msl) ⁽¹⁾		
Shallow Water-Bearing Zone Wells								
MW01	4 to 19	178.24	18.42	08/05/04	7.91	170.33		
			18.42	11/18/04	7.00	171.24		
			--	01/07/05	5.91	172.33		
			--	05/31/06	6.36	171.88		
			--	06/22/06	8.22	170.02		
			18.15	01/08/07	3.93	174.31		
			18.15	04/20/07	5.38	172.86		
			18.48	11/19/08	6.78	171.46		
			18.37	05/03/10	6.33	171.91		
			--	05/07/10	6.52	171.72		
			--	09/09/14	11.19	167.05		
			17.95	05/09/18	10.05	168.19		
			18.37	10/24/18	15.82	162.42		
			--	01/27/20	12.22	166.02		
			--	04/20/20	12.59	165.65		
			--	07/20/20	12.56	165.68		
			--	10/19/20	12.49	165.75		
			--	01/27/21	12.36	165.88		
			--	04/20/21	12.46	165.78		
			--	07/26/21	12.61	165.63		
			--	10/11/21	12.60	165.64		
			18.28	04/25/22	12.48	165.76		
			--	11/14/22	12.53	165.71		
			--	04/17/23	12.41	165.83		
			--	10/23/23	12.76	165.48		
			--	04/12/24	12.77	165.47		
			--	10/23/24	12.84	165.40		
MW02	5 to 20	176.22	19.48	08/05/04	6.39	169.83		
			19.50	11/18/04	6.41	169.81		
			--	01/07/05	5.88	170.34		
			--	05/31/06	5.75	170.47		
			--	06/22/06	7.01	169.21		
			--	01/08/07	4.56	171.66		
			--	04/20/07	4.90	171.32		
			19.31	11/19/08	6.86	169.36		
			19.45	05/03/10	6.50	169.72		
			--	05/07/10	6.48	169.74		
			--	09/09/14	9.01	167.21		
			19.22	05/09/18	7.62	168.60		
			--	01/27/20	9.59	166.63		
			19.45	10/25/18	14.42	161.80		
			--	01/27/20	9.59	166.63		
			--	04/20/20	10.13	166.09		
			--	07/20/20	9.64	166.58		
			--	10/19/20	9.88	166.34		
			--	01/27/21	9.68	166.54		
			--	04/20/21	9.89	166.33		
			--	07/26/21	10.25	165.97		
			--	10/11/21	9.96	166.26		
			19.42	04/25/22	9.70	166.52		
			--	11/14/22	10.03	166.19		
			--	04/17/23	9.39	166.83		
			--	10/23/23	9.88	166.34		
			--	04/12/24	9.86	166.36		
--	10/23/24	10.16	166.06					
MW03	5 to 20	175.87	19.55	08/05/04	6.56	169.31		
			19.56	11/18/04	6.64	169.23		
			--	01/07/05	5.86	170.01		
			--	05/31/06	2.79	173.08		
			--	06/22/06	3.69	172.18		
			19.54	01/08/07	2.18	173.69		
			19.54	04/20/07	1.96	173.91		
			19.6	11/19/08	2.65	173.22		
			19.45	05/03/10	2.54	173.33		
			--	05/07/10	2.59	173.28		
			--	09/09/14	5.92	169.95		
			19.22	05/09/18	3.44	172.43		
			19.45	10/24/18	14.23	161.64		
			--	01/27/20	8.34	167.53		
			--	04/20/20	9.20	166.67		
			--	07/20/20	9.48	166.39		
			--	10/19/20	9.74	166.13		
			--	01/27/21	9.52	166.35		
			19.45	04/20/21	9.80	166.07		
			--	07/26/21	10.31	165.56		
			--	10/11/21	10.04	165.83		
			19.08	04/25/22	9.77	166.10		
			--	11/14/22	9.84	166.03		
			--	04/17/23	9.20	166.67		
			--	10/23/23	8.21	167.66		
			--	04/12/24	8.81	167.06		
			--	10/23/24	9.31	166.56		
MW04	4 to 18	176.15	18.08	08/05/04	7.66	168.49		
			18.08	11/18/04	7.35	168.80		
			--	01/07/05	6.82	169.33		
			--	05/31/06	7.88	168.27		
			--	06/22/06	8.19	167.96		
			17.95	01/08/07	5.80	170.35		
			17.95	04/20/07	6.49	169.66		
			17.61	11/19/08	8.45	167.70		
			17.54	05/03/10	8.02	168.13		
			--	05/04/10	8.09	168.06		
			--	05/07/10	7.98	168.17		
			--	09/09/14	10.26	165.89		
			Monitoring Well Decommissioned					



Table 1
Summary of Groundwater Elevation Data
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Screened Interval (feet bgs)	TOC Elevation (feet msl) ⁽¹⁾	Total Well Depth (feet below TOC) ⁽²⁾	Date Measured	Depth to Groundwater (feet below TOC) ⁽²⁾	Groundwater Elevation (feet msl) ⁽¹⁾
Shallow Water-Bearing Zone Wells						
MW05	2.5 to 17.5	177.37	17.45	08/05/04	8.71	168.66
			17.45	11/18/04	7.86	169.51
			--	01/07/05	7.15	170.22
			--	05/31/06	7.50	169.87
			--	06/22/06	9.12	168.25
			17.44	01/08/07	2.90	174.47
			17.44	04/20/07	6.63	170.74
			17.47	11/19/08	8.30	169.07
			17.45	05/03/10	7.54	169.83
			--	05/04/10	7.87	169.50
			--	05/07/10	8.01	169.36
			--	09/09/14	10.97	166.40
			15.64	05/09/18	10.02	167.35
			15.62	01/27/20	11.25	166.12
			--	04/20/20	11.49	165.88
			--	07/20/20	11.48	165.89
			14.15	10/19/20	11.34	166.03
			--	01/27/21	10.82	166.55
			14.03	04/21/21	11.35	166.02
			--	07/26/21	11.35	166.02
			--	10/11/21	11.61	165.76
			16.20	04/25/22	11.40	165.97
			--	11/14/22	11.79	165.58
			--	04/17/23	11.31	166.06
			--	10/23/23	11.59	165.78
			--	04/12/24	11.61	165.76
			--	10/23/24	11.74	165.63
MW06	15 to 20	176.26	--	11/18/04	--	--
			--	01/07/05	--	--
			--	05/31/06	--	--
			--	06/22/06	--	--
			--	01/08/07	8.84	167.42
			--	04/20/07	--	--
			19.93	05/03/10	10.4	165.86
			--	05/07/10	10.52	165.74
			--	09/09/14	11.53	164.73
			19.80	05/09/18	11.68	164.58
			19.96	01/28/20	10.12	166.14
			19.97	04/20/20	11.03	165.23
			--	07/21/20	11.02	165.24
			--	10/20/20	11.03	165.23
			--	01/28/21	10.77	165.49
			20.00	04/20/21	10.93	165.33
			--	07/27/21	11.26	165.00
			--	10/11/21	11.07	165.19
			19.95	04/26/22	10.81	165.45
			--	11/14/22	11.19	165.07
			--	04/17/23	10.87	165.39
			--	10/23/23	--	--
			--	04/12/24	11.64	164.62
			--	10/23/24	11.50	164.76
MW15	5 to 20	176.62	18.12	05/31/06	6.76	169.86
			--	06/22/06	7.36	169.26
			18.15	01/08/07	5.63	170.99
			18.15	04/20/07	6.68	169.94
			18.2	11/19/08	9.21	167.41
			18.18	05/03/10	4.23	172.39
			--	05/07/10	4.22	172.40
			--	09/09/14	11.02	165.60
			17.95	05/09/18	10.21	166.41
			--	10/25/18	12.53	164.09
			--	01/27/20	3.69	172.93
			--	04/20/20	6.11	170.51
			--	07/20/20	10.33	166.29
			--	10/19/20	5.99	170.63
			--	01/27/21	4.08	172.54
			--	04/20/21	8.95	167.67
			--	07/26/21	10.83	165.79
			--	10/11/21	4.13	172.49
			18	04/25/22	5.21	171.41
			--	11/14/22	9.97	166.65
			--	04/17/23	3.46	173.16
			--	10/23/23	9.46	167.16
			--	04/12/24	5.64	170.98
			--	10/23/24	9.35	167.27
MW16	5 to 20	175.60	19.45	05/31/06	4.56	171.04
			--	06/22/06	6.21	169.39
			--	01/08/07	3.91	171.69
			--	04/20/07	4.29	171.31
			19.6	11/19/08	5.03	170.57
			19.60	05/03/10	5.30	170.30
			--	05/07/10	5.44	170.16
			--	09/09/14	9.34	166.26
			19.43	05/09/18	5.35	170.25
			18.18	10/22/18	11.36	164.24
			--	01/27/20	3.81	171.79
			--	04/20/20	5.50	170.10
			--	07/20/20	9.13	166.47
			--	10/19/20	4.54	171.06
			--	01/27/21	4.53	171.07
			--	07/26/21	9.97	165.63
			--	10/11/21	6.48	169.12
			19.61	04/25/22	4.65	170.95
			--	11/14/22	5.51	170.09
			--	04/17/23	4.17	171.43
			--	10/23/23	5.33	170.27
			--	04/12/24	4.81	170.79
			--	10/23/24	8.71	166.89



Table 1
Summary of Groundwater Elevation Data
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Screened Interval (feet bgs)	TOC Elevation (feet msl) ⁽¹⁾	Total Well Depth (feet below TOC) ⁽²⁾	Date Measured	Depth to Groundwater (feet below TOC) ⁽²⁾	Groundwater Elevation (feet msl) ⁽¹⁾
Shallow Water-Bearing Zone Wells						
MW17	5 to 20	175.79	19.19	05/31/06	4.29	171.50
			--	06/22/06	5.82	169.97
			--	01/08/07	3.67	172.12
			--	04/20/07	4.03	171.76
			Monitoring Well Decommissioned			
MW19	10 to 20	180.68	19.8	11/20/08	9.68	171.00
			19.72	05/03/10	9.17	171.51
			--	05/04/10	9.54	171.14
			--	05/07/10	9.40	171.28
			--	09/09/14	14.57	166.11
			19.62	05/09/18	13.10	167.58
			19.72	10/24/18	14.54	166.14
			--	01/27/20	12.27	168.41
			--	04/20/20	13.53	167.15
			--	07/20/20	13.70	166.98
			--	10/19/20	13.16	167.52
			--	01/27/21	12.90	167.78
			--	07/26/21	13.98	166.70
			--	10/11/21	14.04	166.64
			19.79	04/25/22	13.19	167.49
			--	11/14/22	13.54	167.14
			--	04/17/23	12.69	167.99
			--	10/23/23	13.08	167.60
			--	04/12/24	13.02	167.66
			--	10/23/24	13.89	166.79
MW21	14 to 24	175.93	23.74	11/19/08	10.21	165.72
			23.74	05/03/10	9.70	166.23
			--	05/07/10	9.73	166.20
			--	09/09/14	11.24	164.69
			23.55	05/09/18	10.28	165.65
			23.74	10/24/18	13.65	162.28
			--	01/27/20	EOS Interference	
			--	04/20/20	EOS Interference	
			--	07/20/20	11.33	164.60
			--	10/19/20	11.80	164.13
			--	01/27/21	10.92	165.01
			23.74	04/20/21	10.92	165.01
			--	07/26/21	11.40	164.53
			--	10/11/21	11.42	164.51
			23.74	04/25/22	10.45	165.48
			--	11/14/22	11.45	164.48
			--	04/17/23	10.84	165.09
			--	10/23/23	12.42	163.51
			--	04/12/24	11.09	164.84
			--	10/23/24	11.39	164.54
MW23	10 to 20	176.03	20.15	11/19/08	10.81	165.22
			20.15	05/03/10	10.17	165.86
			--	05/07/10	10.32	165.71
			Monitoring Well Decommissioned			
MW24	8 to 18	177.62	17.25	11/19/08	9.34	168.28
			17.34	05/03/10	8.89	168.73
			--	05/04/10	8.96	168.66
			--	05/07/10	8.95	168.67
			17.34	09/09/14	12.19	165.43
			17.10	05/09/18	11.88	165.74
			17.34	10/24/18	12.88	164.74
			--	01/27/20	11.04	166.58
			--	04/20/20	12.28	165.34
			--	07/20/20	11.84	165.78
			--	10/19/20	11.33	166.29
			--	01/27/21	11.72	165.90
			--	04/20/21	12.19	165.43
			--	07/26/21	12.53	165.09
			--	10/11/21	12.29	165.33
			17.10	04/25/22	11.99	165.63
			--	11/14/22	12.04	165.58
			--	04/17/23	11.76	165.86
			--	10/23/23	12.02	165.60
			--	04/12/24	11.85	165.77
			--	10/23/24	12.48	165.14
MW25	8 to 18	176.95	18.29	05/03/10	9.85	167.10
			--	05/04/10	10.02	166.93
			--	05/07/10	9.86	167.09
			--	09/09/14	11.85	165.10
			14.75	05/09/18	11.71	165.24
			17.34	10/24/18	12.55	164.40
			14.29	01/28/20	3.10	173.85
		176.82	14.38	04/20/20	12.00	164.95
			14.16	07/21/20	11.65	165.17
			--	10/20/20	11.54	165.28
			--	01/28/21	11.65	165.17
			18.29	04/20/21	11.68	165.14
			--	07/27/21	11.93	164.89
			--	10/11/21	11.78	165.04
			14.33	04/26/22	11.43	165.39
			--	11/14/22	11.76	165.06
			--	04/17/23	9.61	167.21
			--	10/23/23	--	--
			--	04/12/24	11.63	165.19
			--	10/23/24	11.91	164.91



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Plastic Sales and Service Site
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Seattle, Washington

Well ID	Screened Interval (feet bgs)	TOC Elevation (feet msl) ⁽¹⁾	Total Well Depth (feet below TOC) ⁽²⁾	Date Measured	Depth to Groundwater (feet below TOC) ⁽²⁾	Groundwater Elevation (feet msl) ⁽¹⁾
Shallow Water-Bearing Zone Wells						
MW26	8 to 18	177.83	18.18	05/03/10	8.71	169.12
			--	05/04/10	8.81	169.02
			--	05/07/10	8.75	169.08
			18.18	09/09/14	12.63	165.20
			17.82	05/09/18	12.10	165.73
			18.18	10/24/18	13.00	164.83
			--	01/27/20	11.47	166.36
			--	04/20/20	12.29	165.54
			--	07/20/20	11.15	166.68
			--	10/19/20	10.95	166.88
			--	01/27/21	12.05	165.78
			--	04/20/21	12.04	165.79
			--	07/26/21	12.54	165.29
			--	10/11/21	11.99	165.84
			18.02	04/25/22	11.98	165.85
			--	11/14/22	12.12	165.71
			--	04/17/23	11.57	166.26
			--	10/23/23	12.09	165.74
			--	04/12/24	11.50	166.33
--	10/23/24	12.43	165.40			
TMW01	8 to 18	176.98	18.75	04/05/10	5.12	171.86
			18.80	05/04/10	5.27	171.71
			--	05/07/10	5.31	171.67
TMW02	8 to 18	176.91	18.79	04/05/10	5.62	171.29
			18.83	05/04/10	6.31	170.60
			--	05/07/10	6.25	170.66
TMW03	8 to 18	177.14	18.22	04/05/10	6.96	170.18
			18.25	05/04/10	7.53	169.61
			--	05/07/10	7.52	169.62
MW27	8.5 to 13.5	--	13.5	06/28/11	--	--
			--	09/09/14	11.54	--
			12.90	05/09/18	10.80	--
			13.16	01/28/20	10.89	--
		175.91	13.15	04/20/20	11.37	--
			13.15	07/21/20	11.26	164.65
			13.16	10/20/20	11.39	164.52
			13.10	01/28/21	11.25	164.66
			13.10	04/20/21	11.24	164.67
			13.10	07/27/21	11.13	164.78
			--	10/11/21	11.46	164.45
			13.12	04/26/22	11.33	164.58
			--	11/14/22	11.51	164.40
			--	04/17/23	11.09	164.82
			--	--	--	--
--	04/12/24	11.40	164.51			
--	10/23/24	11.47	164.44			
MW28	5 to 18	176.09	--	01/27/20	10.38	165.71
			--	04/20/20	10.66	165.43
			--	07/20/20	10.71	165.38
			--	10/19/20	10.75	165.34
			--	01/27/21	10.54	165.55
			18.61	04/21/21	10.51	165.58
			--	07/26/21	10.82	165.27
			--	10/11/21	10.77	165.32
			18.59	04/25/22	10.51	165.58
			--	11/14/22	10.85	165.24
			--	04/17/23	10.35	165.74
			--	10/23/23	10.68	165.41
			--	04/12/24	10.60	165.49
			--	10/23/24	10.93	165.16
MW30	5 to 20	175.73	--	01/27/21	13.58	162.15
			--	04/19/21	2.67	173.06
			--	04/20/21	Too Much EOS	
			--	04/21/21		
			--	04/22/21		
			--	04/23/21		
			--	04/24/21		
			--	07/26/21	10.18	165.55
			--	10/11/21	11.04	164.69
			20.09	04/25/22	5.00	170.73
			--	11/14/22	9.90	165.83
			--	04/17/23	4.70	171.03
			--	10/23/23	10.54	165.19
			--	04/12/24	6.51	169.22
--	10/23/24	12.08	163.65			
MW32	15 to 25	175.63	--	11/14/22	13.02	162.61
			--	04/17/23	12.51	163.12
			--	10/23/23	13.08	162.55
			--	04/12/24	12.66	162.97
			--	10/23/24	13.24	162.39
MW34	15 to 25	175.58	--	11/14/22	12.98	162.60
			--	04/17/23	12.55	163.03
			--	10/23/23	13.10	162.48
			--	04/12/24	12.65	162.93
			--	10/23/24	13.30	162.28
MW36	15 to 25	175.30	--	11/14/22	13.44	161.86
			--	04/17/23	12.84	162.46
			--	10/23/23	13.54	161.76
			--	04/12/24	12.93	162.37
			--	10/23/24	13.72	161.58
MW07	21 to 31	176.56	31.00	12/06/04	7.45	169.11
			--	01/07/05	7.30	169.26
			--	05/31/06	8.09	168.47
			--	06/22/06	8.42	168.14
			31.01	01/08/07	6.52	170.04
		176.59	--	04/20/07	7.00	169.59
			30.67	11/19/08	8.38	168.21
			30.84	05/03/10	7.99	168.60
			--	05/07/10	8.04	168.55
			--	09/09/14	10.37	166.22
Monitoring Well Decommissioned						



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Well ID	Screened Interval (feet bgs)	TOC Elevation (feet msl) ⁽¹⁾	Total Well Depth (feet below TOC) ⁽²⁾	Date Measured	Depth to Groundwater (feet below TOC) ⁽²⁾	Groundwater Elevation (feet msl) ⁽¹⁾
Deep Water-Bearing Zone Wells						
MW08	30 to 40	175.90	40.09	12/06/04	6.55	169.35
			--	01/07/05	6.34	169.56
			--	05/31/06	6.35	169.55
			--	06/22/06	7.55	168.35
			40.09	01/08/07	5.54	170.36
			40.09	01/08/07	5.98	169.92
			40.15	11/19/08	9.00	166.90
			40.15	05/03/10	8.49	167.41
			--	05/07/10	8.51	167.39
			--	09/09/14	10.32	165.58
			39.96	05/09/18	9.35	166.55
			40.15	10/25/18	10.38	165.52
			--	01/28/20	10.21	165.69
			--	04/20/20	10.43	165.47
			--	07/20/20	10.58	165.32
			--	10/19/20	10.64	165.26
			--	01/27/21	10.26	165.64
			--	04/20/21	10.32	165.58
			--	07/26/21	10.63	165.27
			--	10/11/21	10.65	165.25
			40.19	04/25/22	10.24	165.66
			--	11/14/22	10.66	165.24
			--	04/17/23	10.09	165.81
			--	10/23/23	10.71	165.19
			--	04/12/24	10.23	165.67
			--	10/23/24	10.73	165.17
MW09	30 to 40	176.43	39.81	12/06/04	6.81	169.62
			--	01/07/05	6.49	169.94
			--	05/31/06	6.34	170.09
			--	06/22/06	7.48	168.95
			39.75	01/08/07	5.85	170.58
			39.75	04/20/07	6.01	170.42
			39.81	11/19/08	7.30	169.13
			39.80	05/03/10	6.74	169.69
			--	05/07/10	6.73	169.70
			--	09/09/14	9.25	167.18
			39.60	05/09/18	5.50	170.93
			39.80	10/25/18	12.92	163.51
			--	01/27/20	9.67	166.76
			--	04/20/20	9.87	166.56
			--	07/20/20	10.19	166.24
			--	10/19/20	10.38	166.05
			--	01/27/21	10.18	166.25
			40.00	04/20/21	10.16	166.27
			--	07/26/21	10.56	165.87
			--	10/11/21	10.47	165.96
			39.82	04/25/22	10.10	166.33
			--	11/14/22	10.54	165.89
			--	04/17/23	10.05	166.38
			--	10/23/23	10.63	165.80
			--	04/12/24	9.88	166.55
			--	10/23/24	10.28	166.15
MW10	30 to 40	176.01	39.98	12/06/04	7.12	168.89
			--	01/07/05	6.89	169.12
			--	05/31/06	6.99	169.02
			--	06/22/06	8.12	167.89
			--	01/08/07	6.05	169.96
			--	04/20/07	6.57	169.44
			40.01	11/19/08	10.21	165.80
			40.00	05/03/10	9.72	166.29
			--	05/07/10	9.75	166.26
			--	09/09/14	11.26	164.75
			39.82	05/09/18	10.32	165.69
			40.00	10/25/18	13.81	162.20
			--	01/27/20	10.95	165.06
			--	04/20/20	11.18	164.83
			--	07/20/20	11.35	164.66
			--	10/19/20	11.43	164.58
			--	01/27/21	11.02	164.99
			40.00	04/20/21	11.11	164.90
			--	07/26/21	11.42	164.59
			--	10/11/21	11.44	164.57
			40.02	04/25/22	10.99	165.02
			--	11/14/22	11.47	164.54
			--	04/17/23	10.85	165.16
			--	10/23/23	11.45	164.56
			--	04/12/24	11.01	165.00
			--	10/23/24	11.54	164.47
MW11	57.5 to 67.5	178.99	64.30	05/31/06	7.71	171.28
			--	06/22/06	8.78	170.21
			64.28	01/08/07	7.30	171.69
			64.28	04/20/07	7.38	171.61
			65.30	11/19/08	8.34	170.65
			65.24	05/03/10	7.73	171.26
			--	05/07/10	7.69	171.30
			64.91	09/09/14	11.00	167.99
			--	05/09/18	Inaccessible	
			--	01/27/20	Inaccessible	
			--	04/20/20	10.80	168.19
			--	07/20/20	10.89	168.10
			--	10/19/20	11.09	167.90
			--	01/27/21	10.66	168.33
			--	07/26/21	10.83	168.16
			--	10/11/21	11.06	167.93
			66.32	04/25/22	10.61	168.38
			--	11/14/22	10.90	168.09
			--	04/17/23	10.58	168.41
			--	10/23/23	11.09	167.90
			--	04/12/24	10.64	168.35
			--	10/23/24	11.03	167.96



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Well ID	Screened Interval (feet bgs)	TOC Elevation (feet msl) ⁽¹⁾	Total Well Depth (feet below TOC) ⁽²⁾	Date Measured	Depth to Groundwater (feet below TOC) ⁽²⁾	Groundwater Elevation (feet msl) ⁽¹⁾
Deep Water-Bearing Zone Wells						
MW12	57 to 67	176.95	62.51	05/31/06	7.31	169.64
			--	06/22/06	8.40	168.55
			66.55	01/08/07	7.04	169.91
			66.55	04/20/07	7.05	169.90
			66.10	11/19/08	7.92	169.03
			65.78	05/03/10	7.35	169.60
			--	05/07/10	7.32	169.63
			--	09/09/14	9.38	167.57
			65.60	05/09/18	8.67	168.28
			65.78	10/25/18	11.47	165.48
			--	01/27/20	9.30	167.65
			--	04/20/20	9.22	167.73
			--	07/20/20	9.31	167.64
			--	10/19/20	9.54	167.41
			--	01/27/21	9.10	167.85
			--	07/26/21	9.31	167.64
			--	10/11/21	9.54	167.41
			66.91	04/25/22	9.07	167.88
			--	11/14/22	9.41	167.54
			--	04/17/23	9.06	167.89
			--	10/23/23	9.55	167.40
--	04/12/24	9.09	167.86			
--	10/23/24	9.49	167.46			
MW13	55.5 to 65.5	177.03	62.90	05/31/06	6.31	170.72
			--	06/22/06	7.40	169.63
			66.18	01/08/07	5.96	171.07
			66.18	04/20/07	6.01	171.02
			66.22	11/19/08	6.95	170.08
			66.21	05/03/10	6.35	170.68
			--	05/07/10	6.30	170.73
			--	09/09/14	9.02	168.01
			66.05	05/09/18	8.26	168.77
			66.21	10/25/18	12.69	164.34
			--	01/27/20	8.96	168.07
			--	04/20/20	8.88	168.15
			--	07/20/20	8.94	168.09
			--	10/19/20	9.17	167.86
			--	01/27/21	8.74	168.29
			--	07/26/21	8.90	168.13
			--	10/11/21	9.15	167.88
			66.25	04/25/22	8.71	168.32
			--	11/14/22	9.00	168.03
			--	04/17/23	8.67	168.36
			--	10/23/23	9.17	167.86
--	04/12/24	8.75	168.28			
--	10/23/24	9.11	167.92			
MW14	63 to 73	176.50	72.81	05/31/06	6.55	169.95
			--	06/22/06	6.65	169.85
			71.8	01/08/07	5.18	171.32
		176.72	--	04/20/07	5.47	171.25
			72.16	11/19/08	6.45	170.27
			72.05	05/03/10	5.86	170.86
			--	05/07/10	5.81	170.91
			--	09/09/14	8.74	167.98
			Monitoring Well Decommissioned			
MW18	68 to 78	175.91	77.42	05/31/06	6.89	169.02
			--	06/22/06	7.84	168.07
			78.05	01/08/07	6.04	169.87
			78.05	04/20/07	6.26	169.65
			Monitoring Well Decommissioned			
MW20	40 to 50	177.62	49.19	11/19/08	7.16	170.46
			48.49	05/03/10	6.56	171.06
			--	05/07/10	6.50	171.12
			Monitoring Well Decommissioned			
MW22	39.5 to 49.5	177.23	49.2	11/19/08	7.18	170.05
			49.20	05/03/10	6.59	170.64
			--	05/07/10	6.53	170.70
			--	09/09/14	9.44	167.79
			48.40	05/09/18	8.64	168.59
			49.20	10/24/18	12.88	164.35
			--	01/27/20	9.32	167.91
			--	04/20/20	9.27	167.96
			--	07/20/20	9.34	167.89
			--	10/19/20	9.54	167.69
			--	01/27/21	9.12	168.11
			--	04/20/21	9.12	168.11
			--	07/26/21	9.28	167.95
			--	10/11/21	9.54	167.69
			49.44	04/25/22	9.07	168.16
			--	11/14/22	9.43	167.80
			--	04/17/23	9.04	168.19
			--	10/23/23	9.55	167.68
			--	04/12/24	9.07	168.16
			--	10/23/24	9.47	167.76
MW29	25 to 65	176.27	--	01/27/20	10.49	165.78
			--	04/20/20	8.34	167.93
			--	07/20/20	8.30	167.97
			--	10/19/20	8.53	167.74
			--	01/27/21	8.12	168.15
			64.35	04/20/21	8.21	168.06
			--	07/26/21	8.29	167.98
			--	10/11/21	8.55	167.72
			--	04/26/22	8.04	168.23
			--	11/14/22	8.45	167.82
			--	04/17/23	8.01	168.26
			--	10/23/23	8.52	167.75
			--	04/12/24	8.06	168.21
			--	10/23/24	8.46	167.81



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Deep Water-Bearing Zone Wells						
MW31	30 to 45	175.7	--	01/27/21	11.82	163.88
			--	04/19/21	11.56	164.14
			--	07/26/21	12.20	163.50
			--	10/11/21	12.24	163.46
			45.66	04/25/22	11.76	163.94
			--	11/14/22	12.24	163.46
			--	04/17/23	11.65	164.05
			--	10/23/23	12.24	163.46
			--	04/12/24	11.74	163.96
			--	10/23/24	12.35	163.35
MW33	35 to 45	175.59	--	11/14/22	12.66	162.93
			--	04/17/23	12.09	163.50
			--	10/23/23	12.67	162.92
			--	04/12/24	12.17	163.42
			--	10/23/24	12.77	162.82
MW35	35 to 45	175.44	--	11/14/22	13.14	162.30
			--	04/17/23	12.51	162.93
			--	10/23/23	12.41	163.03
			--	04/12/24	12.50	162.94
			--	10/23/24	13.14	162.30
MW37	35 to 45	175.28	--	11/14/22	13.62	161.66
			--	04/17/23	12.95	162.33
			--	10/23/23	13.62	161.66
			--	04/12/24	13.00	162.28
			--	10/23/24	13.73	161.55

NOTES:

⁽¹⁾Initial elevation data for wells obtained from the Draft Final Remedial Investigation/Feasibility Study Report prepared by Farallon and dated July 2013. Farallon survey based on North American Vertical Datum of 1988.

⁽²⁾As measured from a fixed spot on the well TOC.

-- = not measured
bgs = below ground surface
Farallon = Farallon Consulting LLC
msl = mean sea level
TOC = top of casing



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sampled By	Sample Date	Sample Point Depth (feet bgs)	Analytical Results ⁽¹⁾ (micrograms per liter)				
					PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
Shallow Water-Bearing Zone Wells									
MW01	MW-1	GeoEngineers	10/30/03	--	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	MW1-060206	Farallon	06/02/06	16.42	1.1	< 0.20	< 0.20	< 0.20	< 0.20
	MW1-112008	Farallon	11/20/08	16.48	1.5	< 0.20	< 0.20	< 0.20	< 0.20
	MW1-050410	Farallon	05/04/10	11.50	1.8	< 0.20	< 0.20	< 0.20	< 0.20
	MW01-20140910	SoundEarth	09/10/14	13.50	1.6	< 0.20	< 0.20	< 0.20	< 0.20
	MW01-20181024	SoundEarth	10/24/18	11.50	0.85	< 0.20	< 0.20	< 0.20	< 0.20
	MW01-20200129	SoundEarth	01/29/20	14.50	1.8	< 0.20	< 0.20	< 0.20	< 0.20
	MW01-20200421	SoundEarth	04/21/20	15.50	1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW01-20200721	SoundEarth	07/21/20	15.50	1.3	< 0.20	< 0.20	< 0.20	< 0.20
	MW01-20201020	SoundEarth	10/20/20	15.50	2.1	< 0.20	< 0.20	< 0.20	< 0.20
	MW01-20210128	SoundEarth	01/28/21	15.50	1.4	< 0.20	< 0.20	< 0.20	< 0.20
	MW01-20210420	SoundEarth	04/20/21	15.00	1.2	< 0.20	< 0.20	< 0.20	< 0.20
	MW01-20210727	SoundEarth	07/27/21	15.50	1.1	< 0.20	< 0.20	< 0.20	< 0.20
	MW01-20211012	SoundEarth	10/12/21	16.00	1.3	< 0.20	< 0.20	< 0.20	< 0.10
	MW01-20220427	SoundEarth	04/27/22	15.00	1.1	< 0.20	< 0.20	< 0.20	< 0.20
	MW01-20221117	SoundEarth	11/17/22	15.00	1.3	< 0.20	< 0.20	< 0.20	< 0.20
MW01-20230419	SoundEarth	04/19/23	15.00	1.2	< 0.20	< 0.20	< 0.20	< 0.20	
MW01-20231025	SoundEarth	10/25/23	15.50	1.4	< 0.20	< 0.20	< 0.20	< 0.20	
MW02	MW-2	GeoEngineers	10/30/03	--	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	MW2-060106	Farallon	06/01/06	17.50	< 0.20	5.5	< 0.20	< 0.20	< 0.20
	MW2-111908	Farallon	11/19/08	17.31	6.8	4.6	< 0.20	< 0.20	< 0.20
	MW2-050410	Farallon	05/04/10	12.50	9.5	3.5	< 0.20	< 0.20	< 0.20
	MW02-20140910	SoundEarth	09/10/14	11.50	4.0	0.49	< 0.20	< 0.20	< 0.20
	MW02-20181025	SoundEarth	10/25/18	12.50	1.7	0.61	< 0.20	< 0.20	< 0.20
	MW02-20200129	SoundEarth	01/29/20	13.00	1.1	0.80	< 0.20	< 0.20	< 0.20
	MW02-20200421	SoundEarth	04/21/20	13.00	1.3	0.53	< 0.20	< 0.20	< 0.20
	MW02-20200721	SoundEarth	07/21/20	13.00	2.0	1.1	< 0.20	< 0.20	< 0.20
	MW02-20201020	SoundEarth	10/20/20	13.00	2.7	1.2	< 0.20	< 0.20	< 0.20
	MW02-20210128	SoundEarth	01/28/21	13.00	1.4	0.63	< 0.20	< 0.20	< 0.20
	MW02-20210420	SoundEarth	04/20/21	12.00	1.4	0.47	< 0.20	< 0.20	< 0.20
	MW02-20210727	SoundEarth	07/27/21	13.25	1.6	0.58	< 0.20	< 0.20	< 0.20
	MW02-20211012	SoundEarth	10/12/21	15.00	1.7	0.68	< 0.20	< 0.20	< 0.10
	MW02-20220427	SoundEarth	04/27/22	15.00	0.95	0.54	< 0.20	< 0.20	< 0.20
	MW02-20221117	SoundEarth	11/17/22	13.00	1.6	0.70	< 0.20	< 0.20	< 0.20
MW02-20230419	SoundEarth	04/19/23	12.00	1.0	0.72	< 0.20	< 0.20	< 0.20	
MW02-20231025	SoundEarth	10/25/23	12.00	1.9	1.3	< 0.20	< 0.20	< 0.20	
MW03	MW-3	GeoEngineers	10/30/03	--	170	< 2.0	< 2.0	< 2.0	< 2.0
	MW3-060106	Farallon	06/01/06	17.56	150	1.1	< 1.0	< 1.0	< 1.0
	MW3-111908	Farallon	11/19/08	17.60	230	1.6	2.0	< 1.0	< 1.0
	MW3-050410	Farallon	05/04/10	12.50	150	< 1.0	< 1.0	< 1.0	< 1.0
	MW03-20140910	SoundEarth	09/10/14	8.50	64	0.58	0.79	< 0.20	< 0.20
	MW03-20181025	SoundEarth	10/25/18	12.50	54	0.61	< 0.40	< 0.40	< 0.40
	MW03-20200129	SoundEarth	01/29/20	11.00	< 0.40	< 0.40	44	0.57	16
	MW03-20200421	SoundEarth	04/21/20	12.50	< 0.20	0.20	6.3	0.55	7.4
	MW03-20200720	SoundEarth	07/20/20	12.50	< 0.20	0.36	13	0.65	13
	MW03-20201020	SoundEarth	10/20/20	12.50	< 0.20	0.57	13	0.48	7.3
	MW03-20210128	SoundEarth	01/28/21	12.50	< 0.20	0.68	7.8	0.42	4.2
	MW03-20210420	SoundEarth	04/20/21	13.00	< 0.20	0.61	7.0	0.54	3.4
	MW03-20210727	SoundEarth	07/27/21	13.30	< 0.20	0.45	2.1	0.31	2.1
	MW03-20211012	SoundEarth	10/12/21	15.00	< 0.20	0.42	2.7	0.23	1.8
	MW03-20220425P*	SoundEarth	04/25/22	12.00	< 0.20	0.54	4.1	0.36	2.7
	MW03-20220427	SoundEarth	04/27/22	15.00	< 0.20	0.81	6.6	0.35	2.6
	MW03-20221114P*	SoundEarth	11/14/22	12.00	< 0.20	0.64	5.2	< 0.20	1.9
	MW03-20221117	SoundEarth	11/17/22	13.00	< 0.20	1.2	5.6	< 0.20	1.9
	MW03-20230419	SoundEarth	04/19/23	12.00	0.88	4.0	5.4	< 0.20	1.1
MW03-20231025	SoundEarth	10/25/23	11.00	22	6.9	27	0.21	2.3	
MW03-20231113	SoundEarth	11/13/23	11.00	14	4.1	21	< 0.20	1.6	
MW03-20240416	SoundEarth	04/16/24	13.00	2.7	3.3	19	< 0.20	1.8	
MW03-20241028	SoundEarth	10/28/24	12.00	6.7	3.9	6.0	< 0.20	0.50	
MW04	MW-4	GeoEngineers	10/30/03	--	2,100	220	92	< 2.0	20
	MW4-080504	Farallon	08/05/04	16.00	860	1,200	250	< 10	68
	MW4-060206	Farallon	06/02/06	16.08	1,100	730	590	< 10	170
	MW4-042007	Farallon	04/20/07	14.95	3,100	720	940	< 20	160
	MW4-112008	Farallon	11/20/08	15.61	10,000	640	1,100	< 50	130
	MW4-050510	Farallon	05/05/10	11.00	10,000	1,000	1,600	< 50	370
	MW04-20140910	SoundEarth	09/10/14	12.50	28,000	3,400	3,800	< 200	920
Monitoring Well Decommissioned									
MTCA Cleanup Levels for Groundwater					5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾
Commercial Remediation Levels for Groundwater					120 ⁽⁴⁾	12 ⁽⁴⁾	NE	650 ⁽⁴⁾	1.6 ⁽⁴⁾
Roadway Excavation Remediation Levels for Groundwater					760 ⁽⁴⁾	40 ⁽⁴⁾	NE	4,200 ⁽⁴⁾	9.9 ⁽⁴⁾



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sampled By	Sample Date	Sample Point Depth (feet bgs)	Analytical Results ⁽¹⁾ (micrograms per liter)				
					PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
MW05	MW-5	GeoEngineers	10/30/03	--	270	46	< 2.0	< 2.0	< 2.0
	MW5-060106	Farallon	06/01/06	15.45	54	9.6	3.3	< 0.40	< 0.40
	MW5-20080328	SoundEarth	03/28/08	--	19	110	40	< 1.0	2.8
	MW5-112008	Farallon	11/20/08	15.47	86	67	37	1.4	5.5
	MW5-050410	Farallon	05/04/10	10.00	82	34	27	0.44	0.88
	MW05-20140911	SoundEarth	09/11/14	13.50	71	22	5.6	0.27	< 0.20
	MW05-20190207	SoundEarth	02/07/19	14.00	36	7.6	1.7	< 0.20	< 0.20
	MW05-20200128	SoundEarth	01/28/20	13.50	3.4	1.4	130	< 1.0	10
	MW05-20200421	SoundEarth	04/21/20	14.50	2.3	1.2	170	1.3	29
	MW05-20200720	SoundEarth	07/20/20	14.50	1.1	< 1.0	220	1.6	56
	MW05-20201020	SoundEarth	10/20/20	14.50	1.1	1.1	200	2.1	83
	MW05-20210128	SoundEarth	01/28/21	14.50	0.8	< 0.8	69	1.6	92
	MW05-20210421	SoundEarth	04/21/21	13.75	< 0.40	0.43	45	1.1	60
	MW05-20210727	SoundEarth	07/27/21	14.30	< 0.40	0.70	28	0.91	62
	MW05-20211013	SoundEarth	10/13/21	15.00	< 0.80	< 0.80	10	< 0.80	56
	MW05-20220425P*	SoundEarth	04/25/22	14.00	< 0.20	0.50	3.5	0.27	31
	MW05-20220427	SoundEarth	04/27/22	15.00	< 0.20	< 0.20	0.81	< 0.20	3.4
	MW05-20221114P*	SoundEarth	11/14/22	14.00	< 0.20	0.50	1.4	0.26	26
	MW05-20221117	SoundEarth	11/17/22	14.00	< 0.20	0.46	1.0	< 0.20	9.4
	MW05-20230420	SoundEarth	04/20/23	14.50	< 0.20	0.24	0.54	< 0.20	4.1
MW05-20231026	SoundEarth	10/26/23	14.00	< 0.20	0.35	0.72	< 0.20	1.7	
MW05-20240416	SoundEarth	04/16/24	14.00	< 0.20	< 0.20	0.50	< 0.20	0.74	
MW05-20241028	SoundEarth	10/28/24	15.00	< 0.20	< 0.20	0.68	< 0.20	0.75	
MW06	MW-6	GeoEngineers	11/08/04	--	29	18	11	< 2.0	6.0
	MW6-050410	Farallon	05/04/10	14.50	4,100	330	440	< 20	110
	MW06-20141007	SoundEarth	10/07/14	17.50	10,000	450	320	< 50	72
	MW06-20190207	SoundEarth	02/07/19	17.50	1,800	510	600	< 50	170
	MW06-20200128	SoundEarth	01/28/20	17.00	38	130	210	< 0.20	33
	MW06-20200421	SoundEarth	04/21/20	17.50	1.2	8.7	42	0.89	26
	MW06-20200721	SoundEarth	07/21/20	17.50	1.1	10	32	0.86	25
	MW06-20201020	SoundEarth	10/20/20	17.50	1.7	29	63	0.90	36
	MW06-20210128	SoundEarth	01/28/21	17.50	2.4	30	74	1.0	59
	MW06-20210420	SoundEarth	04/20/21	18.00	1.6	27	120	1.6	160
	MW06-20210727	SoundEarth	07/27/21	14.00	0.93	8.8	14	0.45	10
	MW06-20211012	SoundEarth	10/12/21	17.50	0.33	2.0	18	0.35	14
	MW06-20220426	SoundEarth	04/26/22	18.00	11.00	27.0	20	0.68	13
	(MW06 DUP) MW99-20220426	SoundEarth	04/26/22	18.00	5.30	16.0	20	0.67	16
	MW06-20221115	SoundEarth	11/15/22	18.00	0.67	7.4	20	0.42	20
	(MW06 DUP) MW99-20221115	SoundEarth	11/15/22	18.00	0.57	5.3	17	0.39	17
	MW06-20230418	SoundEarth	04/18/23	18.00	17	40	51	< 0.80	85
	(MW06 DUP) MW99-20230418	SoundEarth	04/18/23	18.00	14	35	50	< 0.80	98
	MW06-20231024	SoundEarth	10/24/23	17.50	17	33	48	< 0.80	72
	(MW06 DUP) MW99-20231024	SoundEarth	10/24/23	17.50	17	35	51	< 0.80	80
MW06-20240415	SoundEarth	04/15/24	18.00	2.1	6.9	40	0.49	32	
(MW06 DUP) MW99-20240415	SoundEarth	04/15/24	18.00	1.9	5.5	42	0.49	72	
(Re-Analysis) MW06-20240415	SoundEarth	04/15/24	18.00	2.8	8.5	50	0.53	53	
MW06-20241025	SoundEarth	10/25/24	18.00	0.98	1.8	19	0.21	23	
(MW06 DUP) MW99-20241025	SoundEarth	10/25/24	18.00	0.61	1.4	15	< 0.20	13	
MW15	MW15-060106	Farallon	06/01/06	16.12	0.22	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-112008	Farallon	11/20/08	13.20	0.26	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-050410	Farallon	05/04/10	12.50	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-20140910	SoundEarth	09/10/14	17.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-20181022	SoundEarth	10/22/18	12.50	0.78	< 0.20	0.87	< 0.20	< 0.20
	MW15-20200128	SoundEarth	01/28/20	12.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-20200421	SoundEarth	04/21/20	10.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-20200721	SoundEarth	07/21/20	10.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-20201019	SoundEarth	10/19/20	10.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-20210127	SoundEarth	01/27/21	10.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-20210420	SoundEarth	04/20/21	12.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-20210726	SoundEarth	07/26/21	13.50	0.63	0.32	0.62	< 0.20	< 0.20
	MW15-20211012	SoundEarth	10/12/21	15.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.10
	MW15-20220426	SoundEarth	04/26/22	15.00	< 0.20	< 0.20	0.25	< 0.20	< 0.20
	MW15-20221116	SoundEarth	11/16/22	13.50	< 0.20	< 0.20	< 0.20	< 0.20	0.26
	MW15-20230419	SoundEarth	04/19/23	12.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-20231025	SoundEarth	10/25/23	16.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW15-20240415	SoundEarth	04/15/24	10.50	< 2.0	< 2.0	13	< 2.0	1.6
MW15-20241028	SoundEarth	10/28/24	12.50	< 0.20	< 0.20	2.4	< 0.20	0.60	
MW16	MW16-060106	Farallon	06/01/06	17.45	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW16-111908	Farallon	11/19/08	17.60	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW16-050510	Farallon	05/05/10	12.50	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW16-20140909	SoundEarth	09/09/14	12.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW16-20181022	SoundEarth	10/22/18	12.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW17	MW17-060106	Farallon	06/01/06	17.19	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	Monitoring Well Decommissioned								
MTCA Cleanup Levels for Groundwater					5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾
Commercial Remediation Levels for Groundwater					120 ⁽⁴⁾	12 ⁽⁴⁾	NE	650 ⁽⁴⁾	1.6 ⁽⁴⁾
Roadway Excavation Remediation Levels for Groundwater					760 ⁽⁴⁾	40 ⁽⁴⁾	NE	4,200 ⁽⁴⁾	9.9 ⁽⁴⁾



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sampled By	Sample Date	Sample Point Depth (feet bgs)	Analytical Results ⁽¹⁾ (micrograms per liter)				
					PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
MW19	MW17-20080328	SoundEarth	03/28/08	--	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20
	MW19-20090311	SoundEarth	03/11/09	--	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20
	MW19-050310	Farallon	05/03/10	15.00	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW19-20140909	SoundEarth	09/09/14	17.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW19-20181024	SoundEarth	10/24/18	15.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW21	MW21-112008	Farallon	11/20/08	21.74	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW21-050410	Farallon	05/04/10	19.00	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW21-20140909	SoundEarth	09/09/14	19.00	< 0.20	< 0.20	< 0.20	< 0.20	0.73
	MW21-20181022	SoundEarth	10/22/18	19.00	< 0.20	< 0.20	1.7	< 0.20	0.37
	MW21-20200129	SoundEarth	01/29/20	19.00	0.67	< 0.20	8.0	< 0.20	1.9
	MW21-20200421	SoundEarth	04/21/20	19.00	< 0.20	< 0.20	3.9	< 0.20	3.0
	MW21-20200722	SoundEarth	07/22/20	19.00	< 0.20	< 0.20	4.4	< 0.20	2.3
	MW21-20201020	SoundEarth	10/20/20	19.00	0.22	< 0.20	2.6	< 0.20	4.5
	MW21-20210128	SoundEarth	01/28/21	19.00	< 0.20	< 0.20	2.0	< 0.20	2.8
	MW21-20210420	SoundEarth	04/20/21	19.00	< 0.20	< 0.20	1.7	< 0.20	2.4
	MW21-20210727	SoundEarth	07/27/21	19.00	< 0.20	< 0.20	0.23	< 0.20	0.56
	MW21-20211012	SoundEarth	10/12/21	18.00	< 0.20	< 0.20	0.29	< 0.20	0.67
	MW21-20220426	SoundEarth	04/26/22	19.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW21-20221117	SoundEarth	11/17/22	19.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW21-20230420	SoundEarth	04/20/23	19.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW21-20231025	SoundEarth	10/25/23	19.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW21-20240416	SoundEarth	04/16/24	19.00	< 2.0	< 2.0	2.0	< 2.0	0.35
	MW21-20241024	SoundEarth	10/24/24	17.00	< 0.20	< 0.20	0.60	< 0.20	< 0.20
MW23	MW23-112008	Farallon	11/20/08	18.15	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW23-050410	Farallon	05/04/10	15.00	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
Monitoring Well Decommissioned									
MW24	MW18-20080328	SoundEarth	03/28/08	--	650	< 10	< 10	< 10	< 2.0
	MW24-112008	Farallon	11/20/08	15.25	360	3.4	< 2.0	< 2.0	< 2.0
	MW24-20090304	Farallon	03/04/09	--	290	< 10	< 10	< 10	< 2.0
	MW24-050510	Farallon	05/05/10	13.00	40	0.42	< 0.20	< 0.20	< 0.20
	MW24-20140910	SoundEarth	09/10/14	15.00	17	0.27	< 0.20	< 0.20	< 0.20
	MW24-20181024	SoundEarth	10/24/18	13.00	20	0.24	< 0.20	< 0.20	< 0.20
	MW24-20200129	SoundEarth	01/29/20	14.00	1.2	< 0.20	2.4	< 0.20	< 0.20
	MW24-20200421	SoundEarth	04/21/20	15.50	1.3	< 0.20	2.7	< 0.20	< 0.20
	MW24-20200721	SoundEarth	07/21/20	15.50	1.1	< 0.20	6.0	< 0.20	0.25
	MW24-20201019	SoundEarth	10/19/20	15.50	0.92	< 0.20	8.6	< 0.20	0.43
	MW24-20210128	SoundEarth	01/28/21	15.50	0.64	< 0.20	1.7	< 0.20	< 0.20
	MW24-20210420	SoundEarth	04/20/21	15.00	0.47	< 0.20	3.8	< 0.20	0.30
	MW24-20210726	SoundEarth	07/26/21	15.00	0.39	< 0.20	5.4	< 0.20	0.49
	MW24-20211012	SoundEarth	10/12/21	15.00	0.35	< 0.20	5.4	< 0.20	0.65
	MW24-20220427	SoundEarth	04/27/22	15.00	0.22	< 0.20	3.0	< 0.20	0.64
	MW24-20221116	SoundEarth	11/16/22	15.00	0.23	< 0.20	0.38	< 0.20	2.5
	MW24-20230419	SoundEarth	04/19/23	14.00	< 0.20	< 0.20	0.24	< 0.20	2.0
	MW24-20231026	SoundEarth	10/26/23	16.00	0.35	< 0.20	0.31	< 0.20	0.88
	MW24-20240416	SoundEarth	04/16/24	14.50	0.32	< 0.20	0.23	< 0.20	0.71
	MW24-20241028	SoundEarth	10/28/24	15.00	0.32	< 0.20	< 0.20	< 0.20	0.90
MW25	MW25-050410	Farallon	05/04/10	13.00	14	0.31	1.1	< 0.20	< 0.20
	MW25-20141007	SoundEarth	10/07/14	14.00	12	0.36	0.37	< 0.20	< 0.20
	MW25-20181025	SoundEarth	10/25/18	13.00	0.28	< 0.20	0.75	< 0.20	< 0.20
	MW25-20200421	SoundEarth	04/21/20	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW25-20200721	SoundEarth	07/21/20	13.00	0.20	0.50	0.45	< 0.20	< 0.20
	MW25-20201020	SoundEarth	10/20/20	13.00	1.6	0.59	1.4	< 0.20	< 0.20
	MW25-20210128	SoundEarth	01/28/21	13.00	2.0	1.0	0.80	< 0.20	< 0.20
	MW25-20210420	SoundEarth	04/20/21	14.00	2.9	0.8	0.68	< 0.20	< 0.20
	MW25-20210727	SoundEarth	07/27/21	15.00	0.97	0.31	1.5	< 0.20	< 0.20
	MW25-20211012	SoundEarth	10/12/21	14.00	0.47	0.34	0.47	< 0.20	< 0.10
	MW25-20220426	SoundEarth	04/26/22	14.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW25-20221115	SoundEarth	11/15/22	15.00	< 0.20	< 0.20	0.23	< 0.20	< 0.20
	MW25-20230418	SoundEarth	04/18/23	12.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW25-20231024	SoundEarth	10/24/23	14.00	< 0.20	< 0.20	0.45	< 0.20	< 0.20
MW26	MW26-050410	Farallon	05/04/10	13.00	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20140910	SoundEarth	09/10/14	15.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20181022	SoundEarth	10/22/18	13.00	0.24	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20200128	SoundEarth	01/28/20	14.00	0.28	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20200421	SoundEarth	04/21/20	15.50	0.24	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20200721	SoundEarth	07/21/20	15.50	1.4	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20201019	SoundEarth	10/19/20	15.50	1.1	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20210128	SoundEarth	01/28/21	15.50	0.41	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20210420	SoundEarth	04/20/21	15.00	0.34	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20210726	SoundEarth	07/26/21	15.00	0.49	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20211012	SoundEarth	10/12/21	15.00	0.52	< 0.20	< 0.20	< 0.20	< 0.10
	MW26-20220427	SoundEarth	04/27/22	15.00	0.28	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20221117	SoundEarth	11/17/22	15.00	0.54	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20230419	SoundEarth	04/19/23	14.00	0.45	< 0.20	< 0.20	< 0.20	< 0.20
	MW26-20231024	SoundEarth	10/24/23	16.00	0.57	< 0.20	< 0.20	< 0.20	< 0.20
MTCA Cleanup Levels for Groundwater					5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾
Commercial Remediation Levels for Groundwater					120 ⁽⁴⁾	12 ⁽⁴⁾	NE	650 ⁽⁴⁾	1.6 ⁽⁴⁾
Roadway Excavation Remediation Levels for Groundwater					760 ⁽⁴⁾	40 ⁽⁴⁾	NE	4,200 ⁽⁴⁾	9.9 ⁽⁴⁾



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sampled By	Sample Date	Sample Point Depth (feet bgs)	Analytical Results ⁽¹⁾ (micrograms per liter)				
					PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
MW27	MW27-070111	Farallon	07/01/11	11.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20141007	SoundEarth	10/07/14	12.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20190207	SoundEarth	02/07/19	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20200128	SoundEarth	01/28/20	12.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20200421	SoundEarth	04/21/20	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20200721	SoundEarth	07/21/20	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20201020	SoundEarth	10/20/20	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20210128	SoundEarth	01/28/21	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20210420	SoundEarth	04/20/21	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20210727	SoundEarth	07/27/21	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20211012	SoundEarth	10/12/21	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.10
	MW27-20220426	SoundEarth	04/26/22	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20221115	SoundEarth	11/15/22	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20230418	SoundEarth	04/18/23	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW28	MW27-20231025	SoundEarth	10/25/23	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20240415	SoundEarth	04/15/24	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW27-20241025	SoundEarth	10/25/24	12.75	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW28-20190604	SoundEarth	06/04/19	14.00	3.1	4.9	50	< 0.80	16
	MW28-20200128	SoundEarth	01/28/20	13.00	330	150	710	6.3	130
	MW28-20200422	SoundEarth	04/22/20	13.00	35	15	280	2.3	65
	MW28-20200721	SoundEarth	07/21/20	13.00	21	18	200	1.7	60
	MW28-20201020	SoundEarth	10/20/20	13.00	16	13	170	1.3	50
	MW28-20210128	SoundEarth	01/28/21	13.00	44	26	200	1.6	49
	MW28-20210421	SoundEarth	04/21/21	13.50	21	5.6	180	1.3	41
	MW28-20210727	SoundEarth	07/27/21	13.80	48	34	61	0.44	23
	MW28-20211013	SoundEarth	10/13/21	15.00	24	29	68	0.50	19
	MW28-20220427	SoundEarth	04/27/22	15.00	5.7	5.6	150	1.1	31
	MW28-20221117	SoundEarth	11/17/22	13.00	3.7	6.1	100	0.81	21
MW30	MW28-20230420	SoundEarth	04/20/23	13.00	23	18	79	0.46	9.7
	MW28-20231026	SoundEarth	10/26/23	13.00	35	28	53	< 0.40	2.3
	MW28-20240416	SoundEarth	04/16/24	10.50	2.0	1.7	75	0.52	29
	MW28-20241028	SoundEarth	10/28/24	13.80	7.7	< 0.40	48	0.47	28
	MW30-20210127	SoundEarth	01/27/21	16.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW30-20210419	SoundEarth	04/19/21	11.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW30-20210726	SoundEarth	07/26/21	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW30-20211011	SoundEarth	10/11/21	14.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.10
	MW30-20220426	SoundEarth	04/26/22	15.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW32	MW30-20221116	SoundEarth	11/16/22	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW30-20230418	SoundEarth	04/18/23	12.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW30-20231024	SoundEarth	10/24/23	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW30-20240415	SoundEarth	04/15/24	9.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW30-20241024	SoundEarth	10/24/24	15.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW34	MW32-20221116	SoundEarth	11/16/22	20.00	25	0.65	0.65	< 0.20	1.7
	MW32-20230418	SoundEarth	04/18/23	20.00	1.0	< 0.20	1.0	< 0.20	1.2
	MW32-20231025	SoundEarth	10/25/23	23.00	1.0	0.21	0.27	< 0.20	3.1
	MW32-20240416	SoundEarth	04/16/24	20.00	0.27	< 0.20	< 0.20	< 0.20	2.3
	MW32-20241025	SoundEarth	10/25/24	20.00	0.39	< 0.20	< 0.20	< 0.20	< 0.20
MW36	MW34-20221116	SoundEarth	11/16/22	20.00	13	4.6	39	< 0.20	9.2
	MW34-20230418	SoundEarth	04/18/23	20.00	2.0	0.30	2.9	< 0.20	7.3
	MW34-20231026	SoundEarth	10/26/23	21.00	1.2	0.23	1.2	< 0.20	1.9
	MW34-20240416	SoundEarth	04/16/24	20.00	0.23	< 0.20	0.91	< 0.20	1.0
	MW34-20241024	SoundEarth	10/24/24	20.00	0.33	0.21	0.96	< 0.20	1.1
TMW01	MW36-20221115	SoundEarth	11/15/22	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW36-20230418	SoundEarth	04/18/23	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW36-20231025	SoundEarth	10/25/23	21.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW36-20240415	SoundEarth	04/15/24	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW36-20241024	SoundEarth	10/24/24	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
TMW02	TMW-1-040510	Farallon	04/05/10	13.75	15	0.29	< 0.20	< 0.20	< 0.20
	TMW-1-20100405	SoundEarth	04/05/10	--	16	< 1.0	< 1.0	< 1.0	< 0.20
	Monitoring Well Decommissioned								
TMW03	TMW-2-040510	Farallon	04/05/10	13.79	110	1.5	< 1.0	< 1.0	< 1.0
	TMW-2-20100405	SoundEarth	04/05/10	--	150	1.5	< 1.0	< 1.0	< 0.20
	Monitoring Well Decommissioned								
MTCA Cleanup Levels for Groundwater	TMW-3-040510	Farallon	04/05/10	13.22	310	3.6	< 2.0	< 2.0	< 2.0
	TMW-3-20100405	SoundEarth	04/05/10	--	350	3.7	< 1.0	< 1.0	< 0.20
	Monitoring Well Decommissioned								
MTCA Cleanup Levels for Groundwater					5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾
Commercial Remediation Levels for Groundwater					120 ⁽⁴⁾	12 ⁽⁴⁾	NE	650 ⁽⁴⁾	1.6 ⁽⁴⁾
Roadway Excavation Remediation Levels for Groundwater					760 ⁽⁴⁾	40 ⁽⁴⁾	NE	4,200 ⁽⁴⁾	9.9 ⁽⁴⁾



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sampled By	Sample Date	Sample Point Depth (feet bgs)	Analytical Results ⁽¹⁾ (micrograms per liter)				
					PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
IW08	IW08-20200212*	SoundEarth	02/12/20	13.00	1.0	0.32	12	< 0.20	0.39
	IW08-20200526*	SoundEarth	05/26/20	9.00	1.2	0.32	12	< 0.20	1.2
	IW08-20200720*	SoundEarth	07/20/20	9.00	0.77	0.48	14	< 0.20	0.74
	IW08-20201019*	SoundEarth	10/19/20	9.00	1.2	0.44	17	< 0.20	1.2
	IW08-20210127*	SoundEarth	01/27/21	9.00	1.4	0.44	30	< 0.20	2.1
	IW08-20210419*	SoundEarth	04/19/21	10.00	2.1	0.48	35	< 0.40	2.5
	IW08-20210726*	SoundEarth	07/26/21	10.00	1.7	0.56	31	< 0.20	1.1
	IW08-20211011*	SoundEarth	10/11/21	11.00	1.4	0.43	32	< 0.20	2.0
	IW08-20220425*	SoundEarth	04/25/22	10.00	1.3	0.70	49	< 0.40	1.9
	IW08-20221115*	SoundEarth	11/15/22	11.00	1.6	0.63	39	< 0.20	1.8
	IW08-20230417*	SoundEarth	04/17/23	10.00	2.1	0.88	52	< 0.40	2.6
	IW08-20231023*	SoundEarth	10/23/23	10.00	1.6	0.84	51	< 0.40	1.9
IW16	IW16-20200212*	SoundEarth	02/12/20	12.50	< 1.0	1.2	37	< 1.0	180
	IW16-20200526*	SoundEarth	05/26/20	13.50	< 1.0	1.5	36	< 1.0	160
	IW16-20200720*	SoundEarth	07/20/20	13.50	0.71	1.4	33	< 0.50	120
	IW16-20201019*	SoundEarth	10/19/20	13.50	0.81	1.2	24	< 0.40	73
	IW16-20210127*	SoundEarth	01/27/21	13.50	1.2	1.6	17	< 0.40	56
	IW16-20210419*	SoundEarth	04/19/21	13.00	0.91	1.7	17	< 0.40	55
	IW16-20210726*	SoundEarth	07/26/21	13.00	0.87	1.2	12	< 0.40	42
	IW16-20211011*	SoundEarth	10/11/21	13.00	0.51	1.0	8.6	0.23	35
	IW16-20220425*	SoundEarth	04/25/22	12.00	0.92	1.7	7.7	< 0.40	29
	IW16-20221115*	SoundEarth	11/15/22	11.00	0.97	1.2	9.4	< 0.20	15
	IW16-20230417*	SoundEarth	04/17/23	10.00	1.1	1.5	5.7	< 0.20	14
	IW16-20231023*	SoundEarth	10/23/23	12.00	1.2	1.4	6.0	< 0.20	10
IW21	IW21-20200212*	SoundEarth	02/12/20	10.00	< 10	< 10	81	< 10	1,500
	IW21-20200526*	SoundEarth	05/26/20	10.00	< 2.0	< 2.0	< 2.0	< 2.0	330
	IW21-20200720*	SoundEarth	07/20/20	10.00	< 2.0	< 2.0	6.7	< 2.0	400
	IW21-20201019*	SoundEarth	10/19/20	10.00	< 4.0	< 4.0	< 4.0	< 4.0	740
	IW21-20210127*	SoundEarth	01/27/21	10.00	< 0.80	< 0.80	< 0.80	< 0.80	87
	IW21-20210419*	SoundEarth	04/19/21	12.00	< 4.0	< 4.0	11	< 4.0	380
	IW21-20210726*	SoundEarth	07/26/21	12.00	< 0.20	0.88	1.1	< 0.20	25
	IW21-20211011*	SoundEarth	10/11/21	12.00	< 0.40	0.88	4.2	< 0.40	50
	IW21-20220425*	SoundEarth	04/25/22	12.00	< 4.00	< 4.00	120	< 4.00	300
	IW21-20221115*	SoundEarth	11/15/22	10.00	< 0.20	0.53	1.5	0.28	4.5
	IW21-20230417*	SoundEarth	04/17/23	10.00	< 0.80	1.3	78	1.1	180
	IW21-20231023*	SoundEarth	10/23/23	9.50	< 0.20	0.47	7.1	0.86	32
IW30	IW30-20240412*	SoundEarth	04/12/24	8.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW30-20240618*	SoundEarth	06/18/24	8.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
IW31	IW31-20200212*	SoundEarth	02/12/20	13.00	0.36	< 0.20	< 0.20	< 0.20	< 0.20
	IW31-20200526*	SoundEarth	05/26/20	10.00	0.23	< 0.20	< 0.20	< 0.20	< 0.20
	IW31-20200720*	SoundEarth	07/20/20	10.00	0.28	< 0.20	< 0.20	< 0.20	< 0.20
	IW31-20201019*	SoundEarth	10/19/20	10.00	0.35	< 0.20	< 0.20	< 0.20	< 0.20
	IW31-20210127*	SoundEarth	01/27/21	10.00	0.34	< 0.20	< 0.20	< 0.20	< 0.20
	IW31-20210419*	SoundEarth	04/19/21	13.00	0.33	< 0.20	0.78	< 0.20	< 0.20
	IW31-20210726*	SoundEarth	07/26/21	13.00	0.28	< 0.20	0.21	< 0.20	< 0.20
	IW31-20211011*	SoundEarth	10/11/21	13.00	0.29	< 0.20	< 0.20	< 0.20	< 0.20
	IW31-20220425*	SoundEarth	04/25/22	10.00	0.32	< 0.20	< 0.20	< 0.20	< 0.20
	IW31-20221114*	SoundEarth	11/14/22	10.00	0.22	< 0.20	< 0.20	< 0.20	< 0.20
	IW31-20230417*	SoundEarth	04/17/23	13.00	0.38	< 0.20	< 0.20	< 0.20	< 0.20
	IW31-20231023*	SoundEarth	10/23/23	15.00	0.29	< 0.20	< 0.20	< 0.20	< 0.20
IW33	IW33-20200212*	SoundEarth	03/12/19	13.00	6.3	< 1.00	< 1.00	< 1.00	< 0.20
	IW33-20200212*	SoundEarth	02/12/20	12.50	1.1	< 0.20	< 0.20	< 0.20	< 0.20
	IW33-20200526*	SoundEarth	05/26/20	10.50	1.1	< 0.20	< 0.20	< 0.20	< 0.20
	IW33-20200720*	SoundEarth	07/20/20	10.50	1.2	< 0.20	< 0.20	< 0.20	< 0.20
	IW33-20201019*	SoundEarth	10/19/20	10.50	1.0	< 0.20	< 0.20	< 0.20	< 0.20
	IW33-20210127*	SoundEarth	01/27/21	10.50	1.1	< 0.20	< 0.20	< 0.20	< 0.20
	IW33-20210419*	SoundEarth	04/19/21	11.00	1.1	< 0.20	< 0.20	< 0.20	< 0.20
	IW33-20210726*	SoundEarth	07/26/21	11.00	0.98	< 0.20	< 0.20	< 0.20	< 0.20
	IW33-20211011*	SoundEarth	10/11/21	14.00	0.90	< 0.20	< 0.20	< 0.20	< 0.20
	IW33-20220425*	SoundEarth	04/25/22	13.00	1.1	< 0.20	< 0.20	< 0.20	< 0.20
	IW33-20221114*	SoundEarth	11/14/22	12.00	0.96	< 0.20	0.27	< 0.20	< 0.20
	IW33-20230417*	SoundEarth	04/17/23	12.00	1.1	< 0.20	< 0.20	< 0.20	< 0.20
IW33	IW33-20231023*	SoundEarth	10/23/23	14.50	0.90	0.21	< 0.20	< 0.20	< 0.20
	IW33-20240415*	SoundEarth	04/15/24	14.50	1.2	< 1.0	91	< 1.0	73
	IW33-20240618*	SoundEarth	06/18/24	14.50	< 0.80	< 0.80	78	0.99	43
	IW33-20241024*	SoundEarth	10/24/24	14.50	0.63	0.56	74	0.80	15
MTCA Cleanup Levels for Groundwater					5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾
Commercial Remediation Levels for Groundwater					120 ⁽⁴⁾	12 ⁽⁴⁾	NE	650 ⁽⁴⁾	1.6 ⁽⁴⁾
Roadway Excavation Remediation Levels for Groundwater					760 ⁽⁴⁾	40 ⁽⁴⁾	NE	4,200 ⁽⁴⁾	9.9 ⁽⁴⁾



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Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sampled By	Sample Date	Sample Point Depth (feet bgs)	Analytical Results ⁽¹⁾ (micrograms per liter)				
					PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
IW55	IW55-20230417*	SoundEarth	04/17/23	5.50	< 0.20	0.27	1.6	< 0.20	1.2
	IW55-20231023*	SoundEarth	10/23/23	5.50	< 0.20	0.22	1.9	< 0.20	1.3
	IW55-20240412*	SoundEarth	04/12/24	4.00	< 0.20	< 0.20	1.5	< 0.20	0.86
	IW55-20241023*	SoundEarth	10/23/24	4.00	< 0.20	< 0.20	0.92	< 0.20	0.89
IW57	IW57-20221115*	SoundEarth	11/15/22	6.00	< 0.20	0.40	0.95	< 0.20	0.43
	IW57-20230417*	SoundEarth	04/17/23	4.00	< 0.20	0.29	0.48	< 0.20	0.33
	IW57-20231023*	SoundEarth	10/23/23	4.00	< 0.20	0.23	0.25	< 0.20	0.27
	IW57-20240412*	SoundEarth	04/12/24	4.00	< 0.20	< 0.20	< 0.20	< 0.20	0.42
	IW57-20241023*	SoundEarth	10/23/24	4.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
IW59	IW59-20200212*	SoundEarth	02/12/20	4.00	< 0.20	0.55	1.0	< 0.20	0.24
	IW59-20200526*	SoundEarth	05/26/20	4.00	< 0.20	0.51	1.4	< 0.20	3.0
	IW59-20200720*	SoundEarth	07/20/20	4.00	< 0.20	0.69	2.3	< 0.20	6.9
	IW59-20201019*	SoundEarth	10/19/20	4.00	0.22	1.8	5.0	< 0.20	15
	IW59-20210127*	SoundEarth	01/27/21	4.00	0.51	2.3	11	< 0.20	41
	IW59-20210419*	SoundEarth	04/19/21	4.00	< 1.0	2.2	42	< 1.0	79
	IW59-20210726*	SoundEarth	07/26/21	4.00	0.48	2.0	61	< 0.40	87
	IW59-20211011*	SoundEarth	10/11/21	4.00	< 0.80	1.7	94	< 0.80	130
	IW59-20220425*	SoundEarth	04/25/22	3.00	< 2.0	< 2.0	140	< 2.0	160
	IW59-20221115*	SoundEarth	11/15/22	3.00	< 0.80	1.1	140	< 0.80	100
	IW59-20230417*	SoundEarth	04/17/23	--	< 1.0	< 1.0	43	< 1.0	130
	IW59-20231023*	SoundEarth	10/23/23	4.00	< 1.0	< 1.0	12	< 1.0	69
	IW59-20240412*	SoundEarth	04/12/24	4.00	< 0.20	< 0.20	0.40	< 0.20	14
	IW59-20240618*	SoundEarth	06/18/24	4.00	< 0.40	< 0.40	2.9	< 0.40	28
	IW59-20241023*	SoundEarth	10/23/24	4.00	< 0.20	< 0.20	7.7	< 0.20	18
IW61	IW61-20221115*	SoundEarth	11/15/22	6.00	< 0.20	< 0.20	0.42	< 0.20	10
	IW61-20230417*	SoundEarth	04/17/23	5.00	< 0.20	< 0.20	0.33	< 0.20	20
	IW61-20231023*	SoundEarth	10/23/23	4.50	< 0.20	< 0.20	0.49	< 0.20	22
	IW61-20240412*	SoundEarth	04/12/24	4.00	< 0.40	< 0.40	2.9	< 0.40	36
	IW61-20240618*	SoundEarth	06/18/24	4.00	< 1.0	< 1.0	26	< 1.0	100
	IW61-20241023*	SoundEarth	10/23/24	4.00	< 0.20	< 0.20	33	< 0.20	67
MTCA Cleanup Levels for Groundwater					5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾
Commercial Remediation Levels for Groundwater					120 ⁽⁴⁾	12 ⁽⁴⁾	NE	650 ⁽⁴⁾	1.6 ⁽⁴⁾
Roadway Excavation Remediation Levels for Groundwater					760 ⁽⁴⁾	40 ⁽⁴⁾	NE	4,200 ⁽⁴⁾	9.9 ⁽⁴⁾



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sampled By	Sample Date	Sample Point Depth (feet bgs)	Analytical Results ⁽¹⁾ (micrograms per liter)				
					PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
Deep Water-Bearing Zone Wells									
MW07	MW7-111904-01	Farallon	11/19/04	26.00	7,000	47	< 20	< 20	< 20
	MW7-060206	Farallon	06/02/06	29.00	530	16	< 4.0	< 4.0	< 4.0
	MW7-042007	Farallon	04/20/07	28.00	2.5	< 2.0	< 2.0	< 2.0	< 2.0
	MW7-112008	Farallon	11/20/08	28.67	18.0	0.69	< 2.0	< 2.0	< 2.0
	MW7-050410	Farallon	05/04/10	26.00	12.0	0.49	< 0.20	< 0.20	< 0.20
	MW07-20140910	SoundEarth	09/10/14	26.00	4.5	0.26	< 0.20	< 0.20	< 0.20
Monitoring Well Decommissioned									
MW08	MW8-111904-01	Farallon	11/19/04	35.00	0.36	< 0.20	< 0.20	< 0.20	< 0.20
	MW8-060106	Farallon	06/01/06	38.09	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW8-111908	Farallon	11/19/08	38.15	0.70	< 0.20	< 0.20	< 0.20	< 0.20
	MW8-050510	Farallon	05/04/10	35.00	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW08-20140909	SoundEarth	09/09/14	30.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW08-20181025	SoundEarth	10/25/18	37.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW08-20200128	SoundEarth	01/28/20	35.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW08-20200421	SoundEarth	04/21/20	35.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW08-20200720	SoundEarth	07/20/20	35.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW08-20201019	SoundEarth	10/19/20	35.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW08-20210127	SoundEarth	01/27/21	35.00	4.4	0.23	< 0.20	< 0.20	< 0.20
	MW08-20210420	SoundEarth	04/20/21	35.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW08-20210726	SoundEarth	07/26/21	35.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW08-20211012	SoundEarth	10/12/21	15.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.10
	MW08-20220426	SoundEarth	04/26/22	35.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW08-20221116	SoundEarth	11/16/22	35.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
MW08-20230419	SoundEarth	04/19/23	35.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
MW08-20231023	SoundEarth	10/23/23	36.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
MW09	MW9-111904-01	Farallon	11/19/04	35.00	210	< 1.0	< 1.0	< 1.0	< 1.0
	MW9-060106	Farallon	06/01/06	37.81	390	< 2.0	< 2.0	< 2.0	< 2.0
	MW9-042007	Farallon	04/20/07	36.75	410	< 2.0	< 2.0	< 2.0	< 2.0
	MW9-112008	Farallon	11/20/08	37.81	220	< 2.0	< 2.0	< 2.0	< 2.0
	MW9-050410	Farallon	05/04/10	35.00	190	< 0.20	< 0.20	< 0.20	< 0.20
	MW09-20140910	SoundEarth	09/10/14	35.00	89	< 0.20	< 0.20	< 0.20	< 0.20
	MW09-20181024	SoundEarth	10/24/18	35.00	160	< 1.0	< 1.0	< 1.0	< 1.0
	MW09-20200129	SoundEarth	01/29/20	35.00	97	3.4	160	< 1.0	< 1.0
	MW09-20200421	SoundEarth	04/21/20	35.00	72	4.6	120	< 1.0	< 0.20
	MW09-20200721	SoundEarth	07/21/20	35.00	130	11	170	1.4	< 0.20
	MW09-20201020	SoundEarth	10/20/20	35.00	250	13	110	< 1.0	< 0.20
	MW09-20210128	SoundEarth	01/28/21	35.00	350	8.0	43	< 2.0	< 0.20
	MW09-20210420	SoundEarth	04/20/21	35.00	310	6.9	30	< 2.0	< 0.20
	MW09-20210727	SoundEarth	07/27/21	35.00	410	4.3	23	< 2.0	< 0.20
	MW09-20211013	SoundEarth	10/13/21	35.00	380	3.9	20	< 0.40	< 0.20
	MW09-20220427	SoundEarth	04/27/22	35.00	420	4.4	15	< 0.20	< 0.20
	MW09-20221117	SoundEarth	11/17/22	35.00	670	< 4.0	10	< 4.0	< 0.20
MW09-20230420	SoundEarth	04/20/23	35.00	590	2.9	6.6	< 2.0	< 0.20	
MW09-20231025	SoundEarth	10/25/23	35.00	760	5.3	15	< 2.0	0.37	
MW09-20240416	SoundEarth	04/16/24	35.00	450	2.1	10	< 2.0	0.22	
MW09-20241028	SoundEarth	10/28/24	35.00	380	3.7	16	< 2.0	< 0.20	
MW10	MW10-111904-01	Farallon	11/19/04	34.98	2.5	< 0.20	< 0.20	< 0.20	< 0.20
	MW10-060106	Farallon	06/01/06	37.98	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW10-042007	Farallon	04/20/07	37.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW10-112008	Farallon	11/20/08	38.01	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW10-050410	Farallon	05/04/10	35.00	3.30	< 0.20	< 0.20	< 0.20	< 0.20
	MW10-20140910	SoundEarth	09/10/14	35.00	600	< 0.20	< 0.20	< 0.20	< 0.20
	MW10-20181024	SoundEarth	10/24/18	35.00	210	< 2.0	< 2.0	< 2.0	< 2.0
	MW10-20190409	SoundEarth	04/09/19*	35.00	21	1.1	1.8	< 0.20	< 0.20
	MW10-20200129	SoundEarth	01/29/20	35.00	6.5	3.3	250	< 1.0	1.6
	MW10-20200422	SoundEarth	04/22/20	35.00	< 2.0	< 2.0	270	< 2.0	1.5
	MW10-20200722	SoundEarth	07/22/20	35.00	< 2.0	< 2.0	270	< 2.0	1.3
	MW10-20201020	SoundEarth	10/20/20	35.00	6.5	3.6	480	< 2.0	1.2
	MW10-20210128	SoundEarth	01/28/21	35.00	11	6.5	420	< 2.0	0.91
	MW10-20210420	SoundEarth	04/20/21	35.00	47	15	650	< 4.0	1.3
	MW10-20210726	SoundEarth	07/26/21	35.00	19	8.9	400	< 2.0	0.78
	MW10-20211012	SoundEarth	10/12/21	35.00	9.3	5.3	150	0.48	0.56
	MW10-20220426	SoundEarth	04/26/22	35.00	1.7	1.5	120	< 0.80	0.50
	MW10-20221117	SoundEarth	11/17/22	35.00	4.5	3.3	80	< 0.40	0.45
	MW10-20230420	SoundEarth	04/20/23	35.00	7.3	7.8	59	< 0.40	0.42
	MW10-20231025	SoundEarth	10/25/23	35.00	5.0	17	140	< 0.80	0.53
MW10-20240417	SoundEarth	04/17/24	35.00	0.98	< 0.80	130	< 0.80	0.75	
MW10-20241028	SoundEarth	10/28/24	35.00	110	76	190	< 0.80	0.86	
MW11	MW11-060206	Farallon	06/02/06	62.30	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW11-112008	Farallon	11/20/08	63.30	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW11-050310	Farallon	05/03/10	62.50	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW11-20141007	SoundEarth	10/07/14	62.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW12	MW12-060206	Farallon	06/02/06	60.51	0.76	< 0.20	< 0.20	< 0.20	< 0.20
	MW12-111908	Farallon	11/19/08	64.10	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW12-050310	Farallon	05/03/10	62.00	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW12-20140909	SoundEarth	09/09/14	62.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW12-20181024	SoundEarth	10/24/18	62.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MTCA Cleanup Levels for Groundwater					5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾
Commercial Remediation Levels for Groundwater					120 ⁽⁴⁾	12 ⁽⁴⁾	NE	650 ⁽⁴⁾	1.6 ⁽⁴⁾
Roadway Excavation Remediation Levels for Groundwater					760 ⁽⁴⁾	40 ⁽⁴⁾	NE	4,200 ⁽⁴⁾	9.9 ⁽⁴⁾



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sampled By	Sample Date	Sample Point Depth (feet bgs)	Analytical Results ⁽¹⁾ (micrograms per liter)				
					PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
MW13	MW13-060206	Farallon	06/02/06	60.90	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW13-042007	Farallon	04/20/07	63.18	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW13-111908	Farallon	11/19/08	64.22	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW13-050310	Farallon	05/03/10	60.00	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW13-20140909	SoundEarth	09/09/14	60.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW14	MW13-20181024	SoundEarth	10/24/18	58.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW14-060206	Farallon	06/02/06	71.31	0.99	< 0.20	< 0.20	< 0.20	< 0.20
	MW14-032507	Farallon	03/25/07	70.08	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW14-042007	Farallon	04/20/07	68.80	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW14-112008	Farallon	11/20/08	70.16	1.1	< 0.20	< 0.20	< 0.20	< 0.20
	MW14-050410	Farallon	05/04/10	68.00	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW14-20140910	SoundEarth	09/10/14	68.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW18	Monitoring Well Decommissioned								
	MW18-060106	Farallon	06/01/06	75.92	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW20	Monitoring Well Decommissioned								
	MW20-112008	Farallon	11/20/08	47.19	0.28	< 0.20	< 0.20	< 0.20	< 0.20
	MW20-050410	Farallon	05/04/10	45.00	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
MW22	Monitoring Well Decommissioned								
	MW22-112008	Farallon	11/20/08	47.19	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-050410	Farallon	05/04/10	44.00	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20140910	SoundEarth	09/10/14	44.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20181024	SoundEarth	10/24/18	44.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20200128	SoundEarth	01/28/20	45.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20200421	SoundEarth	04/21/20	44.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20200721	SoundEarth	07/21/20	44.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20201019	SoundEarth	10/19/20	44.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20210127	SoundEarth	01/27/21	44.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20210420	SoundEarth	04/20/21	44.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20210726	SoundEarth	07/26/21	45.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20211012	SoundEarth	10/12/21	45.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.10
	MW22-20220426	SoundEarth	04/26/22	45.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW29	MW22-20221116	SoundEarth	11/16/22	45.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20230419	SoundEarth	04/19/23	44.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW22-20231024	SoundEarth	10/24/23	42.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW29-20190521	SoundEarth	05/21/19	45.00	11	0.62	< 0.20	< 0.20	< 0.20
	MW29-20200128	SoundEarth	01/28/20	45.00	4.5	1.1	2.8	< 0.20	< 0.20
	MW29-20200422	SoundEarth	04/22/20	40.00	0.79	< 0.20	< 0.20	< 0.20	< 0.20
	MW29-20200721	SoundEarth	07/21/20	40.00	4.6	1.5	0.86	< 0.20	< 0.20
	MW29-20201019	SoundEarth	10/19/20	40.00	4.5	1.2	0.55	< 0.20	< 0.20
	MW29-20210128	SoundEarth	01/28/21	40.00	7.1	1.5	0.30	< 0.20	< 0.20
	MW29-20210420	SoundEarth	04/20/21	45.00	7.2	1.3	0.21	< 0.20	< 0.20
	MW29-20210726	SoundEarth	07/26/21	45.00	4.8	0.53	< 0.20	< 0.20	< 0.20
	MW29-20211012	SoundEarth	10/12/21	--	5.3	0.87	< 0.20	< 0.20	< 0.10
MW31	MW29-20220427	SoundEarth	04/27/22	45.00	1.4	0.78	2.7	< 0.20	< 0.20
	MW29-20221116	SoundEarth	11/16/22	45.00	2.4	0.82	< 0.20	< 0.20	< 0.20
	MW29-20230419	SoundEarth	04/19/23	45.00	3.6	1.0	< 0.20	< 0.20	< 0.20
	MW29-20231025	SoundEarth	10/25/23	36.00	6.8	2.6	0.73	< 0.20	< 0.20
	MW29-20240416	SoundEarth	04/16/24	45.00	1.2	0.38	2.5	< 0.20	< 0.20
	MW29-20241024	SoundEarth	10/24/24	45.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW31-20210127	SoundEarth	01/27/21	37.00	16,000	780	940	< 200	< 200
	MW31-20210419	SoundEarth	04/19/21	37.50	19,000	2,600	3,400	< 100	< 10
	MW31-20210726	SoundEarth	07/26/21	37.50	480	790	15,000	110	12
MW33	MW31-20210819	SoundEarth	08/19/21	38.00	350	360	16,000	140	20
	MW31-20211011	SoundEarth	10/11/21	37.50	370	410	11,000	150	65
	MW31-20220426	SoundEarth	04/26/22	--	110	12	13,000	120	570
	MW31-20221116	SoundEarth	11/16/22	38.00	55	< 25	10,000	85	1,100
	MW31-20230418	SoundEarth	04/18/23	38.00	< 50	< 50	7,800	54	1,500
	MW31-20231026	SoundEarth	10/26/23	38.00	67	< 50	6,400	< 50	2,000
	MW31-20240417	SoundEarth	04/17/24	37.00	< 40	< 40	7,900	60	2,700
	MW31-20241028	SoundEarth	10/28/24	37.50	< 50	< 50	8,700	60	2,100
MW35	MW33-20221116	SoundEarth	11/16/22	40.00	4.5	< 0.20	< 0.20	< 0.20	< 0.20
	MW33-20230418	SoundEarth	04/18/23	40.00	1.5	< 0.20	< 0.20	< 0.20	< 0.20
	MW33-20231024	SoundEarth	10/24/23	40.00	0.57	< 0.20	< 0.20	< 0.20	< 0.20
	MW33-20240416	SoundEarth	04/16/24	40.00	0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW33-20241024	SoundEarth	10/24/24	40.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW37	MW35-20221115	SoundEarth	11/15/22	40.00	3,300	110	310	< 0.20	2.8
	MW35-20230418	SoundEarth	04/18/23	40.00	240	25	340	< 2.0	1.2
	MW35-20231026	SoundEarth	10/26/23	42.00	3,600	220	1,300	3.1	30
	MW35-20240416	SoundEarth	04/16/24	40.00	4.7	1.9	26	< 0.20	0.32
	MW35-20241028	SoundEarth	10/28/24	40.00	17	5.8	39	< 0.20	2.6
MW37	MW37-20221115	SoundEarth	11/15/22	40.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW37-20230418	SoundEarth	04/18/23	40.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW37-20231024	SoundEarth	10/24/23	40.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW37-20240415	SoundEarth	04/15/24	40.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MW37-20241025	SoundEarth	10/25/24	40.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MTCA Cleanup Levels for Groundwater					5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾
Commercial Remediation Levels for Groundwater					120 ⁽⁴⁾	12 ⁽⁴⁾	NE	650 ⁽⁴⁾	1.6 ⁽⁴⁾
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					PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
IW07	IW07-20200212*	SoundEarth	02/12/20	32.00	< 0.20	< 0.20	1.5	< 0.20	< 0.20
	IW07-20200526*	SoundEarth	05/26/20	32.00	< 0.20	< 0.20	1.8	< 0.20	< 0.20
	IW07-20200720*	SoundEarth	07/20/20	32.00	< 0.20	< 0.20	1.9	< 0.20	< 0.20
	IW07-20201019*	SoundEarth	10/19/20	32.00	< 0.20	< 0.20	1.5	< 0.20	< 0.20
	IW07-20210127*	SoundEarth	01/27/21	32.00	< 0.20	< 0.20	1.8	< 0.20	0.23
	IW07-20210419*	SoundEarth	04/19/21	32.00	< 0.20	< 0.20	1.5	< 0.20	0.32
	IW07-20210726*	SoundEarth	07/26/21	32.00	< 0.20	< 0.20	1.5	< 0.20	0.32
	IW07-20211011*	SoundEarth	10/11/21	32.00	< 0.20	< 0.20	1.4	< 0.20	0.32
	IW07-20220425*	SoundEarth	04/25/22	32.00	< 0.20	< 0.20	1.4	< 0.20	0.44
	IW07-20221115*	SoundEarth	11/15/22	32.00	< 0.20	< 0.20	1.4	< 0.20	0.24
	IW07-20230417*	SoundEarth	04/17/23	32.00	< 0.20	< 0.20	1.4	< 0.20	0.31
	IW07-20231023*	SoundEarth	10/23/23	32.00	< 0.20	< 0.20	1.2	< 0.20	< 0.20
IW15	IW15-20200212*	SoundEarth	02/12/20	29.00	0.21	< 0.20	3.3	< 0.20	0.58
	IW15-20200526*	SoundEarth	05/26/20	32.00	0.34	0.44	18	< 0.20	11
	IW15-20200720*	SoundEarth	07/20/20	32.00	0.36	0.58	28	< 0.20	19
	IW15-20201019*	SoundEarth	10/19/20	32.00	0.33	0.45	27	< 0.20	20
	IW15-20210127*	SoundEarth	01/27/21	32.00	0.65	< 0.40	40	< 0.40	28
	IW15-20210419*	SoundEarth	04/19/21	32.00	0.57	1.5	69	< 0.40	37
	IW15-20210726*	SoundEarth	07/26/21	32.00	0.51	1.0	49	< 0.40	24
	IW15-20211011*	SoundEarth	10/11/21	32.00	0.37	0.64	35	< 0.20	14
	IW15-20220425*	SoundEarth	04/25/22	32.00	< 0.80	1.6	57	< 0.80	19
	IW15-20221115*	SoundEarth	11/15/22	32.00	0.55	1.3	46	0.21	8.6
	IW15-20230417*	SoundEarth	04/17/23	32.00	0.72	1.6	53	< 0.40	9.0
	IW15-20231023*	SoundEarth	10/23/23	32.00	0.62	1.6	51	< 0.40	5.8
IW22	IW22-20200212*	SoundEarth	02/12/20	32.00	< 0.20	< 0.20	1.5	< 0.20	30
	IW22-20200526*	SoundEarth	05/26/20	32.00	< 0.50	< 0.50	4.8	< 0.50	91
	IW22-20200720*	SoundEarth	07/20/20	32.00	< 1.0	< 1.0	8.5	< 1.0	160
	IW22-20201019*	SoundEarth	10/19/20	32.00	< 1.0	< 1.0	8.2	< 1.0	150
	IW22-20210127*	SoundEarth	01/27/21	32.00	< 1.0	< 1.0	12	< 1.0	180
	IW22-20210419*	SoundEarth	04/19/21	32.00	< 2.0	< 2.0	17	< 2.0	210
	IW22-20210726*	SoundEarth	07/26/21	32.00	< 2.0	< 2.0	16	< 2.0	250
	IW22-20211011*	SoundEarth	10/11/21	32.00	< 2.0	< 2.0	20	< 2.0	240
	IW22-20220425*	SoundEarth	04/25/22	32.00	< 4.0	< 4.0	30	< 4.0	280
	IW22-20221115*	SoundEarth	11/15/22	32.00	< 1.0	< 1.0	33	< 1.0	190
	IW22-20230417*	SoundEarth	04/17/23	32.00	< 1.0	< 1.0	37	< 1.0	170
	IW22-20231023*	SoundEarth	10/23/23	32.00	< 1.0	< 1.0	36	< 1.0	72
IW29	IW22-20240412*	SoundEarth	04/12/24	32.00	< 0.20	< 0.20	4.0	< 0.20	12
	IW22-20240618*	SoundEarth	06/18/24	32.00	< 0.20	< 0.20	5.3	< 0.20	12
	IW22-20241023*	SoundEarth	10/23/24	32.00	< 0.20	< 0.20	6.2	< 0.20	4.9
IW29	IW29-20240412*	SoundEarth	04/12/24	32.00	0.21	< 0.20	15	< 0.20	0.71
	IW29-20240618*	SoundEarth	06/18/24	20.00	< 0.80	< 0.80	64	< 0.80	5.6
IW32	IW32-20200212*	SoundEarth	02/12/20	33.00	< 40	950	7,100	73	250
	IW32-20200526*	SoundEarth	05/26/20	32.00	< 50	370	5,700	< 50	250
	IW32-20200720*	SoundEarth	07/20/20	32.00	< 50	260	5,400	< 50	250
	IW32-20201019*	SoundEarth	10/19/20	32.00	23	200	4,600	35	240
	IW32-20210127*	SoundEarth	01/27/21	32.00	45	320	5,800	45	320
	IW32-20210419*	SoundEarth	04/19/21	32.00	< 40	170	6,100	53	430
	IW32-20210726*	SoundEarth	07/26/21	32.00	< 50	160	10,000	89	1,300
	IW32-20211011*	SoundEarth	10/11/21	32.00	< 40	130	7,000	55	1,200
	IW32-20220425*	SoundEarth	04/25/22	32.00	< 50	120	5,400	< 50	960
	IW32-20221114*	SoundEarth	11/14/22	32.00	< 30	130	6,100	32	1,000
	IW32-20230417*	SoundEarth	04/17/23	32.00	< 40	130	7,100	< 40	1,400
	IW32-20231023*	SoundEarth	10/23/23	32.00	46	150	9,600	< 40	2,000
IW34	IW32-20240415*	SoundEarth	04/15/24	32.00	< 2.0	< 2.0	110	< 2.0	73
	IW32-20240618*	SoundEarth	06/18/24	32.00	12	< 10	2,100	< 10	2,100
	IW32-20241024*	SoundEarth	10/24/24	32.00	< 20	< 20	2,900	< 20	1,300
	IW34-20190312	SoundEarth	03/12/19	32.00	10,000 ^{ve}	150	23	< 1	4.9
	IW34-20190409*	SoundEarth	04/09/19	33.00	230	21	11	< 1.0	1.0
	IW34-20200212*	SoundEarth	02/12/20	33.00	360	3,100	4,100	50	100
	IW34-20200526*	SoundEarth	05/26/20	32.00	310	2,400	7,700	83	160
	IW34-20200720*	SoundEarth	07/20/20	32.00	290	2,300	11,000	110	220
	IW34-20201019*	SoundEarth	10/19/20	32.00	230	1,400	13,000	140	280
	IW34-20210127*	SoundEarth	01/27/21	32.00	< 200	990	17,000	< 200	360
	IW34-20210419*	SoundEarth	04/19/21	32.00	170	650	20,000	240	480
	IW34-20210726*	SoundEarth	07/26/21	32.00	< 200	230	24,000	320	460
IW34	IW34-20211011*	SoundEarth	10/11/21	32.00	< 200	< 200	26,000	330	560
	IW34-20220425*	SoundEarth	04/25/22	32.00	< 10	< 10	34,000	500	810
	IW34-20221114*	SoundEarth	11/14/22	32.00	< 300	< 300	36,000	600	860
	IW34-20230417*	SoundEarth	04/17/23	32.00	< 200	< 200	37,000	620	860
	IW34-20231023*	SoundEarth	10/23/23	32.00	< 200	< 200	5,600	510	16,000
	IW34-20231117	SoundEarth	11/17/23	32.00	< 200	< 200	4,400	450	15,000
	IW34-20240415*	SoundEarth	04/15/24	32.00	< 30	< 30	2,600	84	3,800
	IW34-20240618*	SoundEarth	06/18/24	32.00	< 100	< 100	9,300	190	4,700
	IW34-20241024L	SoundEarth	10/24/24	32.00	< 100	< 100	16,000	340	4,400
MTCA Cleanup Levels for Groundwater					5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾
Commercial Remediation Levels for Groundwater					120 ⁽⁴⁾	12 ⁽⁴⁾	NE	650 ⁽⁴⁾	1.6 ⁽⁴⁾
Roadway Excavation Remediation Levels for Groundwater					760 ⁽⁴⁾	40 ⁽⁴⁾	NE	4,200 ⁽⁴⁾	9.9 ⁽⁴⁾



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sampled By	Sample Date	Sample Point Depth (feet bgs)	Analytical Results ⁽¹⁾ (micrograms per liter)				
					PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
IW36	IW36-20190409*	SoundEarth	04/09/19	33.00	0.37	< 0.20	< 0.20	< 0.20	< 0.20
	IW36-20240415*	SoundEarth	04/15/24	32.00	< 2.0	< 2.0	73	< 2.0	130
	IW36-20240618*	SoundEarth	06/18/24	32.00	< 10	< 10	1,300	< 10	1,100
IW38	IW38-20240415*	SoundEarth	04/15/24	32.00	< 0.40	< 0.40	57	< 0.40	2.4
	IW38-20240618*	SoundEarth	06/18/24	32.00	< 1.0	< 1.0	94	< 1.0	6.3
IW60	--	--	02/12/20	--	--	--	--	--	--
	IW60-20200526*	SoundEarth	05/26/20	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20200720*	SoundEarth	07/20/20	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20201019*	SoundEarth	10/19/20	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20210127*	SoundEarth	01/27/21	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20210419*	SoundEarth	04/19/21	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20210726*	SoundEarth	07/26/21	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20211011*	SoundEarth	10/11/21	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20220425*	SoundEarth	04/25/22	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20221115*	SoundEarth	11/15/22	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20230417*	SoundEarth	04/17/23	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20231023*	SoundEarth	10/23/23	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20240412*	SoundEarth	04/12/24	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	IW60-20241023*	SoundEarth	10/23/24	20.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
DZ-B01	DZ-B01-20-30	SoundEarth	07/20/21	25.00	3,600	520	5,900	< 30	1,800
	DZ-B01-40-50	SoundEarth	07/20/21	45.00	10,000	160	310	< 50	67
DZ-B02	DZ-B02-20-30	SoundEarth	07/22/21	25.00	10,000	980	1,900	< 100	180
	DZ-B02-40-50	SoundEarth	07/22/21	45.00	1,300	180	420	< 10	32
DZ-B03	DZ-B03-20-30	SoundEarth	07/22/21	25.00	22,000	1,500	6,600	< 200	590
	DZ-B03-35-45	SoundEarth	07/22/21	40.00	12,000	420	920	< 100	62
DZ-B04	DZ-B04-20-30	SoundEarth	07/23/21	25.00	130	3.9	270	< 2.0	280
	DZ-B04-40-50	SoundEarth	07/23/21	45.00	80	0.75	1.0	< 0.40	0.50
DZ-B05	DZ-B05-20-30	SoundEarth	02/24/22	25.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	DZ-B05-40-50	SoundEarth	02/25/22	45.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	DZ-B05-60-70	SoundEarth	02/25/22	65.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
DZ-B06	DZ-B06-20-30	SoundEarth	02/28/22	25.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	DZ-B06-40-50	SoundEarth	02/28/22	45.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	DZ-B06-60-70	SoundEarth	03/01/22	65.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
DZ-B07	DZ-B07-20-30	SoundEarth	03/03/22	25.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	DZ-B07-40-50	SoundEarth	03/03/22	45.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	DZ-B07-60-70	SoundEarth	03/03/22	65.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
DZ-B08	DZ-B08-20-30	SoundEarth	03/01/22	25.00	33	0.51	< 0.20	< 0.20	< 0.20
	DZ-B08-40-50	SoundEarth	03/02/22	45.00	2.6	< 0.20	< 0.20	< 0.20	< 0.20
	DZ-B08-60-70	SoundEarth	03/02/22	65.00	0.40	< 0.20	< 0.20	< 0.20	< 0.20
DZ-B09	DZ-B09-20-30	SoundEarth	02/22/22	25.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	DZ-B09-40-50	SoundEarth	02/22/22	45.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	DZ-B09-60-70	SoundEarth	02/23/22	65.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MTCA Cleanup Levels for Groundwater					5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾
Commercial Remediation Levels for Groundwater					120 ⁽⁴⁾	12 ⁽⁴⁾	NE	650 ⁽⁴⁾	1.6 ⁽⁴⁾
Roadway Excavation Remediation Levels for Groundwater					760 ⁽⁴⁾	40 ⁽⁴⁾	NE	4,200 ⁽⁴⁾	9.9 ⁽⁴⁾

NOTES:

Red denotes concentration exceeds MTCA cleanup level for groundwater.

* denotes sample was collected using a passive diffusion bag sampler.

Samples analyzed by OnSite Environmental, Inc. of Redmond, Washington.

Green highlighting denotes samples collected as part of the 30 and 90 day post-pilot test groundwater monitoring.

⁽¹⁾ Analyzed by EPA Method 8260B, 8260C, or 8260D.

⁽²⁾ MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007, updated January 2023.

⁽³⁾ MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽⁴⁾ Washington State Department of Ecology Toxics Cleanup Program Memorandum, Air, Soil Gas, and Groundwater Remediation Levels for Vapor Intrusion in Commercial and Excavation Scenarios, Table 1 Commercial Remediation Levels for Groundwater and Table 3 Roadway Excavation Remediation Levels for Groundwater, July, 18 2022.

-- = not analyzed

< = not detected at a concentration above the laboratory reporting limit

bgs = below ground surface

CLARC = cleanup levels and risk calculations

CVOC = chlorinated volatile organic compound

DCE = dichloroethene

DZ = deep zone temporary monitoring well

EPA = US Environmental Protection Agency

Farallon = Farallon Consulting, L.L.C.

GeoEngineers = GeoEngineers, Inc.

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethene

SoundEarth = SoundEarth Strategies, Inc.

TCE = trichloroethene

WAC = Washington Administrative Code



Table 3
Natural Attenuation Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sample Date	Analytical Results (milligrams per liter)									
			Nitrate ⁽¹⁾	Total Manganese ⁽²⁾	Total Iron ⁽²⁾	Ferrous Iron ⁽³⁾	Ferric Iron ⁽⁴⁾	Sulfate ⁽⁵⁾	Methane ⁽⁶⁾	Ethane ⁽⁶⁾	Ethene ⁽⁶⁾	Chloride ⁽⁷⁾
Shallow Water-Bearing Zone Wells												
MW01	MW1-060206	06/02/06	16	--	1.3	0.00	1.30	16	<0.01	<0.01	<0.01	--
	MW1-20140910	09/10/14	4.1	--	<0.06	0.041	0.00	26	<0.0005	<0.0005	<0.0005	--
	MW01-20181024	10/24/18	--	--	--	--	--	--	--	--	--	--
	MW01-20200129	01/29/20	1.6	0.85	27	0.506	26	25	0.003	<0.00022	<0.00029	11
	MW01-20200421	04/21/20	--	--	--	--	--	--	--	--	--	--
	MW01-20200721	07/21/20	--	--	--	--	--	--	--	--	--	--
	MW01-20201020	10/20/20	--	--	--	--	--	--	--	--	--	--
	MW01-20210128	01/28/21	--	--	--	--	--	--	--	--	--	--
	MW01-20210420	04/20/21	2.1	<0.010	0.18	0.142	0.04	21	<0.00055	<0.00022	0.00029	7.9
	MW01-20210727	07/27/21	--	--	--	--	--	--	--	--	--	--
MW02	MW01-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW01-20220427	04/27/22	--	--	--	--	--	--	--	--	--	--
	MW02-20210420	04/20/21	--	--	--	--	--	--	--	--	--	--
	MW02-20210727	07/27/21	--	--	--	--	--	--	--	--	--	--
MW03	MW02-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW02-20220427	04/27/22	--	--	--	--	--	--	--	--	--	--
	MW03-20210420	04/20/21	--	--	--	--	--	--	--	--	--	--
	MW03-20210727	07/27/21	--	--	--	--	--	--	--	--	--	--
MW05	MW03-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW03-20220427	04/27/22	--	--	--	--	--	--	--	--	--	--
	MW05-20200128	01/28/20	<0.05	5.0	54	69.9	-16	<5.0	6.6	<0.022	<0.029	8.5
	MW05-20200421	04/21/20	--	--	--	--	--	--	--	--	--	--
	MW05-20200721	07/21/20	--	--	--	--	--	--	--	--	--	--
	MW05-20201020	10/20/20	--	--	--	--	--	--	--	--	--	--
	MW05-20210128	01/28/21	--	--	--	--	--	--	--	--	--	--
	MW05-20210421	04/21/21	<0.05	3.4	68	57.9	10.1	<5.0	3.4	<0.00022	<0.00029	19
	MW05-20210727	07/27/21	--	--	--	--	--	--	--	--	--	--
	MW05-20211013	10/13/21	--	--	--	--	--	--	--	--	--	--
	MW05-20220427	04/27/22	<0.05	2.8	41	42.8	-1.8	<5.0	9.0	<0.00022	<0.00029	15
	MW05-20230420	04/20/23	<0.05	2.8	32	42.5	-10.5	<5.0	9.6	<0.00022	<0.00029	22
	MW05-20231026	10/26/23	<0.025	2.8	36	44.7	-8.7	0.93	5.6	<0.00056	<0.00058	23.6
MW05-20240416	04/16/24	0.11	2.7	30	33.5	-3.5	<5.0	4.5	<0.00056	<0.00058	26	
MW06	MW05-20241028	10/28/24	0.21	2.9	34	37.4	-3.4	<5.0	6.6	<0.00056	<0.00058	32
	MW06-20210420	04/20/21	--	--	--	--	--	--	--	--	--	--
	MW06-20210727	07/27/21	--	--	--	--	--	--	--	--	--	--
	MW06-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW06-20220426	04/26/22	<0.05	1.1	1.6	0.401	1.199	17	0.99	<0.00022	0.024	68
	MW06-20230418	04/18/23	<0.05	1.0	2.20	1.48	0.720	19	4.8	0.00068	0.065	76
	MW06-20231024	10/24/23	<0.025	0.8	0.58	0.644	-0.064	14.6	5.4	0.0017	0.042	84.7
	MW06-20240415	04/15/24	0.062	1.0	1.70	2.53	-0.830	<5.0	6.0	<0.00056	0.094	69
MW15	MW06-20241025	10/25/24	<0.050	1.4	4.10	5.84	-1.740	<5.0	3.7	<0.00056	0.0092	51
	MW15-20181022	10/22/18	2.5	0.04	0.21	<0.040	210	65	0.0021	<0.00050	<0.00050	29
	MW15-20200128	01/28/20	3.8	0.36	2.1	0.158	1.9	32	0.17	<0.00044	<0.00058	87
	MW15-20200421	04/21/20	--	--	--	--	--	--	--	--	--	--
	MW15-20200721	07/21/20	--	--	--	--	--	--	--	--	--	--
	MW15-20201019	10/19/20	--	--	--	--	--	--	--	--	--	--
	MW15-20210127	01/27/21	--	--	--	--	--	--	--	--	--	--
	MW15-20210420	04/20/21	1.1	0.45	26	0.545	25	16	2.6	<0.00022	<0.00029	81
	MW15-20210726	07/26/21	--	--	--	--	--	--	--	--	--	--
	MW15-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW15-20220426	04/26/22	17	0.21	1.7	0.598	1.1	19	9.5	<0.00022	<0.00029	91
	MW15-20230419	04/19/23	27	0.17	0.49	0.224	0.3	17	8.3	<0.00022	<0.00029	110
	MW15-20231024	10/24/23	0.937	0.52	5.1	2.43	2.7	9.58	5.1	<0.00056	<0.00058	108
MW19	MW15-20240415	04/15/24	<0.050	1.5	160	143	17	<5.0	5.8	<0.00056	<0.00058	120
	MW15-20241028	10/28/24	21	2.2	47	20.3	26.7	12	6.8	<0.00056	<0.00058	53
	MW19-20231025	10/25/23	0.095	0.15	<0.056	<0.150	--	38.2	<0.00055	<0.00056	<0.00058	153
	MW19-20240415	04/15/24	0.18	0.36	0.24	<0.150	0.24	31	<0.00055	<0.00056	<0.00058	52
MW21	MW19-20241024	10/24/24	1.5	0.6	0.4	0.201	0.199	35	0.1	<0.00056	<0.00058	99
	MW21-20181022	10/22/18	<0.05	1.6	0.46	0.093	0.37	67	0.043	<0.0030	<0.0030	11
	MW21-20200129	01/29/20	--	--	--	--	--	--	--	--	--	--
	MW21-20200421	04/21/20	--	--	--	--	--	--	--	--	--	--
	MW21-20200721	07/21/20	--	--	--	--	--	--	--	--	--	--
	MW21-20201020	10/20/20	--	--	--	--	--	--	--	--	--	--
	MW21-20210128	01/28/21	--	--	--	--	--	--	--	--	--	--
	MW21-20210420	04/20/21	--	--	--	--	--	--	--	--	--	--
	MW21-20210727	07/27/21	--	--	--	--	--	--	--	--	--	--
	MW21-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW21-20220426	04/26/22	<0.05	1.3	11	14.5	-3.5	<5.0	8.5	<0.00022	<0.00029	12
	MW21-20230420	04/20/23	<0.05	0.96	2.9	11.0	-8.1	35	8.1	<0.00022	<0.00029	97
	MW21-20231025	10/25/23	<0.125	0.95	8.5	11.0	-2.5	1.54	7.4	<0.00056	<0.00058	23.8
MW24	MW21-20240416	04/16/24	0.14	2.1	90	109.0	-19.0	<5.0	8.3	<0.00056	<0.00058	160
	MW21-20241024	10/24/24	0.25	1.1	42	49.1	-7.1	<5.0	5.7	<0.00056	<0.00058	80
	MW24-20210420	04/20/21	--	--	--	--	--	--	--	--	--	--
	MW24-20210726	07/26/21	--	--	--	--	--	--	--	--	--	--
MW25	MW24-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW24-20220427	04/27/22	--	--	--	--	--	--	--	--	--	--
	MW25-20210420	04/20/21	--	--	--	--	--	--	--	--	--	--
	MW25-20210727	07/27/21	--	--	--	--	--	--	--	--	--	--
MW26	MW25-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW25-20220426	04/26/22	--	--	--	--	--	--	--	--	--	--
	MW26-20210420	04/20/21	--	--	--	--	--	--	--	--	--	--
	MW26-20210726	07/26/21	--	--	--	--	--	--	--	--	--	--
MW27	MW26-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW26-20220427	04/27/22	--	--	--	--	--	--	--	--	--	--
	MW27-20210420	04/20/21	--	--	--	--	--	--	--	--	--	--
	MW27-20210727	07/27/21	--	--	--	--	--	--	--	--	--	--
MW27	MW27-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW27-20220426	04/26/22	--	--	--	--	--	--	--	--	--	--



Table 3
Natural Attenuation Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

MW28	MW28-20200128	01/28/20	<0.05	0.50	0.32	0.456	-0.136	15	1.4	0.0045	0.037	110
	MW28-20200421	04/21/20	--	--	--	--	--	--	--	--	--	--
	MW28-20200721	07/21/20	--	--	--	--	--	--	--	--	--	--
	MW28-20201020	10/20/20	--	--	--	--	--	--	--	--	--	--
	MW28-20210128	01/28/21	--	--	--	--	--	--	--	--	--	--
	MW28-20210421	04/21/21	<0.05	0.59	0.9	1.2	-0.28	13	0.47	<0.00022	0.023	140
	MW28-20210727	07/27/21	--	--	--	--	--	--	--	--	--	--
	MW28-20211013	10/13/21	--	--	--	--	--	--	--	--	--	--
	MW28-20220427	04/27/22	<0.05	0.68	1.1	1.5	-0.360	11	1.4	0.0027	0.043	170
	MW28-20230420	04/20/23	<0.05	0.38	0.56	0.482	0.078	16	1.1	0.0028	0.034	170
	MW28-20231026	10/26/23	<0.125	0.24	0.43	0.263	0.167	22.0	0.43	0.0012	0.011	88.9
MW30	MW28-20240416	04/16/24	<0.050	0.71	1.4	1.38	0.02	11	1.60	0.0036	0.039	110
	MW28-20241028	10/28/24	<0.050	0.75	1.7	0.279	1.421	6.5	3.10	0.02	0.12	110
	MW30-20210420	04/19/21	--	--	--	--	--	--	--	--	--	--
	MW30-20210726	07/26/21	--	--	--	--	--	--	--	--	--	--
MW32	MW30-20211011	10/11/21	--	--	--	--	--	--	--	--	--	--
	MW30-20220426	04/26/22	--	--	--	--	--	--	--	--	--	--
	MW32-20230418	04/18/23	<0.05	0.15	0.21	0.18	0.03	19	2.0	<0.00022	0.081	13
	MW32-20231025	10/25/23	0.030	0.22	0.24	0.306	-0.07	26.4	3.9	<0.00056	0.014	13.5
MW34	MW32-20240416	04/16/24	<0.050	0.18	0.26	<0.150	0.26	29	1.1	<0.00056	0.0042	15
	MW32-20241025	10/25/24	<0.050	0.11	0.22	<0.150	0.22	25	0.4	<0.00056	0.00084	10
	MW34-20230418	04/18/23	<0.05	0.21	0.14	0.172	-0.032	16	3.3	<0.00022	<0.00029	12
	MW34-20231026	10/26/23	<0.025	0.14	0.24	0.375	-0.135	45.9	1.6	<0.00056	<0.00058	11.7
	MW34-20240416	04/16/24	<0.050	0.11	0.58	0.182	0.398	57	1.1	<0.00056	0.00066	11
	MW34-20241024	10/24/24	<0.050	0.14	2.1	0.239	1.861	48	0.94	<0.00056	0.0016	8.6
	Deep Water-Bearing Zone Wells											
MW07	MW7-060206	06/02/06	<0.15	--	4.3	0.00	4.30	65	0.33	<0.01	<0.01	--
	MW07-20140910	09/10/14	2.7	--	<0.06	0.173	0.00	32	<0.0005	<0.0005	<0.0005	--
	Monitoring Well Decommissioned											
MW08	MW08-20140909	09/09/14	<0.05	--	<0.06	0.059	0.00	43	<0.0005	<0.0005	<0.0005	--
	MW08-20181025	10/25/18	<0.05	0.60	0.190	0.087	0.103	41	<0.0010	<0.00050	<0.00050	6.4
	MW08-20200128	01/28/20	<0.05	1.400	0.350	<0.0500	0.300	40	<0.00055	<0.00022	<0.00029	7.7
	MW08-20200421	04/21/20	--	--	--	--	--	--	--	--	--	--
	MW08-20200721	07/21/20	--	--	--	--	--	--	--	--	--	--
	MW08-20201020	10/20/20	--	--	--	--	--	--	--	--	--	--
	MW08-20210127	01/27/21	--	--	--	--	--	--	--	--	--	--
	MW08-20210420	04/20/21	<0.05	0.35	0.081	<0.100	0.00	40	<0.00055	<0.00022	<0.00029	8.8
	MW08-20210726	07/26/21	--	--	--	--	--	--	--	--	--	--
MW09	MW08-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW08-20220426	04/26/22	--	--	--	--	--	--	--	--	--	--
	MW09-20140910	09/10/14	4.7	--	<0.06	<0.04	0.00	27	<0.0005	<0.0005	<0.0005	--
	MW09-20181024	10/24/18	5.1	0.047	0.130	0.092	0.038	25	<0.0010	<0.00050	<0.00050	--
	MW09-20200129	01/20/20	--	--	--	--	--	--	--	--	--	--
	MW09-20200421	04/21/20	--	--	--	--	--	--	--	--	--	--
	MW09-20200721	07/21/20	--	--	--	--	--	--	--	--	--	--
	MW09-20201020	10/20/20	--	--	--	--	--	--	--	--	--	--
	MW09-20210128	01/28/21	--	--	--	--	--	--	--	--	--	--
	MW09-20210420	04/20/21	--	--	--	--	--	--	--	--	--	--
	MW09-20210727	07/27/21	--	--	--	--	--	--	--	--	--	--
	MW09-20211013	10/13/21	--	--	--	--	--	--	--	--	--	--
	MW09-20220427	04/27/22	2.1	0.072	<0.050	<0.100	--	28	0.79	<0.00022	<0.00029	7.5
MW10	MW09-20230420	04/20/23	1.6	0.11	0.058	<0.150	0.06	30	1.0	<0.00022	<0.00029	7.0
	MW09-20231025	10/25/23	0.842	0.2	0.065	<0.150	0.07	31.7	3.5	<0.00056	<0.00058	8.44
	MW09-20240416	04/16/24	0.88	0.25	0.084	<0.150	0.08	30	0.98	<0.00056	<0.00058	6.8
	MW09-20241028	10/28/24	0.64	0.23	0.4	<0.150	0.4	30	2.00	<0.00056	<0.00058	5.8
	MW10-20140910	09/10/14	<0.05	--	<0.06	0.048	0.012	37	<0.0005	<0.0005	<0.0005	--
	MW10-20181024	10/24/18	<0.05	0.18	0.220	<0.040	0.18	45	0.0028	<0.00050	<0.00050	6.1
	MW10-20200129	01/29/20	<0.05	0.35	1.7	1.71	-0.01	<5.0	10	<0.022	<0.029	8.8
	MW10-20200421	04/21/20	<0.05	--	--	--	--	--	--	--	--	--
	MW10-20200721	07/21/20	<0.05	--	--	--	--	--	--	--	--	--
	MW10-20201020	10/20/20	<0.05	--	--	--	--	--	--	--	--	--
	MW10-20210128	01/28/21	<0.05	--	--	--	--	--	--	--	--	--
	MW10-20210420	04/20/21	<0.05	0.24	0.680	0.893	-0.21	28	1.6	<0.00022	<0.00029	8.4
MW11	MW10-20210727	07/27/21	<0.05	--	--	--	--	--	--	--	--	--
	MW10-20211012	10/12/21	<0.05	--	--	--	--	--	--	--	--	--
	MW10-20220426	04/26/22	<0.05	0.26	1.2	9.42	-8.22	33	4.9	<0.00022	<0.00029	7.4
	MW10-20230420	04/20/23	<0.05	0.29	1.2	1.36	-0.16	32	5.8	<0.00022	<0.00029	9.0
	MW10-20231025	10/25/23	<0.025	0.26	2.1	2.33	-0.23	31.0	5.5	<0.00056	<0.00058	8.49
	MW10-20240417	04/17/24	<0.050	0.29	1.0	1.05	-0.05	<5.0	4.1	<0.00056	<0.00058	9.0
	MW10-20241028	10/28/24	1.7	0.39	3.2	0.367	2.833	23.0	9.4	<0.00056	<0.00058	6.1
MW12	MW11-060206	06/02/06	2.8	--	2.8	0.00	2.80	35	<0.01	<0.01	<0.01	--
	MW11-20141007	10/07/14	<0.05	--	<0.06	0.889	--	50	0.042	<0.003	<0.003	--
	MW11-20230419	04/19/23	0.19	0.27	1.8	0.259	1.54	38	<0.00055	<0.00022	<0.00029	6.0
	MW11-20231024	10/24/23	<0.025	0.34	0.32	<0.150	0.17	44.5	0.0059	<0.00056	<0.00058	12.5
	MW11-20240415	04/15/24	0.19	0.30	0.83	<0.150	0.83	36	<0.00055	<0.00056	<0.00058	7.2
	MW11-20241024	10/24/24	0.72	0.19	2.0	0.538	1.462	72	<0.00055	<0.00056	<0.00058	6.1
MW13	MW12-060206	06/02/06	<0.15	--	4.2	0.00	4.2	39	<0.01	<0.01	<0.01	--
	MW12-20181024	10/24/18	--	--	--	--	--	--	--	--	--	--
	MW13-060206	06/02/06	<0.15	--	2.2	0.00	2.2	35	<0.01	<0.01	<0.01	--
	MW13-20181024	10/24/18	--	--	--	--	--	--	--	--	--	--
	MW13-20230419	04/19/23	0.20	<0.010	<0.050	<0.150	--	34	<0.00055	<0.00022	<0.00029	7.5
	MW13-20231024	10/24/23	<0.025	0.31	0.36	0.221	0.139	32.8	0.0014	<0.00056	<0.00058	8.32
MW14	MW13-20240415	04/15/24	0.069	0.042	0.074	<0.150	0.074	35	<0.00055	<0.00056	<0.00058	7.6
	MW13-20241024	10/24/24	<0.050	0.44	1.2	1.38	-0.18	30	0.025	<0.00056	<0.00058	6.9
MW22	MW14-060206	06/02/06	<0.15	--	1.9	0.0	1.9	34	<0.01	<0.01	<0.01	--
	Monitoring Well Decommissioned											
	MW22-20140910	09/10/14	4.9	--	<0.06	<0.04	0.00	24	<0.0005	<0.0005	<0.0005	--
	MW22-20181024	10/24/18	--	--	--	--	--	--	--	--	--	--
	MW22-20200128	01/28/20	3.8	<0.011	0.094	0.101	-0.01	22	<0.00055	<0.00022	<0.00029	6.1
	MW22-20200421	04/21/20	--	--	--	--	--	--	--	--	--	--
	MW22-20200721	07/21/20	--	--	--	--	--	--	--	--	--	--
	MW22-20201019	10/19/20	--	--	--	--	--	--	--	--	--	--
	MW22-20210127	01/27/21	--	--	--	--	--	--	--	--	--	--
	MW22-20210420	04/20/21	2.4	<0.01	<0.05	<0.1	0.00	13	<0.00055	<0.00022	<0.00029	17
	MW22-20210726	07/26/21	--	--	--	--	--	--	--	--	--	--
	MW22-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW22-20220426	04/26/22	--	--	--	--	--	--	--	--	--	--



Table 3
Natural Attenuation Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

MW29	MW29-20200128	01/28/20	<0.05	0.87	2.3	0.178	2.12	37	0.0054	<0.00022	<0.00029	9.9
	MW29-20200421	04/21/20	--	--	--	--	--	--	--	--	--	--
	MW29-20200721	07/21/20	--	--	--	--	--	--	--	--	--	--
	MW29-20201019	10/19/20	--	--	--	--	--	--	--	--	--	--
	MW29-20210128	01/28/21	--	--	--	--	--	--	--	--	--	--
	MW29-20210420	04/20/21	<0.05	0.42	0.41	<0.100	0.310	33	0.00086	0.00024	0.00034	8.5
	MW29-20210726	07/26/21	--	--	--	--	--	--	--	--	--	--
	MW29-20211012	10/12/21	--	--	--	--	--	--	--	--	--	--
	MW29-20220427	04/27/22	--	--	--	--	--	--	--	--	--	--
MW31	MW31-20210420	04/19/21	--	--	--	--	--	--	--	--	--	--
	MW31-20210726	07/26/21	--	--	--	--	--	--	--	--	--	--
	MW31-20210819	08/19/21	--	--	--	--	--	--	--	--	--	--
	MW31-20211011	10/11/21	--	--	--	--	--	--	--	--	--	--
	MW31-20220426	04/26/22	<0.05	0.150	0.099	0.129	-0.03	6.9	0.12	<0.00022	0.0067	32
	MW31-20230418	04/18/23	<0.05	0.055	0.14	<0.15	0.14	<5.0	0.32	<0.00022	0.0810	22
	MW31-20231026	10/26/23	<0.25	0.13	0.75	1.2	-0.45	4.60	0.34	<0.00056	0.12	20.4
	MW31-20240417	04/17/24	0.072	0.14	0.18	0.166	0.01	6.9	0.37	<0.00056	0.13	24
MW35	MW31-20241028	10/28/24	<0.050	0.15	0.16	<0.150	0.16	<5.0	0.73	<0.00056	0.33	20
	MW35-20230418	04/18/23	<0.05	0.049	0.32	0.305	0.02	19	0.0051	0.0046	0.0057	11
	MW35-20231026	10/26/23	0.134	0.042	0.36	<0.150	0.36	22.0	0.016	0.0032	0.0054	12.3
	MW35-20240416	04/16/24	<0.050	0.028	0.056	<0.150	0.06	30	0.0077	<0.00056	<0.00058	10
	MW35-202410/28	10/28/24	<0.050	0.038	0.06	<0.150	0.06	31	0.0510	<0.00056	0.00064	7.7

NOTES:
(1) Analyzed by EPA Method 353.2.
(2) Analyzed by EPA Method 6010C or 6010D.
(3) Analyzed by EPA SM 3500-Fe B or Field Kit Instrument.
(4) Ferric Iron = Total Iron minus Ferrous Iron. If concentrations of Ferrous Iron are non-detect, Ferric Iron is assumed to be equal to Total Iron.
(5) Analyzed by ASTM D516-07 or D516-11.
(6) Analyzed by EPA Method RSK 175.
(7) Analyzed by EPA SM 4500-CI E.

-- = not analyzed/not measured
< = not detected at a concentration above the laboratory reporting limit
EPA = US Environmental Protection Agency
SM = Standard Method



Table 4
Geochemical and Water Quality Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sample Date	Dissolved Oxygen	ORP ⁽¹⁾ (mV)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	pH ⁽¹⁾	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
Shallow Water-Bearing Zone Wells										
MW01	MW1-060206	06/02/06	4.16	198.6	--	--	14.37	6.71	--	--
	MW01-20140910	09/10/14	1.24	120	0.371	367.0	19.74	6.61	150	1.5
	MW01-20181024	10/24/18	2.60	106	0.437	--	15.04	6.59	--	--
	MW01-20200129	01/29/20	5.01	-295.7	0.263	166	7.05	6.43	--	1.1
	MW01-20200421	04/21/20	3.14	-24.8	0.263	20.6	12.20	6.52	--	--
	MW01-20200721	07/21/20	3.20	226.8	0.246	57	17.85	5.66	--	--
	MW01-20201020	10/20/20	5.11	76.3	0.242	13.12	15.74	6.54	--	--
	MW01-20210128	01/28/21	3.20	29	0.203	18.52	12.30	5.29	--	--
	MW01-20210420	04/20/21	6.18	17.7	0.200	16.40	14.54	6.65	--	<1.0
	MW01-20210727	07/27/21	2.74	134.7	0.229	11.17	16.70	7.4	--	--
	MW01-20211012	10/12/21	3.77	-50.3	0.291	14.50	16.50	6.97	--	--
	MW01-20220427	04/27/22	5.21	47.1	0.227	8.40	13.67	6.65	--	--
	MW01-20221117	11/17/22	4.89	103.3	0.392	5.2	15.00	6.68	--	--
MW02	MW02-20181025	10/25/18	2.60	106.9	0.517	21.0	15.73	6.99	--	--
	MW02-20200421	04/21/20	2.72	4.6	0.617	6.30	12.33	6.97	--	--
	MW02-20200721	07/21/20	3.51	-31.5	0.977	5.46	16.65	6.14	--	--
	MW02-20201020	10/20/20	1.92	67.1	0.699	4.30	16.56	6.75	--	--
	MW02-20210128	01/28/21	3.33	15.8	0.699	2.41	11.73	5.58	--	--
	MW02-20210420	04/20/21	2.99	10.4	0.637	2.73	13.25	7.22	--	--
	MW02-20210727	07/27/21	0.78	66.8	0.622	3.06	17.10	8.02	--	--
	MW02-20211012	10/12/21	3.64	-32.3	0.962	5.30	16.10	7.16	--	--
	MW02-20220427	04/27/22	3.81	193.2	0.670	2.85	12.00	7.67	--	--
	MW02-20221117	11/17/22	2.64	99.7	0.745	0.7	15.0	7.00	--	--
	MW02-20230419	04/19/23	4.72	-48.6	0.586	2.32	11.06	7.01	--	--
	MW02-20231025	10/25/23	4.31	-34.6	0.473	2.83	14.81	6.84	--	--
MW03	MW03-20181025	10/25/18	1.80	143.7	0.552	54.6	16.71	7.28	--	--
	MW03-20200129	01/29/20	22.1	-33.0	1.143	6.57	12.52	6.83	--	--
	MW03-20200421	04/21/20	0.60	-190.1	1.115	7.45	12.43	6.77	--	--
	MW03-20200720	07/20/20	0.92	116.5	1.137	6.63	15.93	5.78	--	--
	MW03-20201020	10/20/20	0.93	11.1	1.136	4.77	16.50	6.78	--	--
	MW03-20210128	01/28/21	1.48	9.7	1.230	1.90	12.95	5.89	--	--
	MW03-20210420	04/20/21	1.07	138.2	1.153	3.54	12.87	7.10	--	--
	MW03-20210727	07/27/21	0.09	-200.9	1.028	3.39	17.10	7.71	--	--
	MW03-20211012	10/12/21	0.33	-76.5	1.890	--	15.99	6.91	--	--
	MW03-20220427	04/27/22	0.18	-123.9	1.180	2.26	12.40	7.36	--	--
	MW03-20221117	11/17/22	0.15	-130.3	1.492	0.7	15.4	6.77	--	--
	MW03-20230419	04/19/23	0.31	-116.2	1.200	1.50	11.12	6.67	--	--
	MW03-20231025	10/25/23	0.86	-110.9	0.948	5.05	14.88	6.66	--	--
MW05	MW05-20190207	02/07/19	5.69	172.2	0.253	7.7	8.97	6.82	--	--
	MW05-20200128	01/28/20	0.95	-351.6	0.583	501	7.84	5.49	--	260
	MW05-20200421	04/21/20	0.98	-13.0	0.580	74	12.17	5.25	--	--
	MW05-20200720	07/20/20	1.42	158.2	0.424	47	17.70	4.32	--	--
	MW05-20201020	10/20/20	0.30	57.1	0.320	589	16.06	5.93	--	--
	MW05-20210128	01/28/21	1.31	32.8	0.304	37	12.31	3.48	--	--
	MW05-20210421	04/21/21	1.19	161.1	0.474	51	11.91	6.25	--	29
	MW05-20210727	07/27/21	0.18	-122.5	0.492	25.5	16.80	6.70	--	--
	MW05-20211013	10/13/21	0.16	-146.7	0.420	3233	15.90	6.19	--	--
	MW05-20220427	04/27/22	0.52	-59.7	0.459	54.3	12.20	6.54	--	29
	MW05-20221117	11/17/22	0.24	97.8	0.367	77.3	14.6	4.74	--	--
	MW05-20230420	04/20/23	0.65	-82.1	0.559	92.5	11.1	6.05	--	29
	MW05-20231026	10/26/23	0.50	-81.0	0.461	18.4	13.4	6.41	--	34
MW06	MW06-20240416	04/16/24	0.37	-57.0	0.591	21.2	10.5	6.21	--	37
	MW05-20241028	10/28/24	0.55	-69.8	0.646	32.1	14.2	5.85	--	26
	MW06-20190207	02/07/19	1.43	118.8	0.458	8.88	13.23	7.93	--	--
	MW06-20200128	01/28/20	14.7	-15.6	1.126	12.34	13.56	6.36	--	--
	MW06-20200421	04/21/20	1.12	6.1	0.748	6.67	14.10	6.59	--	--
	MW06-20200721	07/21/20	0.11	-215.2	0.799	4.47	17.86	6.26	--	--
	MW06-20201020	10/20/20	0.32	-44.1	0.620	4.68	16.18	7.28	--	--
	MW06-20210128	01/28/21	0.46	-111	0.717	4.16	12.32	7.25	--	--
	MW06-20210420	04/20/21	0.83	136.4	0.766	3.80	13.79	7.56	--	--
	MW06-20210727	07/27/21	9.53	-134	0.582	4.10	18.09	8.40	--	--
	MW06-20211012	10/12/21	0.59	-71.8	0.506	0.77	15.09	7.57	--	--
	MW06-20220426	04/26/22	0.22	-87.6	0.730	7.74	12.80	7.15	--	3.8
	MW06-20221115	11/15/22	0.20	-10.7	1.075	1.1	14.3	8.44	--	--
MW15	MW06-20230418	04/18/23	0.44	-131.2	0.754	26.9	11.64	7.16	--	4.6
	MW06-20231024	10/24/23	0.36	-167.5	0.894	14.4	14.97	7.75	--	5
	MW06-20240415	04/15/24	7.44	-99.5	1.062	608	11.5	6.68	--	81
	MW06-20241025	10/25/24	9.53	-133.3	0.960	5.10	13.5	7.36	--	8.3
	MW15-20181022	10/22/18	1.71	107.7	0.599	5.39	16.59	6.79	--	2.2
	MW15-20200128	01/28/20	0.60	-338.5	0.749	28.7	8.09	6.13	--	22
	MW15-20200421	04/21/20	0.68	-249.1	0.628	8.54	12.65	5.83	--	--
	MW15-20200721	07/21/20	2.28	216.4	0.763	14.71	16.96	4.06	--	--
	MW15-20201019	10/19/20	19.19	123.6	0.575	9.11	17.39	5.74	--	--
	MW15-20210127	01/27/21	0.56	60.8	0.696	5.72	12.66	6.75	--	--
	MW15-20210420	04/20/21	1.36	66.2	0.672	3.09	13.11	5.98	--	11
	MW15-20210726	07/26/21	0.22	-166.6	0.903	15.90	17.80	7.07	--	--
	MW15-20211012	10/12/21	0.13	-196.6	0.735	12.10	17.00	6.56	--	--
	MW15-20220426	04/26/22	0.41	-10.7	0.818	9.10	11.92	6.53	--	3.8
	MW15-20221116	11/16/22	0.23	-95.3	0.997	14.8	15.8	6.12	--	--
	MW15-20230419	04/19/23	0.99	86.3	0.867	15.7	13.8	6.27	--	3.7
	MW15-20231024	10/24/23	17.36*	-12	0.970	41.9	16.2	6.53	--	6.2
	MW15-20240415	04/15/24	0.39	-66.1	0.889	<2000	12.5	5.10	--	1300
	MW15-20241028	10/28/24	0.21	5.8	0.777	134.0	16.7	5.32	--	200



Table 4
Geochemical and Water Quality Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sample Date	Dissolved Oxygen	ORP ⁽¹⁾ (mV)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	pH ⁽¹⁾	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
MW16	MW16-20181022	10/22/18	2.53	86	0.485	3.14	16.31	6.7	--	--
MW19	MW19-20181024	10/24/18	3.60	126.2	0.770	7.32	16.00	6.99	--	--
	MW19-20231025	10/25/23	5.87	166	1.070	3.10	14.52	6.73	--	2.3
	MW19-20240415	04/15/24	3.08	-20	0.486	11.50	12.30	7.01	--	3.6
	MW19-20241024	10/24/24	4.51	75.7	0.760	2.04	15.70	7.14	--	1.7
MW21	MW21-20181022	10/22/18	1.10	79.2	0.528	8.55	16.28	7.81	--	5.4
	MW21-20200129	01/29/20	40.9	21.5	0.886	3205	14.65	5.63	--	--
	MW21-20200421	04/21/20	1.08	45.0	0.962	21.34	14.48	5.96	--	--
	MW21-20200722	07/22/20	2.68	138.2	1.167	29.39	16.01	5.37	--	--
	MW21-20201020	10/20/20	0.33	2.9	1.185	23.60	16.30	6.00	--	--
	MW21-20210128	01/28/21	0.39	-72.2	1.095	33.20	13.77	6.78	--	--
	MW21-20210420	04/20/21	1.33	124.8	0.994	12.20	15.47	6.86	--	--
	MW21-20210727	07/27/21	4.23	-113.0	1.440	141.00	17.20	7.36	--	--
	MW21-20211012	10/12/21	0.69	-55.9	1.435	6.12	15.68	6.71	--	--
	MW21-20220426	04/26/22	0.19	-93.8	1.130	16.50	13.80	6.82	--	23
	MW21-20221117	11/17/22	0.16	-99.8	1.425	4.9	14.7	6.67	--	--
	MW21-20230420	04/20/23	0.29	-109.2	1.300	9.53	11.99	6.76	--	4.4
	MW21-20231025	10/25/23	0.48	-158.0	1.062	9.05	14.22	6.97	--	7.6
	MW21-20240416	04/16/24	0.13	-96.3	1.440	67.50	13.20	5.45	--	760
	MW21-20241024	10/24/24	0.15	-114.5	1.016	118.00	15.5	6.03	--	230
MW24	MW24-20181024	10/24/18	5.45	154.1	0.441	2.88	15.58	7.00	--	--
	MW24-20200129	01/29/20	0.29	-429.0	1.989	52.5	7.40	6.92	--	--
	MW24-20200421	04/21/20	0.20	-148.4	1.660	75	11.89	6.75	--	--
	MW24-20200721	07/21/20	3.41	59.1	1.753	8.52	15.98	6.87	--	--
	MW24-20201019	10/19/20	0.31	-86.7	1.744	7.22	15.71	6.47	--	--
	MW24-20210128	01/28/21	1.73	34.7	1.056	11.00	11.09	6.05	--	--
	MW24-20210420	04/20/21	0.49	-125.6	1.126	16.00	13.05	6.71	--	--
	MW24-20210726	07/26/21	0.00	-173.0	1.570	120.00	18.99	7.29	--	--
	MW24-20211012	10/12/21	0.11	-260.4	2.227	14.20	15.30	6.88	--	--
	MW24-20220427	04/27/22	0.41	-125.1	1.232	10.50	10.90	7.08	--	--
	MW24-20221116	11/16/22	1.52	-122.4	1.965	7.8	13.3	6.55	--	--
	MW24-20230419	04/19/23	0.76	-155.1	1.445	24.9	11.3	6.82	--	--
	MW24-20231026	10/26/23	0.38	-193.3	1.268	62.3	14.4	7.31	--	--
	MW24-20240416	04/16/24	0.49	-58.3	1.777	53.6	11.5	6.52	--	--
	MW24-20241028	10/28/24	0.29	-94.4	1.301	90.9	15.2	6.68	--	--
MW25	MW25-20181025	10/25/18	7.15	101.8	0.051	369	15.78	7.09	--	--
	MW25-20200128	01/28/20	15.30	17.4	0.134	24	11.99	7.43		
	MW25-20200421	04/21/20	Grab Sample Collected (No Geochemical Data Recorded)							
	MW25-20200721	07/21/20	0.38	-199.5	0.276	27.7	16.47	6.43	--	--
	MW25-20201020	10/20/20	0.15	-68.4	0.340	13.22	16.18	6.71	--	--
	MW25-20210128	01/28/21	0.86	-96.2	0.452	12.00	11.99	7.57	--	--
	MW25-20210420	04/20/21	0.51	146.0	0.427	6.25	12.10	7.85	--	--
	MW25-20210727	07/27/21	2.86	-188.0	0.416	82.60	19.59	7.99	--	--
	MW25-20211012	10/12/21	2.38	-21.6	0.072	8.68	15.29	6.89	--	--
	MW25-20220426	04/26/22	0.25	75.0	0.088	23.20	12.20	6.73	--	--
	MW25-20221115	11/15/22	0.21	0.3	0.158	1,267	14.7	8.49	--	--
	MW25-20230418	04/18/23	2.96	107.6	0.112	<2000	9.76	6.26	--	--
	MW25-20231024	10/24/23	0.23	-105.0	0.141	556	15.40	6.98	--	--
MW26	MW26-20181022	10/22/18	3.22	108.4	0.262	3.89	15.61	7.26	--	--
	MW26-20200128	01/28/20	7.22	-202.0	1.244	2.51	7.45	6.74	--	--
	MW26-20200421	04/21/20	6.92	164.2	0.843	5.52	11.42	6.70	--	--
	MW26-20200721	07/21/20	1.31	194.6	0.540	8.29	16.19	6.60	--	--
	MW26-20201019	10/19/20	20.80	180.6	0.299	5.03	16.16	6.27	--	--
	MW26-20210128	01/28/21	3.98	125.3	0.297	8.00	11.14	8.62	--	--
	MW26-20210420	04/20/21	5.96	74.0	0.227	1.83	11.86	6.58	--	--
	MW26-20210726	07/26/21	4.00	104.0	0.323	0.10	19.23	7.35	--	--
	MW26-20211012	10/12/21	4.68	-30.4	0.792	3.80	15.70	6.94	--	--
	MW26-20220427	04/27/22	7.10	122.2	0.472	0.40	10.75	6.71	--	--
	MW26-20221117	11/17/22	6.16	246.3	0.448	7.9	14.2	5.49	--	--
	MW26-20230419	04/19/23	6.81	121.0	0.755	0.53	11.0	6.91	--	--
	MW26-20231024	10/24/23	18.62*	106.0	0.788	2.26	14.2	7.09	--	--
MW27	MW27-20190207	02/07/19	2.17	138.5	0.543	93.2	11.87	7.02	--	--
	MW27-20209128	01/28/20	--	102.2	0.918	9.76	12.01	6.23	--	--
	MW27-20200421	04/21/20	3.14	155.0	0.685	7.42	12.87	6.36	--	--
	MW27-20200721	07/21/20	0.28	101.6	0.784	7.02	17.66	5.71	--	--
	MW27-20201020	10/20/20	0.49	78.1	0.639	11.20	16.80	6.16	--	--
	MW27-20210128	01/28/21	2.06	57.2	0.894	11	11.17	7.74	--	--
	MW27-20210420	04/20/21	3.81	202.4	0.776	6.91	12.9	7.02	--	--
	MW27-20210727	07/27/21	0.37	-99	0.841	5.2	21.68	7.38	--	--
	MW27-20211012	10/12/21	0.82	-10.8	0.802	0.18	15.54	6.62	--	--
	MW27-20220426	04/26/22	0.66	201.1	0.814	7.94	12.80	6.79	--	--
	MW27-20221115	11/15/22	0.32	182.8	1.656	2.5	15.7	9.04	--	--
	MW27-20230418	04/18/23	1.58	132.2	1.039	5.56	11.0	6.57	--	--
	MW27-20231025	10/25/23	0.80	-82.1	1.062	6.86	15.8	6.86	--	--
	MW27-20240415	04/15/24	3.47	124.0	1.168	5.70	11.0	6.64	--	--
	MW27-20241025	10/25/24	0.45	15.4	1.195	4.92	15.2	6.64	--	--
MW28	MW28-20200128	01/28/20	12.8	-17.20	0.834	4.38	13.29	7.17	--	4.4
	MW28-20200422	04/22/20	2.32	70.80	0.913	4.49	12.38	7.14	--	--
	MW28-20200721	07/21/20	0.09	-196.0	1.064	3.47	15.50	6.56	--	--
	MW28-20201020	10/20/20	0.84	-5.7	0.879	4.99	16.01	7.90	--	--
	MW28-20210128	01/28/21	0.32	-20.8	0.835	4.25	13.22	7.33	--	--
	MW28-20210420	04/21/21	3.81	154.1	0.883	2.54	12.11	7.40	--	6.0
	MW28-20210727	07/13/21	0.37	-167.6	0.854	2.97	16.60	8.21	--	--
	MW28-20211013	10/13/21	0.82	-147.9	0.756	1.93	15.30	7.47	--	--
	MW28-20220427	04/27/22	0.26	-89.3	0.991	0.40	11.88	7.28	--	4.8
	MW28-20221117	11/17/22	0.38	-12.7	1.077	0.8	14.8	6.96	--	--
	MW28-20230420	04/20/23	0.37	-86.6	1.047	3.09	10.30	6.90	--	3.3
	MW28-20231026	10/26/23	0.99	-24.8	0.747	2.96	13.95	7.56	--	6.0
	MW28-20240416	04/16/24	0.24	-118.3	0.844	11.60	11.40	6.77	--	6.0
	MW28-20241028	10/28/24	0.08	-104.6	0.983	17.3	15.4	7.07	--	4.8



Table 4
Geochemical and Water Quality Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sample Date	Dissolved Oxygen	ORP ⁽¹⁾ (mV)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	pH ⁽¹⁾	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
MW30	MW30-20210127	01/27/21	3.58	172.4	0.362	3.64	13.83	8.07	--	--
	MW30-20210420	04/19/21	0.98	182.8	0.977	3.58	14.31	6.62	--	--
	MW30-20210726	07/26/21	0.13	2.9	0.653	2.15	16.70	7.70	--	--
	MW30-20211011	10/11/21	0.36	75.5	0.638	3.50	16.60	6.81	--	--
	MW30-20220426	04/26/22	1.55	157.0	1.467	0.50	12.51	6.33	--	--
	MW30-20221116	11/16/22	0.18	55.7	1.412	0.9	15.8	6.60	--	--
	MW30-20230418	04/18/23	2.15	123.7	0.954	2.31	11.90	6.29	--	--
	MW30-20231024	10/24/23	0.75	-96.4	0.989	1.43	14.21	6.96	--	--
MW32	MW30-20240415	04/15/24	0.26	24.8	1.147	4.57	13.0	6.53	--	--
	MW30-20241024	10/24/24	0.59	36.3	1.096	1.99	15.9	6.76	--	--
	MW32-20221116	11/16/22	0.35	-148.9	0.944	1.4	15.4	7.55	--	--
	MW32-20230418	04/18/23	0.15	-234.8	0.531	1.05	12.8	7.93	--	2.2
	MW32-20231025	10/25/23	4.18	-166.0	0.544	2.90	14.9	7.57	--	2.2
MW34	MW32-20240416	04/16/24	0.25	-4.6	0.543	4.54	12.8	7.88	--	2.6
	MW32-20241025	10/25/24	0.14	-122.2	0.452	2.59	16.2	7.68	--	1.6
	MW34-20221116	11/16/22	0.19	-166.9	0.630	2.8	15.0	7.71	--	--
	MW34-20230418	04/18/23	0.19	-359.8	0.445	3.42	13.0	8.10	--	6.2
	MW34-20231026	10/26/23	0.27	-98.6	0.440	8.25	15.1	7.45	--	1.8
MW36	MW34-20240416	04/16/24	2.94	-142.9	0.444	4.73	11.8	8.05	--	2.3
	MW34-20241024	10/24/24	0.60	-99.7	0.370	2.40	15.6	7.35	--	2.0
	MW36-20221115	11/15/22	0.19	-6.8	1.371	1.6	14.5	8.88	--	--
	MW36-20230418	04/18/23	0.15	-172.8	0.747	1.40	11.3	7.74	--	--
	MW36-20231025	10/25/23	4.92*	-160	0.858	2.50	13.5	7.41	--	--
Deep Water-Bearing Zone Wells										
MW07	MW7-060206	06/02/06	0.11	20.6	--	--	15.30	7.62	--	--
	MW07-20140910	09/10/14	0.34	20.7	0.305	21.9	16.70	7.42	140	<1.0
Monitoring Well Decommissioned										
MW08	MW08-20140909	09/09/14	0.22	21	0.302	40.5	15.98	8.00	130	<1.0
	MW08-20181025	10/25/18	1.78	114.9	0.369	5.16	16.17	7.69	--	1.10
	MW08-20200128	01/28/20	0.68	-310.7	0.325	10.4	8.78	7.89	--	<1.0
	MW08-20200421	04/21/20	0.57	12.9	0.32	5.16	13.18	8.39	--	--
	MW08-20200721	07/21/20	1.66	191.1	0.288	5.84	15.22	6.34	--	--
	MW08-20201019	10/19/20	0.18	87.0	0.281	12	14.85	7.74	--	--
	MW08-20210127	01/27/21	2.76	99.4	0.298	4	13.59	7.36	--	--
	MW08-20210420	04/20/21	1.87	55.6	0.278	1.73	13.74	7.62	--	<1.0
	MW08-20210726	07/26/21	0.12	-153.8	0.280	2.89	15.40	8.98	--	--
	MW08-20211012	10/12/21	0.86	-173.6	0.398	5.60	13.70	7.87	--	--
	MW08-20220426	04/26/22	0.37	-15.3	0.313	4.20	12.86	8.03	--	--
	MW08-20221116	11/16/22	0.21	-134.1	0.569	1.4	14.6	7.85	--	--
MW09	MW08-20230419	04/19/23	0.32	58.3	0.320	9.26	13.0	7.99	--	--
	MW08-20231023	10/23/23	2.22	0.3	0.324	9.46	15.2	8.41	--	--
	MW09-20140910	09/10/14	2.90	-87	0.241	0.98	17.90	7.46	96	<1.0
	MW09-20181024	10/24/18	4.52	161.1	0.276	11.90	16.72	7.23	--	<1.0
	MW09-20200129	01/29/20	12.2	-54.5	0.276	4.28	14.52	7.26	--	--
	MW09-20200421	04/21/20	0.28	-70.7	0.258	5.21	14.02	7.22	--	--
	MW09-20200721	07/21/20	2.03	203.5	0.263	7.95	19.31	6.44	--	--
	MW09-20201020	10/20/20	0.55	-37.4	0.535	5.31	16.24	9.24	--	--
	MW09-20210128	01/28/21	1.02	-15.4	0.274	1.91	14.06	5.59	--	--
	MW09-20210420	04/20/21	0.56	184.5	0.268	2.77	15.00	7.55	--	--
	MW09-20210727	07/27/21	0.08	3.2	0.260	2.73	18.20	7.72	--	--
	MW09-20211013	10/13/21	0.50	-89.1	0.232	2.61	15.40	7.21	--	--
MW10	MW09-20220427	04/27/22	0.25	35.4	0.243	2.92	14.90	7.3	--	<1.0
	MW09-20221117	11/17/22	0.19	56.4	0.259	4.9	14.6	5.57	--	--
	MW09-20230420	04/20/23	0.28	-14.8	0.295	1.75	12.6	6.88	--	<1.0
	MW09-20231025	10/25/23	0.30	-81.9	0.298	3.49	14.6	6.75	--	<1.0
	MW09-20240416	04/16/24	10.69	-5.8	0.281	4.12	13.9	6.64	--	<1.0
	MW09-20241028	10/28/24	0.15	12.3	0.296	13.90	15.0	6.75	--	<1.0
	MW10-20140910	09/10/14	0.29	-49	0.331	36.3	16.65	7.89	120	<1.0
	MW10-20181024	10/24/18	1.05	102.9	0.356	7.37	16.63	7.96	--	1.00
	MW10-20200129	01/29/20	27.5	-69.6	0.322	4.99	14.68	7.04	--	8.6
	MW10-20200422	04/22/20	1.42	12.5	0.317	4.33	14.04	7.05	--	--
	MW10-20200722	07/22/20	2.21	73.8	0.337	6.37	16.40	6.00	--	--
	MW10-20201020	10/20/20	0.19	-47.2	0.298	4.54	15.73	7.48	--	--
	MW10-20210128	01/28/21	0.32	-67.5	0.34	3.38	13.17	7.43	--	--
	MW10-20210420	04/20/21	0.38	154.6	0.320	2.61	15.76	8.15	--	<1.0
	MW10-20210727	07/27/21	0.00	-145	0.370	57.20	17.08	8.00	--	--
MW11	MW10-20211012	10/12/21	0.38	-56.8	0.337	--	14.98	7.20	--	--
	MW10-20220426	04/26/22	0.21	-101.8	0.244	6.37	14.10	7.43	--	1.7
	MW10-20221117	11/17/22	0.18	-116.5	0.472	2.4	14.0	7.16	--	--
	MW10-20230420	04/20/23	0.28	-76.7	0.314	2.42	12.37	7.09	--	1.6
	MW10-20231025	10/25/23	0.30	-173	0.339	11.00	14.51	7.26	--	<1.0
	MW10-20240417	04/17/24	0.44	-176.4	0.342	8.12	12.5	7.08	--	11
MW12	MW10-20241028	10/28/24	0.08	-123.3	0.366	5.61	15.4	6.98	--	<1.0
	MW11-060206	06/02/06	0.32	149.2	--	--	13.65	7.15	--	--
	MW11-20141007	10/07/14	0.22	-124.5	0.252	40.0	15.00	9.15	110	2.6
MW13	MW11-20230419	04/19/23	3.17	-65.7	0.358	7.08	12.47	7.32	--	7.0
	MW11-20231024	10/24/23	16.05*	177	0.333	9.13	14.22	7.55	--	<1.0
	MW11-20240415	04/15/24	0.86	175.9	0.278	12.40	12.10	7.02	--	5.3
	MW11-20241024	10/24/24	1.84	117.1	0.485	51.20	14.4	6.97	--	20
MW13	MW12-060206	06/02/06	0.11	-91.2	--	--	15.34	7.14	--	--
	MW12-20181024	10/24/18	1.36	109.3	0.281	4.2	15.81	7.61	--	--
MW13	MW13-060206	06/02/06	0.11	53.1	--	--	14.91	7.4	--	--
	MW13-20181024	10/24/18	3.66	175.8	0.246	3.56	15.83	7.37	--	--
	MW13-20230419	04/19/23	5.95	90.7	0.264	0.35	12.80	6.87	--	<1.0
	MW13-20231024	10/24/23	17.96*	70	0.298	2.05	15.10	7.60	--	<1.0
	MW13-20240415	04/15/24	2.11	157.5	0.243	2.11	13.80	6.56	--	<1.0
	MW13-20241024	10/24/24	0.18	-125.7	0.279	53.8	15.10	7.63	--	<1.0



Table 4
Geochemical and Water Quality Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well ID	Sample ID	Sample Date	Dissolved Oxygen	ORP ⁽¹⁾ (mV)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	pH ⁽¹⁾	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
MW14	MW14-060206	06/02/06	0.10	-103.5	--	--	15.12	7.5	--	--
	Monitoring Well Decommissioned									
MW22	MW22-20140910	09/10/14	5.95	179.3	0.28	3.52	16.84	6.78	100	<1.0
	MW22-20181024	10/24/18	5.24	177.6	0.249	11.00	14.99	6.74	--	--
	MW22-20200128	01/28/20	6.02	-77.8	0.263	6.63	8.38	6.92	--	<1.0
	MW22-20200421	04/21/20	8.54	181.0	0.176	5.21	12.16	6.38	--	--
	MW22-20200721	07/21/20	4.60	226.2	0.186	6.26	14.85	5.95	--	--
	MW22-20201019	10/19/20	4.80	138.0	0.224	3.43	14.42	6.92	--	--
	MW22-20210127	01/27/21	5.44	119.1	0.243	3.79	12.66	7.25	--	--
	MW22-20210420	04/20/21	7.64	77.9	0.194	1.75	12.75	6.55	--	<1.0
	MW22-20210726	07/26/21	5.13	116.0	0.250	0.00	19.66	7.32	--	--
	MW22-20211012	10/12/21	5.04	-84.1	0.309	2.30	14.50	7.24	--	--
	MW22-20220426	04/26/22	7.33	61.9	0.245	2.00	12.32	6.99	--	--
	MW22-20221116	11/16/22	3.34	33.2	0.509	1.0	13.0	6.92	--	--
	MW22-20230419	04/19/23	5.52	73.4	0.275	0.58	11.8	7.10	--	--
	MW22-20231024	10/24/23	21.99*	54.0	0.299	0.55	14.1	7.37	--	--
MW29	MW29-20200128	01/28/20	9.90	-7.6	0.277	47.58	14.19	7.38	--	<1.0
	MW29-20200422	04/22/20	1.30	68.2	0.249	7.26	12.89	7.52	--	--
	MW29-20200721	07/21/20	1.45	183.5	0.235	9.76	17.80	6.40	--	--
	MW29-20201019	10/19/20	14.32	149.0	0.232	5.76	14.79	6.68	--	--
	MW29-20210128	01/28/21	1.31	-16.6	0.247	1.88	13.42	7.05	--	--
	MW29-20210420	04/20/21	0.59	193.2	0.247	7.25	12.90	8.28	--	<1.0
	MW29-20210726	07/26/21	0.00	-167.0	0.283	2.10	16.45	8.37	--	--
	MW29-20211012	10/12/21	0.10	-221.7	0.337	3.40	15.00	7.75	--	--
	MW29-20220427	04/27/22	0.29	-113.0	0.273	0.40	12.37	7.92	--	--
	MW29-20221116	11/16/22	0.22	-147.1	0.499	2.9	14.1	7.55	--	--
	MW29-20230419	04/19/23	0.38	-86.8	0.265	8.82	11.77	7.59	--	--
	MW29-20231025	10/25/23	3.94	-112.0	0.306	21.50	13.63	7.13	--	--
	MW29-20240416	04/16/24	0.24	-41.9	0.251	29.0	13.0	7.08	--	--
	MW29-20241024	10/24/24	0.14	-150.2	0.265	23.1	14.7	7.69	--	--
MW31	MW31-20210127	01/27/21	4.56	21.8	0.341	8.21	14.00	7.61	--	--
	MW31-20210420	04/19/21	1.24	-70.2	0.311	5.83	15.71	7.56	--	--
	MW31-20210726	07/26/21	0.10	-182.8	0.310	2.25	16.60	8.19	--	--
	MW31-20210819	08/19/21	0.45	-119.7	0.328	4.28	15.90	6.88	--	--
	MW31-20211011	10/11/21	0.45	-95.4	0.348	5.30	14.78	7.56	--	--
	MW31-20220426	04/26/22	0.26	-250.1	0.371	1.20	13.51	8.49	--	2.1
	MW31-20221116	11/16/22	0.11	-247.3	0.661	0.9	14.6	7.75	--	--
	MW31-20230418	04/18/23	0.19	-291.2	0.358	2.26	12.72	7.78	--	3.2
	MW31-20231026	10/26/23	0.21	-324.4	0.357	5.88	13.78	8.74	--	8.7
MW33	MW31-20240417	04/17/24	0.44	-279.7	0.360	3.21	12.90	7.88	--	3.2
	MW31-20241028	10/28/24	0.45	-268.5	0.381	2.06	14.70	7.69	--	2.2
	MW33-20221116	11/16/22	0.13	-301.3	0.576	2.4	14.7	8.21	--	--
	MW33-20230418	04/18/23	0.18	-353.2	0.286	2.29	12.0	8.39	--	--
	MW33-20231024	10/24/23	0.50	-264.4	0.320	3.38	13.4	8.61	--	--
	MW33-20240416	04/16/24	6.08	-172.9	0.297	2.63	12.3	8.36	--	--
	MW33-20241024	10/24/24	0.14	-196.5	0.299	4.86	15.3	8.39	--	--
	MW35-20221115	11/15/22	0.16	-293.4	0.837	6.8	14.4	9.87	--	--
	MW35-20230418	04/18/23	0.13	-284.5	0.312	4.55	13.2	8.60	--	3.8
MW35	MW35-20231026	10/26/23	0.03	-113.6	0.306	1.52	14.6	7.60	--	<1.0
	MW35-20240416	04/16/24	0.18	-98.6	0.303	4.55	12.5	8.31	--	<1.0
	MW35-20241028	10/28/24	0.61	-148.9	0.307	1.34	14.2	7.98	--	<1.0
	MW37-20221115	11/15/22	0.18	-77.3	0.509	1.1	14.3	9.23	--	--
MW37	MW37-20230418	04/18/23	0.22	-194.2	0.273	1.27	12.5	8.40	--	--
	MW37-20231024	10/24/23	0.38	-194.0	0.299	0.99	13.7	8.62	--	--
	MW37-20240415	04/15/24	0.22	-49.4	0.276	3.23	12.6	8.27	--	--
	MW37-20241025	10/25/24	0.19	-193.0	0.277	1.25	15.2	8.36	--	--
IW33	IW33-20190312	03/12/19	--	76.3	0.612	2.75	12.99	8.19	--	--
IW34	IW34-20190312	03/12/19	--	34.9	0.298	5.76	14.62	8.57	--	--
	IW34-20231117	11/17/23	0.39	-194.0	0.585	7.34	12.42	5.85	--	--

NOTES:

Data prior to 2006 obtained by Farallon Consulting LLC of Issaquah, Washington.

⁽¹⁾Analyzed by field instrument.

⁽²⁾Analyzed by EPA SM 2320B.

⁽³⁾Analyzed by EPA SM 5310B.

*Dissolved oxygen value likely inaccurate due to water quality meter DO probe malfunctioning.

-- = not analyzed

< = not detected at a concentration above the laboratory reporting limit

°C = degrees Celsius

CaCO₃ = calcium carbonate

EPA = US Environmental Protection Agency

mg/L = milligrams per liter

mS/cm = millisiemens per centimeter

mV = millivolts

NTU = nephelometric turbidity units

ORP = oxidation-reduction potential

SM = Standard Method



Table 5
Groundwater Analytical Results for Volatile Fatty Acids
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well Identification No.	Sample Identification	Sample Date	Analytical Results					
			Lactate ⁽¹⁾ (mg/L)	Acetate ⁽¹⁾ (mg/L)	Propionate ⁽¹⁾ (mg/L)	Formate ⁽¹⁾ (mg/L)	Butyrate ⁽¹⁾ (mg/L)	Pyruvate ⁽¹⁾ (mg/L)
Shallow Water-Bearing Zone Wells								
MW01	MW01-20200129	01/29/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW01-20200421	04/21/20	<0.39	2.3	<0.31	<0.22	<0.41	<0.69
	MW01-20210420	04/20/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
MW05	MW05-20200128	01/28/20	<0.39	297	83	2.5	66	12
	MW05-20200421	04/21/20	<0.39	67	0.75	<0.22	4.9	<0.69
	MW05-20210420	04/21/21	<0.39	20	1.7	<0.22	<0.41	<0.69
	MW05-20220427	04/27/22	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW05-20230420	04/20/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
	MW05-20231026	10/26/23	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
	MW05-20240416	04/16/24	<0.50	1.0 ^J	<0.26	1.2 ^J	<0.06	<0.75
MW06	MW05-20241028	10/28/24	1.2 ^J	0.69 ^J	<0.30	0.81 ^J	<0.15	<0.75
	MW06-20210420	04/20/21	--	--	--	--	--	--
	MW06-20220426	04/26/22	<0.39	1.0	<0.31	0.37	<0.41	<0.69
	MW06-20230418	04/18/23	4.1	<1.4	<0.10	<1.3	<0.06	0.19
	MW06-20231024	10/24/23	<0.50	0.81 ^J	<0.26	<0.25	<0.06	<0.75
	MW06-20240415	04/15/24	31 ^J	266	<5.3	<5.0	15 ^J	<15
MW15	MW06-20241025	10/25/24	1.2 ^J	0.70 ^J	<0.30	0.68 ^J	<0.15	<0.75
	MW15-20181022	10/22/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW15-20200128	01/28/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW15-20200421	04/21/20	<0.39	2.1	0.49	<0.22	<0.41	<0.69
	MW15-20210420	04/20/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW15-20220426	04/26/22	<0.39	0.96	<0.31	0.35	<0.41	<0.69
	MW15-20230419	04/19/23	<0.62	<1.4	<0.10	<1.3	<0.06	0.25
	MW15-20231024	10/24/23	<0.50	0.97 ^J	<0.26	<0.25	<0.06	<0.75
MW19	MW15-20240415	04/15/24	<10	532	478	23 ^J	233	<15
	MW15-20241028	10/28/24	1.4 ^J	191	26	<0.30	33	<0.75
	MW19-20231025	10/25/23	<0.50	0.84 ^J	<0.26	<0.25	<0.06	<0.75
MW21	MW19-20240415	04/15/24	1.6 ^J	1.0 ^J	<0.26	1.0 ^J	<0.06	<0.75
	MW19-20241024	10/24/24	1.3 ^J	0.67 ^J	<0.30	0.67 ^J	<0.15	<0.75
	MW21-20181022	10/22/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW21-20210420	04/20/21	--	--	--	--	--	--
	MW21-20220426	04/26/22	<0.39	10.5	0.52	0.57	<0.41	<0.69
	MW21-20230420	04/20/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
	MW21-20231025	10/25/23	<0.50	0.79 ^J	<0.26	<0.25	<0.06	<0.75
MW28	MW21-20240416	04/16/24	<10	684	314	20 ^J	154	<15
	MW21-20241024	10/24/24	<0.50	71	119	1.3 ^J	21	<0.75
	MW28-20200128	02/28/20	3.2	<0.54	<0.31	<0.22	<0.41	<0.69
	MW28-20200422	04/22/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW28-20210420	04/21/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW28-20220427	04/27/22	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW28-20230420	04/20/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
	MW28-20231026	10/26/23	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
MW32	MW28-20240416	04/16/24	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
	MW28-20241028	10/28/24	1.2 ^J	0.72 ^J	<0.30	0.63 ^J	<0.15	<0.75
	MW32-20230418	04/18/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
	MW32-20231025	10/25/23	<0.50	0.75 ^J	<0.26	<0.25	<0.06	<0.75
MW34	MW32-20240416	04/16/24	32	<5.9	<5.3	<5.0	<1.2	<15
	MW32-20241025	10/25/24	1.3 ^J	<0.50	<0.30	<0.30	<0.15	<0.75
	MW34-20230418	04/18/23	<0.62	5.40	<0.10	<1.3	<0.06	<0.15
	MW34-20231026	10/26/23	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
MW34	MW34-20240416	04/16/24	<0.50	1.0 ^J	<0.26	1.0 ^J	<0.06	<0.75
	MW34-20241024	10/24/24	1.2 ^J	0.83 ^J	<0.30	0.65 ^J	<0.15	<0.75
	Deep Water-Bearing Zone Wells							
MW08	MW08-20181025	10/25/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW08-20200128	01/28/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW08-20200421	04/21/20	<0.39	268	91	1.6	73	16
	MW08-20210420	04/20/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
MW09	MW09-20181024	10/24/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW09-20210420	04/20/21	--	--	--	--	--	--
	MW09-20220427	04/27/22	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW09-20230420	04/20/23	<0.62	<1.4	<0.10	<1.3	<0.06	0.4 ^J
	MW09-20231025	10/25/23	<0.50	0.61 ^J	<0.26	<0.25	<0.06	<0.75
	MW09-20240416	04/16/24	1.8 ^J	1.3 ^J	<0.26	1.3 ^J	<0.06	<0.75
MW10	MW09-20241028	10/28/24	<0.50	<0.50	<0.30	<0.30	<0.15	<0.75
	MW10-20181024	10/24/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW10-20200129	01/29/20	<0.39	0.31	0.4	<0.22	<0.41	<0.69
	MW10-20200422	04/22/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW10-20210420	04/20/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW10-20220426	04/26/22	<0.39	1.1	<0.31	0.43	<0.41	<0.69
	MW10-20230420	04/20/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
	MW10-20231025	10/25/23	2.4	18	<0.26	82	<0.06	<0.75
MW11	MW10-20240417	04/17/24	2.2	15	<0.26	1.1 ^J	<0.06	<0.75
	MW10-20241028	10/28/24	1.6 ^J	1.0 ^J	<0.30	1.1 ^J	<0.15	<0.75
	MW11-20230419	04/19/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
	MW11-20231024	10/24/23	<0.50	1.0 ^J	<0.26	<0.25	<0.06	<0.75
MW11	MW11-20240415	04/15/24	1.6 ^J	1.0 ^J	<0.26	1.2 ^J	<0.06	<0.75
	MW11-20241024	10/24/24	1.3 ^J	0.93 ^J	<0.30	0.63 ^J	<0.15	<0.75



Table 5
Groundwater Analytical Results for Volatile Fatty Acids
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

MW13	MW13-20230419	04/19/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
	MW13-20231024	10/24/23	<0.50	0.63^J	<0.26	<0.25	<0.06	<0.75
	MW13-20240415	04/15/24	<0.50	0.87	<0.26	<0.25	<0.06	<0.75
	MW13-20241024	10/24/24	1.2^J	0.59^J	<0.30	0.65^J	<0.15	<0.75
MW22	MW22-20200128	01/28/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW22-20200421	04/21/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW22-20210420	04/20/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
MW29	MW29-20201028	01/28/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW29-20200422	04/22/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
	MW29-20210420	04/20/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
MW31	MW31-20210420	04/19/21	--	--	--	--	--	--
	MW31-20220426	04/26/22	<0.39	4.9	<0.31	0.40	<0.41	<0.69
	MW31-20230418	04/18/23	<0.62	8.1	<0.10	<1.3	<0.06	<0.15
	MW31-20231026	10/26/23	<0.50	2.2	<0.26	<0.25	<0.06	<0.75
	MW31-20240417	04/17/24	<0.50	5.2	<0.26	1.1^J	<0.06	<0.75
	MW31-20241028	10/28/24	<0.50	6.1	<0.30	0.74^J	<0.15	<0.75
MW35	MW35-20220426	04/26/22	<0.62	1.9^J	<0.10	<1.3	<0.06	<0.15
	MW35-20231026	10/26/23	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
	MW35-20240416	04/16/24	1.6^J	1.1^J	<0.26	1.1^J	<0.06	<0.75
	MW35-20241028	10/28/24	<0.50	0.70^J	<0.30	0.66^J	<0.15	<0.75

NOTES:

Bold indicates concentration detected is above laboratory reporting limits.

Analyses performed by SiREM in Guelph, ON, SiREM in Knoxville, TN, or AmTEST Laboratories in Kirkland, Washington.

⁽¹⁾ Analyzed by Ion Chromatography with Electrical Conductivity Detection.

Laboratory Notes:

^J The associated value is an estimated result between the QL and the RL.

-- = not measured/ not applicable

< = not detected at a concentration exceeding the laboratory reporting limit

EPA = US Environmental Protection Agency

mg/L = milligrams per liter

QL = quantitation limit

RL = reporting limit



Table 6
Mann-Kendall Non-Parametric Trend Results for Fourth Quarter 2024
Plastic Sales and Sevice's Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Well No.	PCE	TCE	trans-1,2-DCE	cis-1,2-DCE	VC	Last Sample Date	PCE	TCE	trans-1,2-DCE	cis-1,2-DCE	VC	Comments
Plume Stability						micrograms per liter (ug/L)						
Shallow Zone							Shallow Zone					Shallow Zone
MW03	Increasing	NA	NA	NA	Decreasing	10/28/2024	6.7	3.9	6	< 0.20	0.5	4th Ave West ROW south of Woodlawn Ave. ROW
MW05	NA	NA	NA	NA	Decreasing	10/28/2024	< 0.20	< 0.20	< 0.20	0.68	0.75	Alley between east and west developments
MW06	NA	NA	NA	Decreasing	Stable	10/25/2024	0.98	1.8	0.21	19	23	Woodlawn Ave ROW downgradient of source area
MW15	NA	NA	NA	NA	Increasing	10/28/2024	< 0.20	< 0.20	< 0.20	2.4	0.60	Woodlawn Ave ROW downgradient of source area
MW24	NA	NA	NA	NA	Increasing	10/28/2024	0.32	< 0.20	< 0.20	< 0.20	0.9	Woodlawn Ave adjacent to former Laundry building
MW28	Decreasing	NA	NA	Decreasing	Decreasing	10/28/2024	7.7	< 0.40	0.47	48	28	Woodlawn Ave ROW adjacent to former solvent tanks
MW34	NA	NA	NA	NA	Decreasing	10/24/2024	0.3	0.21	< 0.20	0.96	1.1	4th Ave West adjacent to 6900 Green Lake Way North
IW08	NA	NA	NA	Increasing	Increasing	10/23/2024	1.6	0.84	< 0.20	46	1.5	Woodlawn Ave ROW south side
IW16	NA	NA	NA	NA	Decreasing	10/23/2024	0.52	0.42	< 0.20	2.80	2.3	Woodlawn Ave ROW proximal to former solvent tanks
IW21	NA	NA	NA	NA	Decreasing	10/23/2024	0.23	< 0.20	< 0.20	1.5	7.0	Woodlawn Ave ROW adjacent to former solvent tanks
IW31	NA	NA	NA	NA	Increasing	10/24/2024	< 0.20	< 0.20	< 0.20	5.6	0.53	Woodlawn Ave ROW downgradient of source area
IW33	NA	NA	NA	Undetermined	Increasing	10/24/2024	0.63	0.56	0.80	74	15	Woodlawn Ave ROW downgradient of source area
IW55	NA	NA	NA	NA	Stable	10/23/2024	< 0.20	< 0.20	< 0.20	0.92	0.89	In parking garage of east development
IW59	NA	NA	NA	NA	Increasing	10/23/2024	< 0.20	< 0.20	< 0.20	7.7	18	In parking garage of east development
IW61	NA	NA	NA	Increasing	Increasing	10/23/2024	< 0.20	< 0.20	< 0.20	33.0	67	In parking garage of east development
Deep Zone							Deep Zone					Deep Zone
MW09	Increasing	NA	NA	Decreasing	NA	10/28/2024	380	3.7	< 2.0	16	<0.20	Southwest Corner of Janke building
MW10	Undetermined	Increasing	NA	Stable	Decreasing	10/28/2024	110	76	< 0.80	190	0.86	Southeast Corner of Janke building
MW31	Decreasing	Decreasing	NA	Stable	Increasing	10/28/2024	< 50	< 50	60	8,700	2,100	4th Ave West of Janke building
IW15	NA	NA	NA	Increasing	Decreasing	10/29/2024	1.1	1.9	< 0.40	47	5.6	Southside of Woodlawn Ave in front of east development
IW22	NA	NA	NA	NA	Stable	10/24/2024	< 0.20	< 0.20	< 0.20	6.2	4.9	Woodlawn Ave ROW adjacent to former solvent tanks
IW32	Stable	Decreasing	NA	Increasing	Increasing	10/24/2024	< 20	< 20	< 20	2,900	1,300	North side of Woodlawn in front of Janke building
IW34	Decreasing	Decreasing	Increasing	Stable	Increasing	10/24/2024	< 100	< 100	340	16,000	4,400	North side of Woodlawn in front of Janke building

NOTES:

Red indicates the concentration exceeds the cleanup level and or the laboratory detection limit exceed the cleanup level.

NA indicates that the concentration of analyte not detected above the laboratory reporting limit or the concentration was less than the groundwater cleanup level in fourth quarter of 2024

Undetermined = Insufficient evidence to identify a significant trend at the specified level of significance

ug/L = micrograms per liter

Ave = Avenue

cis-1,2-DCE = cis-1,2-dichloroethene

PCE = tetrachloroethene

ROW = right-of-way

TCE = trichloroethene

trans-1,2-DCE = trans-1,2-dichloroethene

VC = vinyl chloride



Table 7
Summary of Indoor Air Analytical Results
Plastic Sales and Service Site (Janke Building)
6870 Woodlawn Avenue Northeast
Seattle, Washington

Sample Location ID	Sample ID	Location	Sampled by	Sample Type	Sample Date	Analytical Results ⁽¹⁾ (µg/m ³)				
						PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
IA01	IA01-20231204	Northeastern portion of Janke building	SoundEarth	Indoor Air	12/04/23	<6.8	0.22	<0.4	<0.4	<0.26
	12/17/24				<6.8	<0.11	<0.4	<0.4	<0.26	
IA02	IA02-20231204	Southeastern corner of Janke building		Indoor Air	12/04/23	<6.8	0.25	<0.4	<0.4	<0.26
	12/27/24				<6.8	<0.11	<0.4	<0.4	<0.26	
IA03	IA03-20231204	Southern portion of Janke building		Indoor Air	12/04/23	<6.8	0.25	<0.4	<0.4	<0.26
	IA03-20241217				12/17/24	<6.8	<0.11	<0.4	<0.4	<0.26
IA04	IA04-20241217	Southwestern portion of Janke building		Indoor Air	12/17/24	<6.8	<0.11	<0.4	<0.4	<0.26
IA05	IA05-20241217	Central portion of Janke building		Indoor Air	12/17/24	<6.8	<0.11	<0.4	<0.4	<0.26
OA01	OA01-20231204	Southeastern corner of Janke building roof		Outdoor Air	12/04/23	<6.8	<0.11	<0.4	<0.4	<0.26
	OA01-20241217				12/17/24	<6.8	<0.11	<0.4	<0.4	<0.26
MTCA Indoor Air Screening Levels for Commercial Workers						44.9 ⁽²⁾	2.85 ⁽²⁾	156 ⁽³⁾	156 ⁽³⁾	1.33 ⁽²⁾

NOTES:

Chemical analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

⁽¹⁾ Analyzed by EPA Method TO-15.

⁽²⁾ Vapor Intrusion Screening Level for Commercial Worker, Indoor Air Screening Level, Cancer, CLARC database, CLARC Website
 <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽³⁾ Vapor Intrusion Screening Level for Commercial Worker, Indoor Air Screening Level, Noncancer, CLARC database, CLARC Website
 <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

µg/m³ = microgram per cubic meter

< = concentration not detected above the laboratory reporting limit

CLARC = Cleanup Levels and Risk Calculations

DCE = dichloroethene

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethylene

SoundEarth = SoundEarth Strategies, Inc.

TCE = trichloroethene



Table 8
Summary of Sub-Slab Soil Gas Analytical Results
Plastic Sales and Service Site (Janke Building)
6870 Woodlawn Avenue Northeast
Seattle, Washington

Sample Location ID	Sample ID	Location	Sampled By	Sample Date	Analytical Results ⁽¹⁾ (µg/m ³)				
					PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
SS01	SS01-20231204	Janke building - southeastern crawl space hatch	SoundEarth	12/04/23	<37	<0.59	<2.2	<2.2	<1.4
	SS01-20241217			12/17/24	<59	<0.94	<3.4	<3.4	<2.2
SS02	SS02-20231204	Janke building - southern crawl space hatch		12/04/23	<37	<0.59	<2.2	<2.2	<1.4
	SS02-20241217			12/17/24	<61	<0.97	<3.6	<3.6	<2.3
MTCA Sub-Slab Soil Gas Screening Levels for Commercial Workers					1,500 ⁽²⁾	95 ⁽²⁾	5,200 ⁽³⁾	5,200 ⁽³⁾	44 ⁽²⁾

NOTES:

Chemical analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

⁽¹⁾Analyzed by EPA Method TO-15.

⁽²⁾Vapor Intrusion Screening Level for Commercial Worker, Soil Gas Screening Level, Cancer, CLARC database, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽³⁾Vapor Intrusion Screening Level for Commercial Worker, Soil Gas Screening Level, Noncancer, CLARC database, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

µg/m³ = microgram per cubic meter

< = concentration not detected above the laboratory reporting limit

CLARC = Cleanup Levels and Risk Calculations

DCE = dichloroethene

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethene

SoundEarth = SoundEarth Strategies, Inc.

TCE = trichloroethene

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

Second Quarter 2024 Groundwater



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

May 20, 2024

Tom Cammarata
Sound Earth Strategies
1011 SW Klickitat Way, Suite 212
Seattle, WA 98134

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2404-200

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on April 15, 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,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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: May 20, 2024
Samples Submitted: April 15, 2024
Laboratory Reference: 2404-200
Project: 0651-002

Case Narrative

Samples were collected on April 15, 2024 and received by the laboratory on April 15, 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.

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 reanalysis of sample MW06-20240415 after the holding time 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.



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW06-20240415						
Laboratory ID:	04-200-01					
Vinyl Chloride	32	0.40	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	0.49	0.40	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	40	0.40	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	6.9	0.40	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	2.1	0.40	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				
Client ID: MW27-20240415						
Laboratory ID:	04-200-02					
Vinyl Chloride	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				
Client ID: MW15-20240415						
Laboratory ID:	04-200-05					
Vinyl Chloride (SIM)	1.6	0.20	EPA 8260D/SIM	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	13	2.0	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	2.0	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	ND	2.0	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW99-20240415						
Laboratory ID: 04-200-07						
Vinyl Chloride	72	0.40	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	0.49	0.40	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	42	0.40	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	5.5	0.40	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	1.9	0.40	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				

Client ID: MW36-20240415						
Laboratory ID: 04-200-08						
Vinyl Chloride	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

**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:	MB0416W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	103	75-127				
<i>Toluene-d8</i>	102	80-127				
<i>4-Bromofluorobenzene</i>	97	78-125				

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery		Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB0416W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	11.8	11.3	10.0	10.0	118	113	71-135	4	20	
(trans) 1,2-Dichloroethene	11.6	11.3	10.0	10.0	116	113	80-125	3	17	
(cis) 1,2-Dichloroethene	11.6	11.4	10.0	10.0	116	114	80-129	2	17	
Trichloroethene	10.8	10.7	10.0	10.0	108	107	80-122	1	18	
Tetrachloroethene	10.3	10.1	10.0	10.0	103	101	80-124	2	18	
Surrogate:										
Dibromofluoromethane					104	107	75-127			
Toluene-d8					102	103	80-127			
4-Bromofluorobenzene					103	103	78-125			



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

**DISSOLVED GASES
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW06-20240415					
Laboratory ID:	04-200-01					
Methane	6000	55	RSK 175	4-18-24	4-18-24	
Ethane	ND	0.56	RSK 175	4-18-24	4-18-24	
Ethene	94	0.58	RSK 175	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>109</i>	<i>50-150</i>				

Client ID:	MW11-20240415					
Laboratory ID:	04-200-03					
Methane	ND	0.55	RSK 175	4-18-24	4-18-24	
Ethane	ND	0.56	RSK 175	4-18-24	4-18-24	
Ethene	ND	0.58	RSK 175	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>119</i>	<i>50-150</i>				

Client ID:	MW13-20240415					
Laboratory ID:	04-200-04					
Methane	ND	0.55	RSK 175	4-18-24	4-18-24	
Ethane	ND	0.56	RSK 175	4-18-24	4-18-24	
Ethene	ND	0.58	RSK 175	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>111</i>	<i>50-150</i>				

Client ID:	MW15-20240415					
Laboratory ID:	04-200-05					
Methane	5800	55	RSK 175	4-18-24	4-18-24	
Ethane	ND	0.56	RSK 175	4-18-24	4-18-24	
Ethene	ND	0.58	RSK 175	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>70</i>	<i>50-150</i>				

Client ID:	MW19-20240415					
Laboratory ID:	04-200-06					
Methane	ND	0.55	RSK 175	4-18-24	4-18-24	
Ethane	ND	0.56	RSK 175	4-18-24	4-18-24	
Ethene	ND	0.58	RSK 175	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>130</i>	<i>50-150</i>				



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

**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:	MB0418W1					
Methane	ND	0.55	RSK 175	4-18-24	4-18-24	
Ethane	ND	0.56	RSK 175	4-18-24	4-18-24	
Ethene	ND	0.58	RSK 175	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	127	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0418W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	48.6	47.4	44.2	44.2	110	107	75-125	3	25	
Ethane	91.1	88.2	83.2	83.2	109	106	75-125	3	25	
Ethene	85.7	80.3	77.7	77.7	110	103	75-125	7	25	
Surrogate:										
1-Butene					110	101	50-150			



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW06-20240415					
Laboratory ID:	04-200-01					
Sulfate	ND	5.0	ASTM D516-11	4-22-24	4-22-24	

Client ID:	MW11-20240415					
Laboratory ID:	04-200-03					
Sulfate	36	10	ASTM D516-11	4-22-24	4-22-24	

Client ID:	MW13-20240415					
Laboratory ID:	04-200-04					
Sulfate	35	10	ASTM D516-11	4-22-24	4-22-24	

Client ID:	MW15-20240415					
Laboratory ID:	04-200-05					
Sulfate	ND	5.0	ASTM D516-11	4-22-24	4-22-24	

Client ID:	MW19-20240415					
Laboratory ID:	04-200-06					
Sulfate	31	10	ASTM D516-11	4-22-24	4-22-24	



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water

Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Sulfate	ND	5.0	ASTM D516-11	4-22-24	4-22-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-199-01							
	ORIG	DUP						
Sulfate	8.38	8.43	NA	NA	NA	NA	1	10

MATRIX SPIKE

Laboratory ID:	04-199-01							
	MS	MS		MS				
Sulfate	18.1	10.0	8.38	97	73-127	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0422W1							
	SB	SB		SB				
Sulfate	9.48	10.0	NA	95	85-114	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW06-20240415					
Laboratory ID:	04-200-01					
Chloride	69	2.0	SM 4500-Cl E	4-22-24	4-22-24	

Client ID:	MW11-20240415					
Laboratory ID:	04-200-03					
Chloride	7.2	2.0	SM 4500-Cl E	4-22-24	4-22-24	

Client ID:	MW13-20240415					
Laboratory ID:	04-200-04					
Chloride	7.6	2.0	SM 4500-Cl E	4-22-24	4-22-24	

Client ID:	MW15-20240415					
Laboratory ID:	04-200-05					
Chloride	120	4.0	SM 4500-Cl E	4-22-24	4-22-24	

Client ID:	MW19-20240415					
Laboratory ID:	04-200-06					
Chloride	52	2.0	SM 4500-Cl E	4-22-24	4-22-24	



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

**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:	MB0422W1					
Chloride	ND	2.0	SM 4500-Cl E	4-22-24	4-22-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-200-01							
	ORIG	DUP						
Chloride	68.6	68.3	NA	NA	NA	NA	0	12

MATRIX SPIKE

Laboratory ID:	04-200-01							
	MS	MS		MS				
Chloride	163	100	68.6	94	83-120	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0422W1							
	SB	SB		SB				
Chloride	46.8	50.0	NA	94	83-119	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW06-20240415					
Laboratory ID:	04-200-01					
Nitrate	0.062	0.050	EPA 353.2	4-10-24	4-10-24	

Client ID:	MW11-20240415					
Laboratory ID:	04-200-03					
Nitrate	0.19	0.050	EPA 353.2	4-10-24	4-10-24	

Client ID:	MW13-20240415					
Laboratory ID:	04-200-04					
Nitrate	0.069	0.050	EPA 353.2	4-10-24	4-10-24	

Client ID:	MW15-20240415					
Laboratory ID:	04-200-05					
Nitrate	ND	0.050	EPA 353.2	4-10-24	4-10-24	

Client ID:	MW19-20240415					
Laboratory ID:	04-200-06					
Nitrate	0.18	0.050	EPA 353.2	4-10-24	4-10-24	



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

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:	MB0416W1					
Nitrate	ND	0.050	EPA 353.2	4-10-24	4-10-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-200-01							
	ORIG	DUP						
Nitrate	0.0620	0.0606	NA	NA	NA	NA	2	19

MATRIX SPIKE								
Laboratory ID:	04-200-01							
	MS	MS		MS				
Nitrate	2.03	2.00	0.0620	98	85-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0416W1							
	SB	SB		SB				
Nitrate	2.20	2.00	NA	110	87-118	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW06-20240415					
Laboratory ID:	04-200-01					
Total Organic Carbon	81	1.0	SM 5310B	4-23-24	4-23-24	

Client ID:	MW11-20240415					
Laboratory ID:	04-200-03					
Total Organic Carbon	5.3	1.0	SM 5310B	4-23-24	4-23-24	

Client ID:	MW13-20240415					
Laboratory ID:	04-200-04					
Total Organic Carbon	ND	1.0	SM 5310B	4-23-24	4-23-24	

Client ID:	MW15-20240415					
Laboratory ID:	04-200-05					
Total Organic Carbon	1300	20	SM 5310B	4-23-24	4-23-24	

Client ID:	MW19-20240415					
Laboratory ID:	04-200-06					
Total Organic Carbon	3.6	1.0	SM 5310B	4-23-24	4-23-24	



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

**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:	MB0423W1					
Total Organic Carbon	ND	1.0	SM 5310B	4-23-24	4-23-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-200-01							
	ORIG	DUP						
Total Organic Carbon	81.2	81.3	NA	NA	NA	0	13	

MATRIX SPIKE

Laboratory ID:	04-200-01							
	MS	MS		MS				
Total Organic Carbon	93.9	10.0	81.2	127	86-127	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0423W1							
	SB	SB		SB				
Total Organic Carbon	12.1	10.0	NA	121	90-122	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

**TOTAL METALS
 EPA 6010D**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW06-20240415						
Laboratory ID: 04-200-01						
Iron	1700	50	EPA 6010D	4-18-24	4-18-24	
Manganese	1000	10	EPA 6010D	4-18-24	4-18-24	

Client ID: MW11-20240415						
Laboratory ID: 04-200-03						
Iron	830	50	EPA 6010D	4-18-24	4-18-24	
Manganese	300	10	EPA 6010D	4-18-24	4-18-24	

Client ID: MW13-20240415						
Laboratory ID: 04-200-04						
Iron	74	50	EPA 6010D	4-18-24	4-18-24	
Manganese	42	10	EPA 6010D	4-18-24	4-18-24	

Client ID: MW15-20240415						
Laboratory ID: 04-200-05						
Iron	160000	500	EPA 6010D	4-18-24	4-18-24	
Manganese	1500	10	EPA 6010D	4-18-24	4-18-24	

Client ID: MW19-20240415						
Laboratory ID: 04-200-06						
Iron	240	50	EPA 6010D	4-18-24	4-18-24	
Manganese	360	10	EPA 6010D	4-18-24	4-18-24	



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

**TOTAL METALS
 EPA 6010D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0418WH1					
Iron	ND	50	EPA 6010D	4-18-24	4-18-24	
Manganese	ND	10	EPA 6010D	4-18-24	4-18-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-191-03							
	ORIG	DUP						
Iron	1850	1960	NA	NA	NA	NA	6	20
Manganese	43.4	46.1	NA	NA	NA	NA	6	20

MATRIX SPIKES

Laboratory ID:	04-191-03									
	MS	MSD	MS	MSD		MS	MSD			
Iron	23300	23000	20000	20000	1850	107	106	75-125	1	20
Manganese	560	555	500	500	43.4	103	102	75-125	1	20



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

**VOLATILE ORGANICS EPA 8260D/SIM
 (Re-Analysis)**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW06-20240415					
Laboratory ID:	04-200-01					
Vinyl Chloride	53	0.40	EPA 8260D	4-30-24	4-30-24	
(trans) 1,2-Dichloroethene	0.53	0.40	EPA 8260D	4-30-24	4-30-24	
(cis) 1,2-Dichloroethene	50	0.40	EPA 8260D	4-30-24	4-30-24	
Trichloroethene	8.5	0.40	EPA 8260D	4-30-24	4-30-24	
Tetrachloroethene	2.8	0.40	EPA 8260D	4-30-24	4-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: May 20, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-200
 Project: 0651-002

**VOLATILE ORGANICS EPA 8260D/SIM
 (Re-Analysis)
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0430W1					
Vinyl Chloride	ND	0.20	EPA 8260D	4-30-24	4-30-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-30-24	4-30-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-30-24	4-30-24	
Trichloroethene	ND	0.20	EPA 8260D	4-30-24	4-30-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-30-24	4-30-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	75-127				
Toluene-d8	100	80-127				
4-Bromofluorobenzene	99	78-125				

Analyte	Result		Spike Level		Percent		Recovery	RPD	RPD	Flags
					Recovery		Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB0430W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	11.3	11.1	10.0	10.0	113	111	71-135	2	20	
(trans) 1,2-Dichloroethene	10.6	10.6	10.0	10.0	106	106	80-125	0	17	
(cis) 1,2-Dichloroethene	10.9	10.6	10.0	10.0	109	106	80-129	3	17	
Trichloroethene	10.6	10.3	10.0	10.0	106	103	80-122	3	18	
Tetrachloroethene	11.2	11.3	10.0	10.0	112	113	80-124	1	18	
Surrogate:										
Dibromofluoromethane					103	102	75-127			
Toluene-d8					100	101	80-127			
4-Bromofluorobenzene					102	101	78-125			





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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info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: The Hearthstone

Work Order Number: 2404266

April 22, 2024

Attention David Baumeister:

Fremont Analytical, Inc, an Alliance Technical Group company, received 5 sample(s) on 4/15/2024 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

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CLIENT: OnSite Environmental Inc
Project: The Hearthstone
Work Order: 2404266

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2404266-001	MW06-20240415	04/15/2024 10:30 AM	04/15/2024 4:03 PM
2404266-002	MW11-20240415	04/15/2024 9:50 AM	04/15/2024 4:03 PM
2404266-003	MW13-20240415	04/15/2024 11:15 AM	04/15/2024 4:03 PM
2404266-004	MW15-20240415	04/15/2024 12:25 PM	04/15/2024 4:03 PM
2404266-005	MW19-20240415	04/15/2024 2:30 PM	04/15/2024 4:03 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: The Hearthstone

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

Work Order: **2404266**
Date Reported: **4/22/2024**

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2404266-001

Client Sample ID: MW06-20240415

Collection Date: 4/15/2024 10:30:00 AM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B

Batch ID: R91000 Analyst: FG

Ferrous Iron	2.53	0.750	D	mg/L	5	4/16/2024 9:11:29 AM
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Lab ID: 2404266-002

Client Sample ID: MW11-20240415

Collection Date: 4/15/2024 9:50:00 AM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B

Batch ID: R91000 Analyst: FG

Ferrous Iron	ND	0.150		mg/L	1	4/16/2024 9:11:29 AM
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Lab ID: 2404266-003

Client Sample ID: MW13-20240415

Collection Date: 4/15/2024 11:15:00 AM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B

Batch ID: R91000 Analyst: FG

Ferrous Iron	ND	0.150		mg/L	1	4/16/2024 9:11:29 AM
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Lab ID: 2404266-004

Client Sample ID: MW15-20240415

Collection Date: 4/15/2024 12:25:00 PM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B

Batch ID: R91000 Analyst: FG

Ferrous Iron	143	37.5	D	mg/L	250	4/16/2024 9:11:29 AM
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Analytical Report

Work Order: 2404266
Date Reported: 4/22/2024

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2404266-005 Collection Date: 4/15/2024 2:30:00 PM
Client Sample ID: MW19-20240415 Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R91000 Analyst: FG		
Ferrous Iron	ND	0.150		mg/L	1	4/16/2024 9:11:29 AM

Work Order: 2404266
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R91000	SampType: MBLK	Units: mg/L		Prep Date: 4/16/2024	RunNo: 91000						
Client ID: MBLKW	Batch ID: R91000			Analysis Date: 4/16/2024	SeqNo: 1897356						
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-R91000	SampType: LCS	Units: mg/L		Prep Date: 4/16/2024	RunNo: 91000						
Client ID: LCSW	Batch ID: R91000			Analysis Date: 4/16/2024	SeqNo: 1897357						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.375	0.150	0.4000	0	93.8	85	115				

Sample ID: 2404266-001ADUP	SampType: DUP	Units: mg/L		Prep Date: 4/16/2024	RunNo: 91000						
Client ID: MW06-20240415	Batch ID: R91000			Analysis Date: 4/16/2024	SeqNo: 1897359						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	2.51	0.750						2.534	1.07	20	D

Sample ID: 2404266-001AMS	SampType: MS	Units: mg/L		Prep Date: 4/16/2024	RunNo: 91000						
Client ID: MW06-20240415	Batch ID: R91000			Analysis Date: 4/16/2024	SeqNo: 1897360						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	4.43	0.750	2.000	2.534	94.6	70	130				D

Sample ID: 2404266-001AMSD	SampType: MSD	Units: mg/L		Prep Date: 4/16/2024	RunNo: 91000						
Client ID: MW06-20240415	Batch ID: R91000			Analysis Date: 4/16/2024	SeqNo: 1897361						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	4.45	0.750	2.000	2.534	96.0	70	130	4.427	0.605	30	D

Sample Log-In Check List

Client Name: ONSITE

Work Order Number: 2404266

Logged by: Morgan Wilson

Date Received: 4/15/2024 4:03:00 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 °C
Sample	5.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Onsite Environmental Inc.

Analytical Laboratory Testing Services
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Phone: (425) 883-3981 • www.onsite-env.com

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Chain of Custody

Page 1 of 1

Company: Sound Earth Strategies On Site		Turnaround Request (in working days)		Laboratory Number: 2404266										
Project Number: 0651-002		☐ Same Day ☐ 1 Day												
Project Name: The Hearthstone		☐ 2 Days ☐ 3 Days												
Project Manager: David Benwick		☒ Standard (7 Days)												
Sampled by: Linnea Coleman		☐ (other)												
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers									
	MW06-20240415	4/5/24	1030	1420	CVOCs									
	MW11-20240415		0950		Dissolved Gases (Methane, Ethane, Ethene) by RSK-175									
	MW13-20240415		1115		Sulfate, Chloride, Nitrate									
	MW15-20240415		1225		TOC by SM 310B									
	MW19-20240415		1430		Total Mn and Total Fe by EPA 200.8									
					Volatile Organic Fatty Acids									
					Ferrous Iron									
					Organophosphorus Pesticides 8270/SiM									
					Chlorinated Acid Herbicides 8151									
					Total RCRA Metals									
					Total MTCA Metals									
					TCLP Metals									
					HEM (oil and grease) 1664									
					% Moisture									
Relinquished	Signature	Company	Date	Time	Comments/Special Instructions									
Received		Sound Earth	4/15/24	242	Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC									
Relinquished			4/15/24		Analyze samples at the lowest dilution possible.									
Received		The Hearthstone	4/15/24	1605	Send lab reports to David Benwick David Benwick On Site									
Relinquished					Data Package: Standard ☐ Level III ☐ Level IV ☐									
Received					Chromatograms with final report ☐ Electronic Data Delivery (EDS) ☐									
Reviewed/Date		Reviewed/Date												

Analytical Results

SiREM File Reference: S-10384

Client: OnSite Environmental Inc.
Client Project Number: 0651-002 Lab Ref. 04-200
Date Samples Received: April 18, 2024
Date Samples Analyzed: April 24, 2024

Client Sample ID	SiREM Reference ID	Client Sample Date	Sample Dilution Factor	Lactate	Acetate	Propionate	Formate	Butyrate	Pryuvate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW06-20240415	24-17410	15-Apr-24	1,000x	31 J	266	<5.3	<5.0	15 J	<15
MW11-20240415	24-17411	15-Apr-24	50x	1.6 J	1.0 J	<0.26	1.2 J	<0.06	<0.75
MW13-20240415	24-17412	15-Apr-24	50x	<0.50	0.87	<0.26	<0.25	<0.06	<0.75
MW15-20240415	24-17413	15-Apr-24	1,000x	<10	532	478	23 J	233	<15
MW19-20240415	24-17414	15-Apr-24	50x	1.6 J	1.0 J	<0.26	1.0 J	<0.06	<0.75

QL	50	0.50	0.30	0.26	0.25	0.06	0.75
	1,000	10	5.9	5.3	5.0	1.2	15
RL	50	2.0	2.0	2.0	2.0	2.0	2.0
	1,000	40	40	40	40	40	40

Comments:

Method: Ion Chromatography with Electrical Conductivity Detection
J = the associated value is an estimated result between the QL and the RL
QL = Quantitation Limit
RL = Reporting Limit
mg/L = milligram per liter
< = compound analyzed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst:

Brooke Rapien

Brooke Rapien, B.Sc.
Laboratory Technician II

Results approved:

Kela Ashworth

Kela Ashworth, B.Sc.
Scientist

Date:

20-May-24



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Laboratory: SiREM Laboratory

Attention: Ximena Druan

Address: 180A Market Place Blvd.

Address: Knoxville, TN 37922

Phone Number: (865) 330-0037

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Laboratory Reference #: 04-200

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name: _____

S-10384
Page 1 of 1

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW06-20240415	4/15/24	10:30	W	3	Volatile Organic Fatty Acids <i>REC'd 2.8°C (KX00216)</i>
	MW11-20240415	4/15/24	9:50	W	3	Volatile Organic Fatty Acids <i>blue ice - UPS</i>
	MW13-20240415	4/15/24	11:15	W	3	Volatile Organic Fatty Acids
	MW15-20240415	4/15/24	12:25	W	3	Volatile Organic Fatty Acids
	MW19-20240415	4/15/24	14:30	W	3	Volatile Organic Fatty Acids
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by: <i>[Signature]</i>		<i>OSE</i>		<i>4/17/24</i>	<i>1600</i>	EIM
Received by:		<i>UPS</i>				
Relinquished by:		<i>UPS</i>				
Received by: <i>[Signature]</i>		<i>SiREM</i>		<i>4-18-24</i>	<i>1018</i>	
Relinquished by:						
Received by:						



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Laboratory: SIREM Laboratory

Attention: Ximena Druan

Address: 180A Market Place Blvd.

Address: Knoxville, TN 37922

Phone Number: (865) 330-0037

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Laboratory Reference #: 04-200

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name: _____

S-10384
Page 1 of 1

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
✓	MW06-20240415	4/15/24	10:30	W	8 1	Volatile Organic Fatty Acids REC'd 2.8°C (KX00216)
✓	MW11-20240415	4/15/24	9:50	W	3	Volatile Organic Fatty Acids blue ice - UPS
✓	MW13-20240415	4/15/24	11:15	W	3	Volatile Organic Fatty Acids
✓	MW15-20240415	4/15/24	12:25	W	3	Volatile Organic Fatty Acids
✓	MW19-20240415	4/15/24	14:30	W	3	Volatile Organic Fatty Acids
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by:		QXE		4/17/24	1600	EIM
Received by:		UPS				
Relinquished by:		UPS				
Received by:		SIREM		4-18-24	1018	
Relinquished by:		SIREM		4-22-24	1600	
Received by:		SIREM		4-23-24	1:10pm	



Mr. Onsite
Environmental Inc.

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Chain of Custody

Company: **SoundEarth Strategies**

Project Number: **0651-002**

Project Name: **The Hearthstone**

Project Manager: **Tom Cammarata**

Sampled by: **Linnea Coleman**

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Laboratory Number: **04-200**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW06-20240415	4/15/24	1030	H2O	12
2	MW27-20240415		0940		3
3	MW11-20240415		0950		9
4	MW13-20240415		1115		9
5	MW15-20240415		1225		12
6	MW19-20240415		1430		9
7	MW99-20240415		1200		3
8	MW36-20240415		1350		3

CVOCs	
Dissolved Gases (Methane, Ethane, Ethene) by RSK-175	
Sulfate, Chloride, Nitrate	
TOC by SM 310B	
Total Mn and Total Fe by EPA 200.8	
Volatile Organic Fatty Acids	
Ferrous Iron *	
Organophosphorus Pesticides 8270/SIM	
Chlorinated Acid Herbicides 8151	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<i>Linnea Coleman</i>	Sound Earth	4/15/24	3:42	Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC
<i>#17</i>	Goodly Alpha	4/15/24	3:42	Analyze samples at the lowest dilution possible.
<i>#17</i>	Goodly Alpha	4/15/24	4:50	* = Samples delivered directly to Forward Analytical
<i>[Signature]</i>	<i>[Signature]</i>	4/15/24	1650	Send lab reports to Tom & Linnea
				Data Package: Standard ☐ Level III ☐ Level IV ☐
				Chromatograms with final report ☐ Electronic Data Deliver ☐ (EDDs) ☐

Sample/Cooler Receipt and Acceptance Checklist

Client: SES

Client Project Name/Number: 0651-002

OnSite Project Number: 04-200

Initiated by: AMV

Date Initiated: 4/15/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	☒ No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	☒ N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	☒ N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	☒ Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	☒ Yes	No	N/A	Temperature: <u>6</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	☒ N/A					
1.7 How were the samples delivered?	Client	☒ Courier	UPS/FedEx	OSE Pickup		Other	

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	☒ Yes	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	☒ Yes	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	☒ Yes	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	☒ No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	☒ Yes	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	☒ No	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	☒ No	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	☒ No	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	☒ Yes	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	☒ Yes	No	N/A	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	☒ No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	☒ Yes	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	☒ Yes	No	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	☒ N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		☒ N/A	1	2	3	4

Explain any discrepancies:

2.4) #8) 1530 on labels
3.5) #5) 1 vial w/bubble
3.7) 1 run will expire < 24 hrs

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed



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April 18, 2024

Tom Cammarata
Sound Earth Strategies
1011 SW Klickitat Way, Suite 212
Seattle, WA 98134

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2404-201

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on April 15, 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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

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 18, 2024
Samples Submitted: April 15, 2024
Laboratory Reference: 2404-201
Project: 0651-002

Case Narrative

Samples were collected on April 12 and 15, 2024 and received by the laboratory on April 15, 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.

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.



Date of Report: April 18, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-201
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW07-20240412						
Laboratory ID: 04-201-01						
Vinyl Chloride	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	1.3	0.20	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	103	75-127				
<i>Toluene-d8</i>	102	80-127				
<i>4-Bromofluorobenzene</i>	99	78-125				

Client ID: IW08-20240412						
Laboratory ID: 04-201-02						
Vinyl Chloride	2.0	0.40	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	57	0.40	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	0.99	0.40	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	1.6	0.40	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	102	75-127				
<i>Toluene-d8</i>	102	80-127				
<i>4-Bromofluorobenzene</i>	98	78-125				

Client ID: IW15-20240412						
Laboratory ID: 04-201-03						
Vinyl Chloride	4.5	0.80	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	45	0.80	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	1.3	0.80	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	1.1	0.80	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	101	75-127				
<i>Toluene-d8</i>	101	80-127				
<i>4-Bromofluorobenzene</i>	96	78-125				



Date of Report: April 18, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-201
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW16-20240412						
Laboratory ID: 04-201-04						
Vinyl Chloride	3.3	0.20	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	0.95	0.20	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	0.25	0.20	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	0.47	0.20	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				

Client ID: IW21-20240412						
Laboratory ID: 04-201-05						
Vinyl Chloride	62	1.0	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	2.7	1.0	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	1.0	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	ND	1.0	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				

Client ID: IW22-20240412						
Laboratory ID: 04-201-06						
Vinyl Chloride	12	0.20	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	4.0	0.20	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: April 18, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-201
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW29-20240412						
Laboratory ID: 04-201-07						
Vinyl Chloride	0.71	0.20	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	15	0.20	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	0.21	0.20	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				

Client ID: IW30-20240412						
Laboratory ID: 04-201-08						
Vinyl Chloride	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				

Client ID: IW31-20240415						
Laboratory ID: 04-201-09						
Vinyl Chloride	1.9	0.20	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	3.1	0.20	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: April 18, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-201
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW32-20240415						
Laboratory ID: 04-201-10						
Vinyl Chloride	73	2.0	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	110	2.0	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	2.0	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	ND	2.0	EPA 8260D	4-16-24	4-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				

Client ID: IW33-20240415						
Laboratory ID: 04-201-11						
Vinyl Chloride	73	1.0	EPA 8260D	4-17-24	4-17-24	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	4-17-24	4-17-24	
(cis) 1,2-Dichloroethene	91	1.0	EPA 8260D	4-17-24	4-17-24	
Trichloroethene	ND	1.0	EPA 8260D	4-17-24	4-17-24	
Tetrachloroethene	1.2	1.0	EPA 8260D	4-17-24	4-17-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				

Client ID: IW34-20240415						
Laboratory ID: 04-201-12						
Vinyl Chloride	3800	30	EPA 8260D	4-17-24	4-17-24	
(trans) 1,2-Dichloroethene	84	30	EPA 8260D	4-17-24	4-17-24	
(cis) 1,2-Dichloroethene	2600	30	EPA 8260D	4-17-24	4-17-24	
Trichloroethene	ND	30	EPA 8260D	4-17-24	4-17-24	
Tetrachloroethene	ND	30	EPA 8260D	4-17-24	4-17-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: April 18, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-201
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW36-20240415						
Laboratory ID: 04-201-13						
Vinyl Chloride	130	2.0	EPA 8260D	4-17-24	4-17-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	4-17-24	4-17-24	
(cis) 1,2-Dichloroethene	73	2.0	EPA 8260D	4-17-24	4-17-24	
Trichloroethene	ND	2.0	EPA 8260D	4-17-24	4-17-24	
Tetrachloroethene	ND	2.0	EPA 8260D	4-17-24	4-17-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				

Client ID: IW38-20240415						
Laboratory ID: 04-201-14						
Vinyl Chloride	2.4	0.40	EPA 8260D	4-17-24	4-17-24	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	4-17-24	4-17-24	
(cis) 1,2-Dichloroethene	57	0.40	EPA 8260D	4-17-24	4-17-24	
Trichloroethene	ND	0.40	EPA 8260D	4-17-24	4-17-24	
Tetrachloroethene	ND	0.40	EPA 8260D	4-17-24	4-17-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				

Client ID: IW55-20240412						
Laboratory ID: 04-201-15						
Vinyl Chloride	0.86	0.20	EPA 8260D	4-17-24	4-17-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
(cis) 1,2-Dichloroethene	1.5	0.20	EPA 8260D	4-17-24	4-17-24	
Trichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: April 18, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-201
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW57-20240412						
Laboratory ID: 04-201-16						
Vinyl Chloride	0.42	0.20	EPA 8260D	4-17-24	4-17-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
Trichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				

Client ID: IW59-20240412						
Laboratory ID: 04-201-17						
Vinyl Chloride	14	0.20	EPA 8260D	4-17-24	4-17-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
(cis) 1,2-Dichloroethene	0.40	0.20	EPA 8260D	4-17-24	4-17-24	
Trichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				

Client ID: IW60-20240412						
Laboratory ID: 04-201-18						
Vinyl Chloride	ND	0.20	EPA 8260D	4-17-24	4-17-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
Trichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: April 18, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-201
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW61-20240412						
Laboratory ID: 04-201-19						
Vinyl Chloride	36	0.40	EPA 8260D	4-17-24	4-17-24	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	4-17-24	4-17-24	
(cis) 1,2-Dichloroethene	2.9	0.40	EPA 8260D	4-17-24	4-17-24	
Trichloroethene	ND	0.40	EPA 8260D	4-17-24	4-17-24	
Tetrachloroethene	ND	0.40	EPA 8260D	4-17-24	4-17-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: April 18, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-201
 Project: 0651-002

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0416W1					
Vinyl Chloride	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Trichloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-16-24	4-16-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	103	75-127				
Toluene-d8	102	80-127				
4-Bromofluorobenzene	97	78-125				
Laboratory ID:	MB0417W1					
Vinyl Chloride	ND	0.20	EPA 8260D	4-17-24	4-17-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
Trichloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-17-24	4-17-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	75-127				
Toluene-d8	101	80-127				
4-Bromofluorobenzene	97	78-125				



Date of Report: April 18, 2024
 Samples Submitted: April 15, 2024
 Laboratory Reference: 2404-201
 Project: 0651-002

**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:	SB0416W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	11.8	11.3	10.0	10.0	118	113	71-135	4	20	
(trans) 1,2-Dichloroethene	11.6	11.3	10.0	10.0	116	113	80-125	3	17	
(cis) 1,2-Dichloroethene	11.6	11.4	10.0	10.0	116	114	80-129	2	17	
Trichloroethene	10.8	10.7	10.0	10.0	108	107	80-122	1	18	
Tetrachloroethene	10.3	10.1	10.0	10.0	103	101	80-124	2	18	
Surrogate:										
Dibromofluoromethane					104	107	75-127			
Toluene-d8					102	103	80-127			
4-Bromofluorobenzene					103	103	78-125			
Laboratory ID:	SB0417W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	9.46	9.48	10.0	10.0	95	95	71-135	0	20	
(trans) 1,2-Dichloroethene	10.9	10.6	10.0	10.0	109	106	80-125	3	17	
(cis) 1,2-Dichloroethene	10.9	10.7	10.0	10.0	109	107	80-129	2	17	
Trichloroethene	10.4	10.4	10.0	10.0	104	104	80-122	0	18	
Tetrachloroethene	9.88	9.88	10.0	10.0	99	99	80-124	0	18	
Surrogate:										
Dibromofluoromethane					102	101	75-127			
Toluene-d8					101	101	80-127			
4-Bromofluorobenzene					101	101	78-125			





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



Company: SoundEarth Strategies		Turnaround Request (in working days)		Laboratory Number: 04-201	
Project Number: 0651-002		☐ Same Day ☐ 1 Day		CVOCs Dissolved Gases (Methane, Ethane, Ethene) by RSK-175 Sulfate, Chloride, Nitrate by EPA 300 TOC by EPA 352.2 Total Mn and Total Fe by EPA 200.8 Ferrous Iron Volatile Organic Fatty Acids Organophosphorus Pesticides 8270/SIM Chlorinated Acid Herbicides 8151 Total RCRA Metals Total MTCA Metals TCLP Metals HEM (oil and grease) 1664 % Moisture	
Project Name: The Hearthstone		☐ 2 Days ☐ 3 Days			
Project Manager: Tom Cammarata		☒ Standard (7 Days)			
Sampled by: Linnea Coleman		☐ (other)			
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	EW07-20240412	4/12/24	1228	H2O	X
2	EW08-20240412		1230		X
3	EW15-20240412		1255		X
4	EW16-20240412		1300		X
5	EW21-20240412		1445		X
6	EW22-20240412		1455		X
7	EW29-20240412		1520		X
8	EW30-20240412		1535		X
9	EW31-20240415	4/15/24	1225		X
10	EW32-20240415		1215		X
Signature: <i>[Signature]</i>		Company: SoundEarth		Date: 4/15/24	Time: 245
Relinquished		Relinquished		Date: 4/15/24	Time: 245
Received		Received		Date: 4/15/24	Time: 450
Relinquished		Relinquished		Date: 4/15/24	Time: 1650
Received		Received			
Relinquished		Relinquished			
Received		Received			
Reviewed/Date		Reviewed/Date		Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐	



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

Chain of Custody

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Laboratory Number:

04-201

Number of Containers

CVOCs

Dissolved Gases (Methane, Ethane, Ethene) by RSK-175

Sulfate, Chloride, Nitrate

TOC by SM 310B

Total Mn and Total Fe by EPA 200.8

Volatile Organic Fatty Acids

Ferrous Iron

Organophosphorus Pesticides 8270/SIM

Chlorinated Acid Herbicides 8151

Total RCRA Metals

Total MTCA Metals

TCLP Metals

HEM (oil and grease) 1664

% Moisture

Company: **SoundEarth Strategies**

Project Number:

0651-002

Project Name:

The Hearthstone

Project Manager:

Tom Cammarata

Sampled by:

Linnea Coleman

Lab ID

Sample Identification

Date Sampled

Time Sampled

Matrix

Number of Containers

CVOCs

Dissolved Gases (Methane, Ethane, Ethene) by RSK-175

Sulfate, Chloride, Nitrate

TOC by SM 310B

Total Mn and Total Fe by EPA 200.8

Volatile Organic Fatty Acids

Ferrous Iron

Organophosphorus Pesticides 8270/SIM

Chlorinated Acid Herbicides 8151

Total RCRA Metals

Total MTCA Metals

TCLP Metals

HEM (oil and grease) 1664

% Moisture

11 IW33-20240415

12 IW34-20240415

13 IW36-20240415

14 IW38-20240415

15 IW35-20240412

16 IW57-20240412

17 IW59-20240412

18 IW60-20240412

19 IW61-20240412

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Linnea Coleman

Sound Earth

4/15/24

2:45

Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC

Analyze samples at the lowest dilution possible.

#17

Speedy Alpha

4/15/24

4:50

[Signature]

Good Earth

4/15/24

16:50

Send lab reports to Tom & Linnea

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

Sample/Cooler Receipt and Acceptance Checklist

Client: SES
 Client Project Name/Number: 0651-002
 OnSite Project Number: 04-201

Initiated by: MMV
 Date Initiated: 4/15/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	☒ No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	☒ N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	☒ N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	☒ Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	☒ Yes	No	N/A	Temperature: <u>6</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	☒ N/A					
1.7 How were the samples delivered?	Client	☒ Courier	UPS/FedEx	OSE Pickup	Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	☒ Yes	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	☒ Yes	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	☒ Yes	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	☒ Yes	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	☒ Yes	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	☒ No	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	☒ Yes	No	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	☒ No	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	☒ Yes	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	☒ Yes	No	N/A	1	2	3	4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	☒ No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	☒ Yes	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	☒ No	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	☒ N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		☒ N/A	1	2	3	4

Explain any discrepancies:

3.1) #2) 1 vial frozen upon receipt

3.5) #3, 6, 8) 1 vial w/bubble

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed



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

May 20, 2024

Tom Cammarata
Sound Earth Strategies
1011 SW Klickitat Way, Suite 212
Seattle, WA 98134

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2404-218

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on April 16, 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,

A handwritten signature in black ink, appearing to read 'DB', followed by a long horizontal flourish.

David Baumeister
Project Manager

Enclosures



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

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: May 20, 2024
Samples Submitted: April 16, 2024
Laboratory Reference: 2404-218
Project: 0651-002

Case Narrative

Samples were collected on April 15 and 16, 2024 and received by the laboratory on April 16, 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.

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.



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW30-20240415						
Laboratory ID: 04-218-01						
Vinyl Chloride	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				

Client ID: MW37-20240415						
Laboratory ID: 04-218-02						
Vinyl Chloride	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				

Client ID: MW21-20240416						
Laboratory ID: 04-218-03						
Vinyl Chloride (SIM)	0.35	0.20	EPA 8260D/SIM	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	2.0	2.0	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	2.0	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	ND	2.0	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW24-20240416						
Laboratory ID: 04-218-04						
Vinyl Chloride	0.71	0.20	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	0.23	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	0.32	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				
Client ID: MW05-20240416						
Laboratory ID: 04-218-05						
Vinyl Chloride	0.74	0.20	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	0.50	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				
Client ID: MW32-20240416						
Laboratory ID: 04-218-06						
Vinyl Chloride	2.3	0.20	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	0.27	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW09-20240416						
Laboratory ID: 04-218-07						
Vinyl Chloride (SIM)	0.22	0.20	EPA 8260D/SIM	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	10	2.0	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	2.1	2.0	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	450	2.0	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				

Client ID: MW28-20240416						
Laboratory ID: 04-218-08						
Vinyl Chloride	29	0.40	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	0.52	0.40	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	75	0.40	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	1.7	0.40	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	2.0	0.40	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				

Client ID: MW34-20240416						
Laboratory ID: 04-218-09						
Vinyl Chloride	1.0	0.20	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	0.91	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	0.23	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW35-20240416						
Laboratory ID: 04-218-10						
Vinyl Chloride	0.32	0.20	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	26	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	1.9	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	4.7	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	75-127				
<i>Toluene-d8</i>	102	80-127				
<i>4-Bromofluorobenzene</i>	98	78-125				

Client ID: MW29-20240416						
Laboratory ID: 04-218-11						
Vinyl Chloride	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	2.5	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	0.38	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	1.2	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	101	75-127				
<i>Toluene-d8</i>	101	80-127				
<i>4-Bromofluorobenzene</i>	99	78-125				



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

**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:	MB0418W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery		Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB0418W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	9.69	9.81	10.0	10.0	97	98	71-135	1	20	
(trans) 1,2-Dichloroethene	11.0	11.0	10.0	10.0	110	110	80-125	0	17	
(cis) 1,2-Dichloroethene	11.3	11.2	10.0	10.0	113	112	80-129	1	17	
Trichloroethene	10.8	10.7	10.0	10.0	108	107	80-122	1	18	
Tetrachloroethene	10.1	9.97	10.0	10.0	101	100	80-124	1	18	
Surrogate:										
Dibromofluoromethane					104	104	75-127			
Toluene-d8					102	102	80-127			
4-Bromofluorobenzene					103	103	78-125			



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

**DISSOLVED GASES
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW21-20240416					
Laboratory ID:	04-218-03					
Methane	8300	55	RSK 175	4-19-24	4-19-24	
Ethane	ND	0.56	RSK 175	4-19-24	4-19-24	
Ethene	ND	0.58	RSK 175	4-19-24	4-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>85</i>	<i>50-150</i>				

Client ID:	MW05-20240416					
Laboratory ID:	04-218-05					
Methane	4500	55	RSK 175	4-19-24	4-19-24	
Ethane	ND	0.56	RSK 175	4-19-24	4-19-24	
Ethene	ND	0.58	RSK 175	4-19-24	4-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>94</i>	<i>50-150</i>				

Client ID:	MW32-20240416					
Laboratory ID:	04-218-06					
Methane	1100	17	RSK 175	4-19-24	4-19-24	
Ethane	ND	0.56	RSK 175	4-19-24	4-19-24	
Ethene	4.2	0.58	RSK 175	4-19-24	4-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>114</i>	<i>50-150</i>				

Client ID:	MW09-20240416					
Laboratory ID:	04-218-07					
Methane	980	8.3	RSK 175	4-19-24	4-19-24	
Ethane	ND	0.56	RSK 175	4-19-24	4-19-24	
Ethene	ND	0.58	RSK 175	4-19-24	4-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>140</i>	<i>50-150</i>				

Client ID:	MW28-20240416					
Laboratory ID:	04-218-08					
Methane	1600	17	RSK 175	4-19-24	4-19-24	
Ethane	3.6	0.56	RSK 175	4-19-24	4-19-24	
Ethene	39	0.58	RSK 175	4-19-24	4-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>125</i>	<i>50-150</i>				



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

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: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

DISSOLVED GASES
RSK 175

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW34-20240416					
Laboratory ID:	04-218-09					
Methane	1100	8.3	RSK 175	4-19-24	4-19-24	
Ethane	ND	0.56	RSK 175	4-19-24	4-19-24	
Ethene	0.66	0.58	RSK 175	4-19-24	4-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>108</i>	<i>50-150</i>				

Client ID:	MW35-20240416					
Laboratory ID:	04-218-10					
Methane	7.7	0.55	RSK 175	4-19-24	4-19-24	
Ethane	ND	0.56	RSK 175	4-19-24	4-19-24	
Ethene	ND	0.58	RSK 175	4-19-24	4-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>108</i>	<i>50-150</i>				



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

**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:	MB0419W1					
Methane	ND	0.55	RSK 175	4-19-24	4-19-24	
Ethane	ND	0.56	RSK 175	4-19-24	4-19-24	
Ethene	ND	0.58	RSK 175	4-19-24	4-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	110	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0419W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	44.4	36.5	44.2	44.2	100	83	75-125	20	25	
Ethane	81.4	67.5	83.2	83.2	98	81	75-125	19	25	
Ethene	72.6	63.3	77.7	77.7	93	82	75-125	14	25	
Acetylene	56.4	44.5	72.0	72.0	78	62	60-140	24	25	
Surrogate:										
1-Butene					95	82	50-150			



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW21-20240416					
Laboratory ID:	04-218-03					
Sulfate	ND	5.0	ASTM D516-11	4-25-24	4-25-24	

Client ID:	MW05-20240416					
Laboratory ID:	04-218-05					
Sulfate	ND	5.0	ASTM D516-11	4-25-24	4-25-24	

Client ID:	MW32-20240416					
Laboratory ID:	04-218-06					
Sulfate	29	10	ASTM D516-11	4-25-24	4-25-24	

Client ID:	MW09-20240416					
Laboratory ID:	04-218-07					
Sulfate	30	10	ASTM D516-11	4-25-24	4-25-24	

Client ID:	MW28-20240416					
Laboratory ID:	04-218-08					
Sulfate	11	5.0	ASTM D516-11	4-25-24	4-25-24	

Client ID:	MW34-20240416					
Laboratory ID:	04-218-09					
Sulfate	57	20	ASTM D516-11	4-25-24	4-25-24	

Client ID:	MW35-20240416					
Laboratory ID:	04-218-10					
Sulfate	30	10	ASTM D516-11	4-25-24	4-25-24	



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water

Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0425W1					
Sulfate	ND	5.0	ASTM D516-11	4-25-24	4-25-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-218-03							
	ORIG	DUP						
Sulfate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE

Laboratory ID:	04-218-03							
	MS	MS		MS				
Sulfate	8.30	10.0	ND	83	73-127	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0425W1							
	SB	SB		SB				
Sulfate	9.26	10.0	NA	93	85-114	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW21-20240416					
Laboratory ID:	04-218-03					
Chloride	160	4.0	SM 4500-Cl E	4-22-24	4-22-24	

Client ID:	MW05-20240416					
Laboratory ID:	04-218-05					
Chloride	26	2.0	SM 4500-Cl E	4-22-24	4-22-24	

Client ID:	MW32-20240416					
Laboratory ID:	04-218-06					
Chloride	15	2.0	SM 4500-Cl E	4-22-24	4-22-24	

Client ID:	MW09-20240416					
Laboratory ID:	04-218-07					
Chloride	6.8	2.0	SM 4500-Cl E	4-22-24	4-22-24	

Client ID:	MW28-20240416					
Laboratory ID:	04-218-08					
Chloride	110	4.0	SM 4500-Cl E	4-22-24	4-22-24	

Client ID:	MW34-20240416					
Laboratory ID:	04-218-09					
Chloride	11	2.0	SM 4500-Cl E	4-22-24	4-22-24	

Client ID:	MW35-20240416					
Laboratory ID:	04-218-10					
Chloride	10	2.0	SM 4500-Cl E	4-22-24	4-22-24	



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

**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:	MB0422W1					
Chloride	ND	2.0	SM 4500-Cl E	4-22-24	4-22-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-200-01							
	ORIG	DUP						
Chloride	68.6	68.3	NA	NA	NA	NA	0	12

MATRIX SPIKE

Laboratory ID:	04-200-01							
	MS	MS		MS				
Chloride	163	100	68.6	94	83-120	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0422W1							
	SB	SB		SB				
Chloride	46.8	50.0	NA	94	83-119	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW21-20240416					
Laboratory ID:	04-218-03					
Nitrate	0.14	0.050	EPA 353.2	4-17-24	4-17-24	

Client ID:	MW05-20240416					
Laboratory ID:	04-218-05					
Nitrate	0.11	0.050	EPA 353.2	4-17-24	4-17-24	

Client ID:	MW32-20240416					
Laboratory ID:	04-218-06					
Nitrate	ND	0.050	EPA 353.2	4-17-24	4-17-24	

Client ID:	MW09-20240416					
Laboratory ID:	04-218-07					
Nitrate	0.88	0.050	EPA 353.2	4-17-24	4-17-24	

Client ID:	MW28-20240416					
Laboratory ID:	04-218-08					
Nitrate	ND	0.050	EPA 353.2	4-17-24	4-17-24	

Client ID:	MW34-20240416					
Laboratory ID:	04-218-09					
Nitrate	ND	0.050	EPA 353.2	4-17-24	4-17-24	

Client ID:	MW35-20240416					
Laboratory ID:	04-218-10					
Nitrate	ND	0.050	EPA 353.2	4-17-24	4-17-24	



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

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:	MB041724					
Nitrate	ND	0.050	EPA 353.2	4-17-24	4-17-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-218-03							
	ORIG	DUP						
Nitrate	0.137	0.162	NA	NA	NA	NA	17	19

MATRIX SPIKE								
Laboratory ID:	04-218-03							
	MS	MS		MS				
Nitrate	2.03	2.00	0.137	95	85-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB041724							
	SB	SB		SB				
Nitrate	2.12	2.00	NA	106	87-118	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW21-20240416					
Laboratory ID:	04-218-03					
Total Organic Carbon	760	20	SM 5310B	4-25-24	4-25-24	

Client ID:	MW05-20240416					
Laboratory ID:	04-218-05					
Total Organic Carbon	37	1.0	SM 5310B	4-23-24	4-23-24	

Client ID:	MW32-20240416					
Laboratory ID:	04-218-06					
Total Organic Carbon	2.6	1.0	SM 5310B	4-23-24	4-23-24	

Client ID:	MW09-20240416					
Laboratory ID:	04-218-07					
Total Organic Carbon	ND	1.0	SM 5310B	4-23-24	4-23-24	

Client ID:	MW28-20240416					
Laboratory ID:	04-218-08					
Total Organic Carbon	6.0	1.0	SM 5310B	4-23-24	4-23-24	

Client ID:	MW34-20240416					
Laboratory ID:	04-218-09					
Total Organic Carbon	2.3	1.0	SM 5310B	4-23-24	4-23-24	

Client ID:	MW35-20240416					
Laboratory ID:	04-218-10					
Total Organic Carbon	ND	1.0	SM 5310B	4-23-24	4-23-24	



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

**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:	MB0423W1					
Total Organic Carbon	ND	1.0	SM 5310B	4-23-24	4-23-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-200-01							
	ORIG	DUP						
Total Organic Carbon	81.2	81.3	NA	NA	NA	0	13	

MATRIX SPIKE

Laboratory ID:	04-200-01							
	MS	MS		MS				
Total Organic Carbon	93.9	10.0	81.2	127	86-127	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0423W1							
	SB	SB		SB				
Total Organic Carbon	12.1	10.0	NA	121	90-122	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

**TOTAL METALS
EPA 6010D**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW21-20240416						
Laboratory ID:	04-218-03					
Iron	90000	500	EPA 6010D	4-18-24	4-18-24	
Manganese	2100	10	EPA 6010D	4-18-24	4-18-24	

Client ID: MW05-20240416						
Laboratory ID:	04-218-05					
Iron	30000	500	EPA 6010D	4-18-24	4-18-24	
Manganese	2700	10	EPA 6010D	4-18-24	4-18-24	

Client ID: MW32-20240416						
Laboratory ID:	04-218-06					
Iron	260	50	EPA 6010D	4-18-24	4-18-24	
Manganese	180	10	EPA 6010D	4-18-24	4-18-24	

Client ID: MW09-20240416						
Laboratory ID:	04-218-07					
Iron	84	50	EPA 6010D	4-18-24	4-18-24	
Manganese	250	10	EPA 6010D	4-18-24	4-18-24	

Client ID: MW28-20240416						
Laboratory ID:	04-218-08					
Iron	1400	50	EPA 6010D	4-18-24	4-18-24	
Manganese	710	10	EPA 6010D	4-18-24	4-18-24	

Client ID: MW34-20240416						
Laboratory ID:	04-218-09					
Iron	580	50	EPA 6010D	4-18-24	4-18-24	
Manganese	110	10	EPA 6010D	4-18-24	4-18-24	

Client ID: MW35-20240416						
Laboratory ID:	04-218-10					
Iron	56	50	EPA 6010D	4-18-24	4-18-24	
Manganese	28	10	EPA 6010D	4-18-24	4-18-24	



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Date of Report: May 20, 2024
 Samples Submitted: April 16, 2024
 Laboratory Reference: 2404-218
 Project: 0651-002

**TOTAL METALS
 EPA 6010D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0418WH1					
Iron	ND	50	EPA 6010D	4-18-24	4-18-24	
Manganese	ND	10	EPA 6010D	4-18-24	4-18-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-191-03							
	ORIG	DUP						
Iron	1850	1960	NA	NA	NA	NA	6	20
Manganese	43.4	46.1	NA	NA	NA	NA	6	20

MATRIX SPIKES

Laboratory ID:	04-191-03									
	MS	MSD	MS	MSD		MS	MSD			
Iron	23300	23000	20000	20000	1850	107	106	75-125	1	20
Manganese	560	555	500	500	43.4	103	102	75-125	1	20





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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Seattle, WA 98103
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info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: The Hearthstone

Work Order Number: 2404292

April 23, 2024

Attention David Baumeister:

Fremont Analytical, Inc, an Alliance Technical Group company, received 7 sample(s) on 4/16/2024 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com

CLIENT: OnSite Environmental Inc
Project: The Hearthstone
Work Order: 2404292

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2404292-001	MW21-20240416	04/16/2024 9:45 AM	04/16/2024 4:17 PM
2404292-002	MW05-20240416	04/16/2024 10:10 AM	04/16/2024 4:17 PM
2404292-003	MW09-20240416	04/16/2024 11:40 AM	04/16/2024 4:17 PM
2404292-004	MW32-20240416	04/16/2024 11:45 AM	04/16/2024 4:17 PM
2404292-005	MW34-20240416	04/16/2024 1:53 PM	04/16/2024 4:17 PM
2404292-006	MW35-20240416	04/16/2024 2:40 PM	04/16/2024 4:17 PM
2404292-007	MW28-20240416	04/16/2024 1:40 PM	04/16/2024 4:17 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc**Project:** The Hearthstone

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: The Hearthstone

Lab ID: 2404292-001 **Collection Date:** 4/16/2024 9:45:00 AM
Client Sample ID: MW21-20240416 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B Batch ID: R91008 Analyst: SLL

Ferrous Iron	109	37.5	D	mg/L	250	4/16/2024 4:30:08 PM
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Lab ID: 2404292-002 **Collection Date:** 4/16/2024 10:10:00 AM
Client Sample ID: MW05-20240416 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Ferrous Iron by SM3500-Fe B Batch ID: R91008 Analyst: SLL

Ferrous Iron	33.5	3.75	D	mg/L	25	4/16/2024 4:30:08 PM
--------------	------	------	---	------	----	----------------------

Lab ID: 2404292-003 **Collection Date:** 4/16/2024 11:40:00 AM
Client Sample ID: MW09-20240416 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Ferrous Iron by SM3500-Fe B Batch ID: R91008 Analyst: SLL

Ferrous Iron	ND	0.150		mg/L	1	4/16/2024 4:30:08 PM
--------------	----	-------	--	------	---	----------------------

Lab ID: 2404292-004 **Collection Date:** 4/16/2024 11:45:00 AM
Client Sample ID: MW32-20240416 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Ferrous Iron by SM3500-Fe B Batch ID: R91008 Analyst: SLL

Ferrous Iron	ND	0.150		mg/L	1	4/16/2024 4:30:08 PM
--------------	----	-------	--	------	---	----------------------

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2404292-005

Collection Date: 4/16/2024 1:53:00 PM

Client Sample ID: MW34-20240416

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Ferrous Iron by SM3500-Fe B

Batch ID: R91008 Analyst: SLL

Ferrous Iron	0.182	0.150		mg/L	1	4/16/2024 4:30:08 PM
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Lab ID: 2404292-006

Collection Date: 4/16/2024 2:40:00 PM

Client Sample ID: MW35-20240416

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Ferrous Iron by SM3500-Fe B

Batch ID: R91008 Analyst: SLL

Ferrous Iron	ND	0.150		mg/L	1	4/16/2024 4:30:08 PM
--------------	----	-------	--	------	---	----------------------

Lab ID: 2404292-007

Collection Date: 4/16/2024 1:40:00 PM

Client Sample ID: MW28-20240416

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Ferrous Iron by SM3500-Fe B

Batch ID: R91008 Analyst: SLL

Ferrous Iron	1.38	0.150		mg/L	1	4/16/2024 4:30:08 PM
--------------	------	-------	--	------	---	----------------------

Work Order: 2404292
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R91008	SampType: MBLK	Units: mg/L	Prep Date: 4/16/2024	RunNo: 91008							
Client ID: MBLKW	Batch ID: R91008		Analysis Date: 4/16/2024	SeqNo: 1897781							
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-R91008		SampType: LCS			Units: mg/L		Prep Date: 4/16/2024			RunNo: 91008		
Client ID: LCSW		Batch ID: R91008			Analysis Date: 4/16/2024			SeqNo: 1897782				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Ferrous Iron 0.391 0.150 0.4000 0 97.8 85 115

Sample ID: 2404292-004ADUP	SampType: DUP	Units: mg/L	Prep Date: 4/16/2024	RunNo: 91008							
Client ID: MW32-20240416	Batch ID: R91008		Analysis Date: 4/16/2024	SeqNo: 1897788							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron ND 0.150 0 20

Sample ID: 2404292-004AMS		SampType: MS		Units: mg/L		Prep Date: 4/16/2024			RunNo: 91008		
Client ID: MW32-20240416		Batch ID: R91008					Analysis Date: 4/16/2024			SeqNo: 1897789	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 0.391 0.150 0.4000 0.06104 82.6 70 130

Sample ID: 2404292-004AMSD		SampType: MSD		Units: mg/L		Prep Date: 4/16/2024			RunNo: 91008		
Client ID: MW32-20240416		Batch ID: R91008					Analysis Date: 4/16/2024			SeqNo: 1897790	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 0.461 0.150 0.4000 0.06104 100 70 130 0.3913 16.4 30

Sample Log-In Check List

Client Name: ONSITE

Work Order Number: 2404292

Logged by: Morgan Wilson

Date Received: 4/16/2024 4:17:00 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 °C
Sample	1.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Chain of Custody

Received	Received Date
----------	---------------

Revised/Date	
--------------	--

CVOCs
Dissolved Gases (Methane, Ethane, Ethene) by RSK-175
Sulfate, Chloride, Nitrate
TOC by SM 310B
Total Mn and Total Fe by EPA 200.8
Volatile Organic Fatty Acids
Ferrous Iron
Organophosphorus Pesticides 8270/SIM
Chlorinated Acid Herbicides 8151
Total RCRA Metals
Total MTCA Metals
TCLP Metals
HEM (oil and grease) 1664
% Moisture

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

Analytical Results

SiREM File Reference: S-10384

Client: OnSite Environmental Inc.
Client Project Number: 0651-002 Lab Ref. 04-218
Date Samples Received: April 18, 2024
Date Samples Analyzed: April 24, 2024

Client Sample ID	SiREM Reference ID	Client Sample Date	Sample Dilution Factor	Lactate	Acetate	Propionate	Formate	Butyrate	Pryuvate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW21-20240416	24-17415	16-Apr-24	1,000x	<10	684	314	20 J	154	<15
MW05-20240416	24-17416	16-Apr-24	50x	<0.50	1.0 J	<0.26	1.2 J	<0.06	<0.75
MW32-20240416	24-17417	16-Apr-24	1,000x	32	<5.9	<5.3	<5.0	<1.2	<15
MW09-20240416	24-17418	16-Apr-24	50x	1.8 J	1.3 J	<0.26	1.3 J	<0.06	<0.75
MW28-20240416	24-17419	16-Apr-24	50x	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
MW34-20240416	24-17420	16-Apr-24	50x	<0.50	1.0 J	<0.26	1.0 J	<0.06	<0.75
MW35-20240416	24-17421	16-Apr-24	50x	1.6 J	1.1 J	<0.26	1.1 J	<0.06	<0.75

QL	50	0.50	0.30	0.26	0.25	0.06	0.75
	1,000	10	5.9	5.3	5.0	1.2	15
RL	50	2.0	2.0	2.0	2.0	2.0	2.0
	1,000	40	40	40	40	40	40

Comments:

Method: Ion Chromatography with Electrical Conductivity Detection
J = the associated value is an estimated result between the QL and the RL
QL = Quantitation Limit
RL = Reporting Limit
mg/L = milligram per liter
< = compound analyzed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst:

Brooke Rapien

Brooke Rapien, B.Sc.
Laboratory Technician II

Results approved:

Kela Ashworth

Kela Ashworth, B.Sc.
Scientist

Date:

20-May-24



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

Laboratory: SiREM Laboratory

Attention: Ximena Druan

Address: 180A Market Place Blvd.

Address: Knoxville, TN 37922

Phone Number: (865) 330-0037

Turnaround Request

1 Day **2 Day** 3 Day

Standard

Other: _____

Laboratory Reference #: **04-218**

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name: _____

S-10384
Page 1 of 1

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW21-20240416	4/16/24	9:45	W	3	Volatile Organic Fatty Acids <i>Rec'd 2.8°C (KX0021W)</i>
	MW05-20240416	4/16/24	10:10	W	3	Volatile Organic Fatty Acids <i>blue ice - UPS</i>
	MW32-20240416	4/16/24	11:45	W	3	Volatile Organic Fatty Acids
	MW09-20240416	4/16/24	11:40	W	3	Volatile Organic Fatty Acids
	MW28-20240416	4/16/24	13:40	W	3	Volatile Organic Fatty Acids
	MW34-20240416	4/16/24	13:53	W	3	Volatile Organic Fatty Acids
	MW35-20240416	4/16/24	14:40	W	3	Volatile Organic Fatty Acids
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by: <i>[Signature]</i>		<i>ORE</i>		4/17/24	1600	EIM
Received by:		<i>UPS</i>				
Relinquished by:		<i>UPS</i>				
Received by: <i>[Signature]</i>		SiREM		4-18-24	1018	
Relinquished by:						
Received by:						



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Laboratory: SIREM Laboratory

Attention: Ximena Druan

Address: 180A Market Place Blvd.

Address: Knoxville, TN 37922

Phone Number: (865) 330-0037

Turnaround Request

1 Day **2 Day** 3 Day

Standard

Other: _____

Laboratory Reference #: **04-218**

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name: _____

S-10384
Page 1 of 1

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
/	MW21-20240416	4/16/24	9:45	W	3 1	Volatile Organic Fatty Acids rec'd 2.8°C (KX00216)
/	MW05-20240416	4/16/24	10:10	W	3	Volatile Organic Fatty Acids blue ice - UPS
/	MW32-20240416	4/16/24	11:45	W	3	Volatile Organic Fatty Acids
/	MW09-20240416	4/16/24	11:40	W	3	Volatile Organic Fatty Acids
/	MW28-20240416	4/16/24	13:40	W	3	Volatile Organic Fatty Acids
/	MW34-20240416	4/16/24	13:53	W	3	Volatile Organic Fatty Acids
/	MW35-20240416	4/16/24	14:40	W	3	Volatile Organic Fatty Acids
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by:		ORE		4/17/24	1600	EIM
Received by:		UPS				
Relinquished by:		UPS				
Received by:		SIREM		4-18-24	1018	
Relinquished by: K. Crachicola		SIREM		4-22-24	1600	
Received by: B. Carson		SIREM		4-23-24	1:10pm	



Onsite Environmental Inc.
Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: SoundEarth Strategies		Turnaround Request (in working days)		Laboratory Number: 04-218																
Project Number: 0651-002		☐ Same Day ☐ 1 Day																		
Project Name: The Hearthstone		☐ 2 Days ☐ 3 Days																		
Project Manager: Tom Cammarata		☒ Standard (7 Days)																		
Sampled by: Linnea Coleman		☐ (other)																		
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers		CVOCs	Dissolved Gases (Methane, Ethane, Ethene) by RSK-175	Sulfate, Chloride, Nitrate	TOC by SM 310B	Total Mn and Total Fe by EPA 200.8	Volatile Organic Fatty Acids	Ferrous Iron *	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
1	MW30-20240415	4/15/24	1540	H2O	3	X	X													
2	MW37-20240415	↓	1635		3	X	X													
3	MW21-20240416	4/16/24	0945		12	X	X	X	X	X	XX									
4	MW24-20240416		1050		3	X														
5	MW05-20240416		1010		12	X	X	X	X	X	X	X								
6	MW32-20240416		1145		12	X	X	X	X	X	X	X								
7	MW09-20240416		1140		12	X	X	X	X	X	X	X								
8	MW28-20240416		1340		12	X	X	X	X	X	X	X								
9	MW33-20240416		1305		3	X	X	X	X	X	X	X								
9	MW34-20240416	↓	1353		12	X	X	X	X	X	X	X								
Signature: <i>[Signature]</i>		Company: SoundEarth		Date: 4/16/24	Time: 1508	Comments/Special Instructions: Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC Analyze samples at the lowest dilution possible. * = samples delivered directly to Freeman + Analytical Send lab reports to Tom & Linnea														
Received		Received		Received		Data Package: Standard ☐ Level III ☐ Level IV ☐														
Relinquished		Relinquished		Relinquished		Chromatograms with final report ☐ Electronic Data Deliver ☐ (EDDs) ☐														
Reviewed/Date		Reviewed/Date		Reviewed/Date																



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Chain of Custody

Page 2 of 2

Company: **SoundEarth Strategies**

Project Number: **0651-002**

Project Name: **The Hearthstone**

Project Manager: **Tom Cammarata**

Sampled by: **Linnea Coleman**

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ (other) _____

Lab ID: **Sample Identification**

ID MW35-20240416

11-22 MW29-20240416

11-22 MW29-20240416

Date Sampled: **4/16/24**

Time Sampled: **1440**

Matrix: **H2O**

Number of Containers: **12**

Number of Containers

CVOCs

Dissolved Gases (Methane, Ethane, Ethene) by RSK-175

Sulfate, Chloride, Nitrate

TOC by SM 310B

Total Mn and Total Fe by EPA 200.8

Volatile Organic Fatty Acids

Ferrous Iron *

Organophosphorus Pesticides 8270/SIM

Chlorinated Acid Herbicides 8151

Total RCRA Metals

Total MTCA Metals

TCLP Metals

HEM (oil and grease) 1664

% Moisture

Laboratory Number: **04-218**

Signature	Company	Date	Time	Comments/Special Instructions
<i>Linnea Coleman</i>	SoundEarth	4/16/24	1508	Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC
<i>#17</i>	SoundEarth	4/16/24	1509	Analyze samples at the lowest dilution possible.
<i>#11</i>	SoundEarth	4/16/24	1514	
<i>Linnea Coleman</i>	SoundEarth	4/16/24	1714	Send lab reports to Tom & Linnea
				Data Package: Standard ☐ Level III ☐ Level IV ☐
				Chromatograms with final report ☐ Electronic Data Deliver ☐ (EDS) ☐

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Received					
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date		Reviewed/Date			

Sample/Cooler Receipt and Acceptance Checklist

Client: SES
 Client Project Name/Number: 0651-002
 OnSite Project Number: 04-218

Initiated by: MM
 Date Initiated: 4/16/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	☒ No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	☒ N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	☒ N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	☒ Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	☒ Yes	No	N/A	Temperature: <u>6</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	☒ N/A					
1.7 How were the samples delivered?	Client	☒ Courier	UPS/FedEx	OSE Pickup	Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	☒ Yes	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	☒ Yes	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	☒ Yes	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	☒ No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	☒ Yes	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	☒ No	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	☒ No	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	☒ No	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	☒ Yes	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	☒ Yes	No	N/A	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	☒ No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	☒ Yes	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	☒ Yes	No	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	☒ N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	☒ N/A	1	2	3	4	

Explain any discrepancies:

2.4) #10) no - 20240416 as vid (1)
3.5) #1) + #3) 1 vid w/bubble
3.7) 1rem will expire < 24hrs

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed



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May 20, 2024

Tom Cammarata
Sound Earth Strategies
1011 SW Klickitat Way, Suite 212
Seattle, WA 98134

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2404-236

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on April 17, 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,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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: May 20, 2024
Samples Submitted: April 17, 2024
Laboratory Reference: 2404-236
Project: 0651-002

Case Narrative

Samples were collected on April 16 and 17, 2024 and received by the laboratory on April 17, 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.

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 surrogate recovery for sample MW31-20240417 was above the quality control limits due to a coeluting peak. The sample was re-analyzed with similar results. No further action was taken.

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.



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW33-20240416						
Laboratory ID: 04-236-01						
Vinyl Chloride	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	0.20	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	100	75-127				
<i>Toluene-d8</i>	102	80-127				
<i>4-Bromofluorobenzene</i>	99	78-125				

Client ID: MW03-20240416						
Laboratory ID: 04-236-02						
Vinyl Chloride	1.8	0.20	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	19	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	3.3	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	2.7	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	103	75-127				
<i>Toluene-d8</i>	102	80-127				
<i>4-Bromofluorobenzene</i>	98	78-125				

Client ID: MW10-20240417						
Laboratory ID: 04-236-03						
Vinyl Chloride (SIM)	0.75	0.080	EPA 8260D/SIM	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	130	0.80	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	0.80	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	0.98	0.80	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	100	75-127				
<i>Toluene-d8</i>	102	80-127				
<i>4-Bromofluorobenzene</i>	99	78-125				



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW31-20240417					
Laboratory ID:	04-236-04					
Vinyl Chloride	2700	40	EPA 8260D	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	60	40	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	7900	40	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	40	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	ND	40	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0418W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	4-18-24	4-18-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Trichloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
Tetrachloroethene	ND	0.20	EPA 8260D	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery		Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB0418W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	9.69	9.81	10.0	10.0	97	98	71-135	1	20	
(trans) 1,2-Dichloroethene	11.0	11.0	10.0	10.0	110	110	80-125	0	17	
(cis) 1,2-Dichloroethene	11.3	11.2	10.0	10.0	113	112	80-129	1	17	
Trichloroethene	10.8	10.7	10.0	10.0	108	107	80-122	1	18	
Tetrachloroethene	10.1	9.97	10.0	10.0	101	100	80-124	1	18	
Surrogate:										
Dibromofluoromethane					104	104	75-127			
Toluene-d8					102	102	80-127			
4-Bromofluorobenzene					103	103	78-125			



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

DISSOLVED GASES
RSK 175

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW10-20240417					
Laboratory ID:	04-236-03					
Methane	4100	55	RSK 175	4-18-24	4-18-24	
Ethane	ND	0.56	RSK 175	4-18-24	4-18-24	
Ethene	ND	0.58	RSK 175	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>120</i>	<i>50-150</i>				

Client ID:	MW31-20240417					
Laboratory ID:	04-236-04					
Methane	370	2.2	RSK 175	4-18-24	4-18-24	
Ethane	ND	0.56	RSK 175	4-18-24	4-18-24	
Ethene	130	0.58	RSK 175	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>160</i>	<i>50-150</i>				Q



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

**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:	MB0418W1					
Methane	ND	0.55	RSK 175	4-18-24	4-18-24	
Ethane	ND	0.56	RSK 175	4-18-24	4-18-24	
Ethene	ND	0.58	RSK 175	4-18-24	4-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	127	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0418W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	48.6	47.4	44.2	44.2	110	107	75-125	3	25	
Ethane	91.1	88.2	83.2	83.2	109	106	75-125	3	25	
Ethene	85.7	80.3	77.7	77.7	110	103	75-125	7	25	
Surrogate:										
1-Butene					110	101	50-150			



Date of Report: May 20, 2024
Samples Submitted: April 17, 2024
Laboratory Reference: 2404-236
Project: 0651-002

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW10-20240417					
Laboratory ID:	04-236-03					
Sulfate	ND	5.0	ASTM D516-11	4-22-24	4-22-24	

Client ID:	MW31-20240417					
Laboratory ID:	04-236-04					
Sulfate	6.9	5.0	ASTM D516-11	4-22-24	4-22-24	



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water

Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Sulfate	ND	5.0	ASTM D516-11	4-22-24	4-22-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-199-01							
	ORIG	DUP						
Sulfate	8.38	8.43	NA	NA	NA	NA	1	10

MATRIX SPIKE

Laboratory ID:	04-199-01							
	MS	MS		MS				
Sulfate	18.1	10.0	8.38	97	73-127	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0422W1							
	SB	SB		SB				
Sulfate	9.48	10.0	NA	95	85-114	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW10-20240417					
Laboratory ID:	04-236-03					
Chloride	9.0	2.0	SM 4500-Cl E	4-22-24	4-22-24	

Client ID:	MW31-20240417					
Laboratory ID:	04-236-04					
Chloride	24	2.0	SM 4500-Cl E	4-22-24	4-22-24	



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

**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:	MB0422W1					
Chloride	ND	2.0	SM 4500-Cl E	4-22-24	4-22-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-200-01							
	ORIG	DUP						
Chloride	68.6	68.3	NA	NA	NA	NA	0	12

MATRIX SPIKE

Laboratory ID:	04-200-01							
	MS	MS		MS				
Chloride	163	100	68.6	94	83-120	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0422W1							
	SB	SB		SB				
Chloride	46.8	50.0	NA	94	83-119	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW10-20240417					
Laboratory ID:	04-236-03					
Nitrate	ND	0.050	EPA 353.2	4-17-24	4-17-24	

Client ID:	MW31-20240417					
Laboratory ID:	04-236-04					
Nitrate	0.072	0.050	EPA 353.2	4-17-24	4-17-24	



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

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:	MB041724					
Nitrate	ND	0.050	EPA 353.2	4-17-24	4-17-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-218-03							
	ORIG	DUP						
Nitrate	0.137	0.162	NA	NA	NA	NA	17	19

MATRIX SPIKE								
Laboratory ID:	04-218-03							
	MS	MS		MS				
Nitrate	2.03	2.00	0.137	95	85-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB041724							
	SB	SB		SB				
Nitrate	2.12	2.00	NA	106	87-118	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW10-20240417					
Laboratory ID:	04-236-03					
Total Organic Carbon	11	1.0	SM 5310B	4-23-24	4-23-24	

Client ID:	MW31-20240417					
Laboratory ID:	04-236-04					
Total Organic Carbon	3.2	1.0	SM 5310B	4-23-24	4-23-24	



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

**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:	MB0423W1					
Total Organic Carbon	ND	1.0	SM 5310B	4-23-24	4-23-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-200-01							
	ORIG	DUP						
Total Organic Carbon	81.2	81.3	NA	NA	NA	0	13	

MATRIX SPIKE

Laboratory ID:	04-200-01							
	MS	MS		MS				
Total Organic Carbon	93.9	10.0	81.2	127	86-127	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0423W1							
	SB	SB		SB				
Total Organic Carbon	12.1	10.0	NA	121	90-122	NA	NA	



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

**TOTAL METALS
 EPA 6010D**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW10-20240417						
Laboratory ID: 04-236-03						
Iron	1000	50	EPA 6010D	4-18-24	4-18-24	
Manganese	290	10	EPA 6010D	4-18-24	4-18-24	

Client ID: MW31-20240417						
Laboratory ID: 04-236-04						
Iron	180	50	EPA 6010D	4-18-24	4-18-24	
Manganese	140	10	EPA 6010D	4-18-24	4-18-24	



Date of Report: May 20, 2024
 Samples Submitted: April 17, 2024
 Laboratory Reference: 2404-236
 Project: 0651-002

**TOTAL METALS
 EPA 6010D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0418WH1					
Iron	ND	50	EPA 6010D	4-18-24	4-18-24	
Manganese	ND	10	EPA 6010D	4-18-24	4-18-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-191-03							
	ORIG	DUP						
Iron	1850	1960	NA	NA	NA	NA	6	20
Manganese	43.4	46.1	NA	NA	NA	NA	6	20

MATRIX SPIKES

Laboratory ID:	04-191-03									
	MS	MSD	MS	MSD		MS	MSD			
Iron	23300	23000	20000	20000	1850	107	106	75-125	1	20
Manganese	560	555	500	500	43.4	103	102	75-125	1	20





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





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: The Hearthstone

Work Order Number: 2404314

April 23, 2024

Attention David Baumeister:

Fremont Analytical, Inc, an Alliance Technical Group company, received 2 sample(s) on 4/17/2024 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com

CLIENT: OnSite Environmental Inc
Project: The Hearthstone
Work Order: 2404314

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2404314-001	MW10-20240417	04/17/2024 10:10 AM	04/17/2024 12:15 PM
2404314-002	MW31-20240417	04/17/2024 11:30 AM	04/17/2024 12:15 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: The Hearthstone

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

Work Order: **2404314**
 Date Reported: **4/23/2024**

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2404314-001

Collection Date: 4/17/2024 10:10:00 AM

Client Sample ID: MW10-20240417

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B

Batch ID: R91059 Analyst: SLL

Ferrous Iron	1.05	0.150		mg/L	1	4/18/2024 9:38:47 AM
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Lab ID: 2404314-002

Collection Date: 4/17/2024 11:30:00 AM

Client Sample ID: MW31-20240417

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B

Batch ID: R91059 Analyst: SLL

Ferrous Iron	0.166	0.150		mg/L	1	4/18/2024 9:38:47 AM
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Work Order: 2404314
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R91059		SampType: MBLK		Units: mg/L		Prep Date: 4/18/2024			RunNo: 91059		
Client ID: MBLKW		Batch ID: R91059					Analysis Date: 4/18/2024			SeqNo: 1898385	
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-R91059		SampType: LCS		Units: mg/L		Prep Date: 4/18/2024			RunNo: 91059		
Client ID: LCSW		Batch ID: R91059					Analysis Date: 4/18/2024			SeqNo: 1898386	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.429	0.150	0.4000	0	107	85	115				

Sample ID: 2404314-001ADUP		SampType: DUP		Units: mg/L		Prep Date: 4/18/2024			RunNo: 91059		
Client ID: MW10-20240417		Batch ID: R91059					Analysis Date: 4/18/2024			SeqNo: 1898388	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.02	0.150						1.049	2.59	20	

Sample ID: 2404314-001AMS		SampType: MS		Units: mg/L		Prep Date: 4/18/2024			RunNo: 91059		
Client ID: MW10-20240417		Batch ID: R91059					Analysis Date: 4/18/2024			SeqNo: 1898389	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.50	0.150	0.4000	1.049	112	70	130				

Sample ID: 2404314-001AMSD		SampType: MSD		Units: mg/L		Prep Date: 4/18/2024			RunNo: 91059		
Client ID: MW10-20240417		Batch ID: R91059					Analysis Date: 4/18/2024			SeqNo: 1898390	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.42	0.150	0.4000	1.049	92.6	70	130	1.498	5.34	30	

Sample Log-In Check List

Client Name: ONSITE

Work Order Number: 2404314

Logged by: Morgan Wilson

Date Received: 4/17/2024 12:15:00 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 °C
Sample	3.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Chain of Custody

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

Company:

SoundEarth Strategies onsite

Project Number:

0651-002

Project Name:

The Hearthstone

Project Manager:

Tom Cammarata David Baumwister

Sampled by:

Linnea Coleman

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ (other)

Lab ID

Date Sampled

Time Sampled

Matrix

Number of Containers

CVOCs
Dissolved Gases (Methane, Ethane, Ethene) by RSK-175
Sulfate, Chloride, Nitrate
TOC by SM 310B
Total Mn and Total Fe by EPA 200.8
Volatile Organic Fatty Acids
Ferrous Iron

Organophosphorus Pesticides 8270/SIM
Chlorinated Acid Herbicides 8151
Total RCRA Metals
Total MTCA Metals
TCLP Metals
HEM (oil and grease) 1664
% Moisture

Laboratory Number:

2404314

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished

Linnea Coleman

Sound Earth

4/17/24 157

Received

David Baumwister

ALPHA

4/17/24 1157

Relinquished

David Baumwister

ALPHA A

4/17/24 1215

Received

David Baumwister

ATC

4/17/24 1215

Relinquished

David Baumwister

ATC

4/17/24 1215

Received

David Baumwister

ATC

4/17/24 1215

Reviewed/Date

Reviewed/Date

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

Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC
Analyze samples at the lowest dilution possible.
Send lab reports to Tom & Linnea
David Baumwister

Analytical Results

SiREM File Reference: S-10384

Client: OnSite Environmental Inc.
Client Project Number: 0651-002 Lab Ref. 04-236
Date Samples Received: April 18, 2024
Date Samples Analyzed: April 24, 2024

Client Sample ID	SiREM Reference ID	Client Sample Date	Sample Dilution Factor	Lactate	Acetate	Propionate	Formate	Butyrate	Pryuvate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW10-20240417	24-17422	17-Apr-24	50x	2.2	15	<0.26	1.1 J	<0.06	<0.75
MW31-20240417	24-17423	17-Apr-24	50x	<0.50	5.2	<0.26	1.1 J	<0.06	<0.75
QL				50	0.50	0.30	0.26	0.25	0.06
RL				50	2.0	2.0	2.0	2.0	2.0

Comments:

Method: Ion Chromatography with Electrical Conductivity Detection
J = the associated value is an estimated result between the QL and the RL
QL = Quantitation Limit
RL = Reporting Limit
mg/L = milligram per liter
< = compound analyzed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst:

Brooke Rapien

Brooke Rapien, B.Sc.
Laboratory Technician II

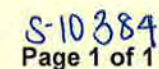
Results approved:

Kela Ashworth

Kela Ashworth, B.Sc.
Scientist

Date:

20-May-24



Laboratory Reference #: 04-218

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name: _____

[illegible]



Phone Number: (865) 330-0037

S-10384
Page 1 of 1

Project Name:

Other:

[illegible]



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

Laboratory: SiREM Laboratory

Attention: Ximena Druan

Address: 180A Market Place Blvd.

Address: Knoxville, TN 37922

Phone Number: (865) 330-0037

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other:

Laboratory Reference #: 04-236

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses	
	MW10-20240417	4/17/24	10:10	W	3	Volatile Organic Fatty Acids	
	MW31-20240417	4/17/24	11:30	W	3	Volatile Organic Fatty Acids	
Signature		Company			Date	Time	Comments/Special Instructions
Relinquished by:							EIM
Received by:							
Relinquished by:							
Received by:							
Relinquished by:							
Received by:							



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Phone: (425) 883-3881 • www.on-site-env.com

Chain of Custody

Page 1 of 1

Company: **SoundEarth Strategies**

Project Number: 0651-002

Project Name: **The Hearthstone**

Project Manager:
Tom Cammarata

Sampled by:
Linnea Coleman

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

of Containers

Lab ID	Sample Identification
--------	-----------------------

Date	Time	Matrix
Sampled	Sampled	

Number of
CVOCs

Dissolved Gases (Methane, Ethane, Ethene) by RSK-175

Sulfate, Chloride, Nitrate

TOC by SM 310B

Total Mn and Total Fe by EPA 200.8

Volatile Organic Fatty Acids

Ferrous Iron*

Organophosphorus Pesticides 8270/SIM

Chlorinated Acid Herbicides 8151

Total RCRA Metals

Total MTCA Metals

TCLP Metals

HEM (oil and grease) 1664

% Moisture

Turnaround Request
(in working days)

Laboratory Number: 04-236

04-236

Company: SoundEarth Strategies					
Phone: (425) 883-3681 www.onsite-env.com					
Project Number: 0651-002					
Project Name: The Hearthstone					
Project Manager: Tom Cammarata					
Sampled by: Linnea Coleman					
(Check One) ☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ Standard (7 Days)					
☐ _____ (other)					
Lat ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW33-20240416	4/16/24	1305	H2O	3
2	MW03-20240416	" "	1535	" "	3
3	MW10-20240417	4/17/24	1010	" "	12
4	MW31-20240417	" "	1130	" "	12
LGC					
4/17/24					
Date					
Time					
Comments/Special Instructions					
CVOCs					
Dissolved Gases (Methane, Ethane, Ethene) by RSK-175					
Sulfate, Chloride, Nitrate					
TOC by SM 310B					
Total Mn and Total Fe by EPA 200.8					
Volatile Organic Fatty Acids					
Ferrous Iron *					
Organophosphorus Pesticides 8270/SIM					
Chlorinated Acid Herbicides 8151					
Total RCRA Metals					
Total MTCA Metals					
TCLP Metals					
HEM (oil and grease) 1664					
% Moisture					

Comments/Special Instructions

Direct bill to The Hearststone CVOcs = PCE, TCE, cis/trans-1,2-DCE, VC

Analyze samples at the lowest dilution possible.

* Samples delivered to Fremont Wildlife Center
Send lab reports to Tom & Linnea

Data Package: Standard ☐ Level III ☐ Level IV ☐

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐ Electronic Data Delivery[®] (EDDs) ☐

Sample/Cooler Receipt and Acceptance Checklist

Client: SES

Client Project Name/Number: 0451-002

OnSite Project Number: 04-236

Initiated by: NB

Date Initiated: 4/17/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	☒ No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	☒ N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	☒ N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	☒ Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	☒ Yes	No	N/A	Temperature: <u>3.4</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	☒ N/A					
1.7 How were the samples delivered?	Client	☒ Courier	UPS/FedEx	OSE Pickup			Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	☒ Yes	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	☒ Yes	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	☒ Yes	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	☒ Yes	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	☒ Yes	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	☒ No	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	☒ No	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	☒ No	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	☒ Yes	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	☒ Yes	No	N/A	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	☒ Yes	No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	☒ Yes	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	☒ No	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	☒ N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	☒ N/A	1	2	3	4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

Fourth Quarter 2024 Groundwater



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

November 15, 2024

Tom Cammarata
Sound Earth Strategies
1011 SW Klickitat Way, Suite 212
Seattle, WA 98134

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2410-335

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on October 24, 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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

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: November 15, 2024
Samples Submitted: October 24, 2024
Laboratory Reference: 2410-335
Project: 0651-002

Case Narrative

Samples were collected on October 24, 2024 and received by the laboratory on October 24, 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.

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.



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW21-20241024						
Laboratory ID: 10-335-04						
Vinyl Chloride	ND	0.20	EPA 8260D	10-25-24	10-25-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
(cis) 1,2-Dichloroethene	0.60	0.20	EPA 8260D	10-25-24	10-25-24	
Trichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	68-133				
<i>Toluene-d8</i>	97	79-123				
<i>4-Bromofluorobenzene</i>	93	78-117				

Client ID: MW30-20241024						
Laboratory ID: 10-335-05						
Vinyl Chloride	ND	0.20	EPA 8260D	10-25-24	10-25-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
Trichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	101	68-133				
<i>Toluene-d8</i>	99	79-123				
<i>4-Bromofluorobenzene</i>	89	78-117				

Client ID: MW33-20241024						
Laboratory ID: 10-335-06						
Vinyl Chloride	ND	0.20	EPA 8260D	10-25-24	10-25-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
Trichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	68-133				
<i>Toluene-d8</i>	97	79-123				
<i>4-Bromofluorobenzene</i>	91	78-117				



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW34-20241024						
Laboratory ID: 10-335-07						
Vinyl Chloride	1.1	0.20	EPA 8260D	10-25-24	10-25-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
(cis) 1,2-Dichloroethene	0.96	0.20	EPA 8260D	10-25-24	10-25-24	
Trichloroethene	0.21	0.20	EPA 8260D	10-25-24	10-25-24	
Tetrachloroethene	0.33	0.20	EPA 8260D	10-25-24	10-25-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	68-133				
<i>Toluene-d8</i>	99	79-123				
<i>4-Bromofluorobenzene</i>	91	78-117				

Client ID: MW29-20241024						
Laboratory ID: 10-335-08						
Vinyl Chloride	ND	0.20	EPA 8260D	10-25-24	10-25-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
Trichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	68-133				
<i>Toluene-d8</i>	98	79-123				
<i>4-Bromofluorobenzene</i>	90	78-117				



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1025W1					
Vinyl Chloride	ND	0.20	EPA 8260D	10-25-24	10-25-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
Trichloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-25-24	10-25-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>78-117</i>				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-327-01										
	MS	MSD	MS	MSD		MS	MSD				
Vinyl Chloride	8.45	8.49	10.0	10.0	ND	85	85	62-121	0	15	
(trans) 1,2-Dichloroethene	8.60	8.70	10.0	10.0	ND	86	87	79-120	1	16	
(cis) 1,2-Dichloroethene	8.35	8.50	10.0	10.0	ND	84	85	81-128	2	16	
Trichloroethene	8.96	8.83	10.0	10.0	ND	90	88	80-130	1	12	
Tetrachloroethene	10.9	10.7	10.0	10.0	ND	109	107	84-126	2	19	
Surrogate:											
Dibromofluoromethane						98	100	68-133			
Toluene-d8						98	97	79-123			
4-Bromofluorobenzene						92	92	78-117			



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

**DISSOLVED GASES
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW11-20241024					
Laboratory ID:	10-335-01					
Methane	ND	0.55	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	ND	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>101</i>	<i>50-150</i>				

Client ID:	MW13-20241024					
Laboratory ID:	10-335-02					
Methane	25	0.55	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	ND	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>90</i>	<i>50-150</i>				

Client ID:	MW19-20241024					
Laboratory ID:	10-335-03					
Methane	100	0.55	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	ND	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>95</i>	<i>50-150</i>				

Client ID:	MW21-20241024					
Laboratory ID:	10-335-04					
Methane	5700	55	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	ND	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>89</i>	<i>50-150</i>				

Client ID:	MW34-20241024					
Laboratory ID:	10-335-07					
Methane	940	5.5	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	1.6	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>95</i>	<i>50-150</i>				



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

**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:	MB1031W1					
Methane	ND	0.55	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	ND	0.58	RSK 175	10-31-24	10-31-24	
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:	SB1031W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	47.0	44.9	44.2	44.2	106	102	75-125	5	25	
Ethane	88.6	84.7	83.2	83.2	106	102	75-125	5	25	
Ethene	82.7	79.6	77.7	77.7	106	102	75-125	4	25	
Surrogate:										
1-Butene					101	97	50-150			



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW11-20241024					
Laboratory ID:	10-335-01					
Sulfate	72	20	ASTM D516-11	10-25-24	10-25-24	

Client ID:	MW13-20241024					
Laboratory ID:	10-335-02					
Sulfate	30	10	ASTM D516-11	10-25-24	10-25-24	

Client ID:	MW19-20241024					
Laboratory ID:	10-335-03					
Sulfate	35	10	ASTM D516-11	10-25-24	10-25-24	

Client ID:	MW21-20241024					
Laboratory ID:	10-335-04					
Sulfate	ND	5.0	ASTM D516-11	10-25-24	10-25-24	

Client ID:	MW34-20241024					
Laboratory ID:	10-335-07					
Sulfate	48	10	ASTM D516-11	10-25-24	10-25-24	



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water

Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1025W1					
Sulfate	ND	5.0	ASTM D516-11	10-25-24	10-25-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-295-02							
	ORIG	DUP						
Sulfate	6.79	6.50	NA	NA	NA	NA	4	11

MATRIX SPIKE

Laboratory ID:	10-295-02							
	MS	MS		MS				
Sulfate	26.0	20.0	6.79	96	69-134	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1025W1							
	SB	SB		SB				
Sulfate	8.34	10.0	NA	83	81-106	NA	NA	



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW11-20241024					
Laboratory ID:	10-335-01					
Chloride	6.1	2.0	SM 4500-Cl E	10-28-24	10-28-24	

Client ID:	MW13-20241024					
Laboratory ID:	10-335-02					
Chloride	6.9	2.0	SM 4500-Cl E	10-28-24	10-28-24	

Client ID:	MW19-20241024					
Laboratory ID:	10-335-03					
Chloride	99	2.0	SM 4500-Cl E	10-28-24	10-28-24	

Client ID:	MW21-20241024					
Laboratory ID:	10-335-04					
Chloride	80	2.0	SM 4500-Cl E	10-28-24	10-28-24	

Client ID:	MW34-20241024					
Laboratory ID:	10-335-07					
Chloride	8.6	2.0	SM 4500-Cl E	10-28-24	10-28-24	



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

**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:	MB1028W1					
Chloride	ND	2.0	SM 4500-Cl E	10-28-24	10-28-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-335-01							
	ORIG	DUP						
Chloride	6.05	5.48	NA	NA	NA	NA	10	21

MATRIX SPIKE

Laboratory ID:	10-335-01							
	MS	MS		MS				
Chloride	62.5	50.0	6.05	113	81-115	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1028W1							
	SB	SB		SB				
Chloride	53.4	50.0	NA	107	77-115	NA	NA	



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW11-20241024					
Laboratory ID:	10-335-01					
Nitrate	0.72	0.050	EPA 353.2	10-25-24	10-25-24	

Client ID:	MW13-20241024					
Laboratory ID:	10-335-02					
Nitrate	ND	0.050	EPA 353.2	10-25-24	10-25-24	

Client ID:	MW19-20241024					
Laboratory ID:	10-335-03					
Nitrate	1.5	0.050	EPA 353.2	10-25-24	10-25-24	

Client ID:	MW21-20241024					
Laboratory ID:	10-335-04					
Nitrate	0.25	0.050	EPA 353.2	10-25-24	10-25-24	

Client ID:	MW34-20241024					
Laboratory ID:	10-335-07					
Nitrate	ND	0.050	EPA 353.2	10-25-24	10-25-24	



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

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:	MB1025W1					
Nitrate	ND	0.050	EPA 353.2	10-25-24	10-25-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-335-02							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	22	

MATRIX SPIKE

Laboratory ID:	10-335-02							
	MS	MS		MS				
Nitrate	1.96	2.00	ND	98	86-119	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1025W1							
	SB	SB		SB				
Nitrate	2.22	2.00	NA	111	85-117	NA	NA	



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW11-20241024					
Laboratory ID:	10-335-01					
Total Organic Carbon	20	1.0	SM 5310B	10-29-24	10-29-24	

Client ID:	MW13-20241024					
Laboratory ID:	10-335-02					
Total Organic Carbon	ND	1.0	SM 5310B	10-29-24	10-29-24	

Client ID:	MW19-20241024					
Laboratory ID:	10-335-03					
Total Organic Carbon	1.7	1.0	SM 5310B	10-29-24	10-29-24	

Client ID:	MW21-20241024					
Laboratory ID:	10-335-04					
Total Organic Carbon	230	10	SM 5310B	10.31-24	10.31-24	

Client ID:	MW34-20241024					
Laboratory ID:	10-335-07					
Total Organic Carbon	2.0	1.0	SM 5310B	10.31-24	10.31-24	



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

**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:	MB1029W2					
Total Organic Carbon	ND	1.0	SM 5310B	10-29-24	10-29-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-335-02							
	ORIG	DUP						
Total Organic Carbon	ND	ND	NA	NA	NA	NA	11	

MATRIX SPIKE

Laboratory ID:	10-335-02							
	MS	MS		MS				
Total Organic Carbon	11.6	10.0	ND	116	85-120	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1029W2							
	SB	SB		SB				
Total Organic Carbon	11.1	10.0	NA	111	79-120	NA	NA	



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

**TOTAL METALS
 EPA 200.7**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW11-20241024						
Laboratory ID: 10-335-01						
Iron	2000	50	EPA 200.7	10-29-24	10-29-24	
Manganese	190	10	EPA 200.7	10-29-24	10-29-24	

Client ID: MW13-20241024						
Laboratory ID: 10-335-02						
Iron	1200	50	EPA 200.7	10-29-24	10-29-24	
Manganese	440	10	EPA 200.7	10-29-24	10-29-24	

Client ID: MW19-20241024						
Laboratory ID: 10-335-03						
Iron	400	50	EPA 200.7	10-29-24	10-29-24	
Manganese	600	10	EPA 200.7	10-29-24	10-29-24	

Client ID: MW21-20241024						
Laboratory ID: 10-335-04						
Iron	42000	500	EPA 200.7	10-29-24	10-29-24	
Manganese	1100	10	EPA 200.7	10-29-24	10-29-24	

Client ID: MW34-20241024						
Laboratory ID: 10-335-07						
Iron	2100	50	EPA 200.7	10-29-24	10-29-24	
Manganese	140	10	EPA 200.7	10-29-24	10-29-24	



Date of Report: November 15, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-335
 Project: 0651-002

**TOTAL METALS
 EPA 200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1029WH1					
Iron	ND	50	EPA 200.7	10-29-24	10-29-24	
Manganese	ND	10	EPA 200.7	10-29-24	10-29-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-198-02							
	ORIG	DUP						
Iron	137	146	NA	NA	NA	NA	6	20
Manganese	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	10-198-02									
	MS	MSD	MS	MSD		MS	MSD			
Iron	19100	19100	20000	20000	137	95	95	75-125	0	20
Manganese	496	504	500	500	ND	99	101	75-125	1	20





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





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: The Hearthstone, 0651-002

Work Order Number: 2410489

October 31, 2024

Attention David Baumeister:

Fremont Analytical, Inc, an Alliance Technical Group company, received 5 sample(s) on 10/24/2024 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original



www.fremontanalytical.com



Date: 10/31/2024

CLIENT: OnSite Environmental Inc
Project: The Hearthstone
Work Order: 2410489

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2410489-001	MW11-20241024	10/24/2024 9:55 AM	10/24/2024 4:00 PM
2410489-002	MW13-20241024	10/24/2024 11:00 AM	10/24/2024 4:00 PM
2410489-003	MW19-20241024	10/24/2024 11:40 AM	10/24/2024 4:00 PM
2410489-004	MW21-20241024	10/24/2024 2:25 PM	10/24/2024 4:00 PM
2410489-005	MW34-20241024	10/24/2024 2:05 PM	10/24/2024 4:00 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: OnSite Environmental Inc

Project: The Hearthstone

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: The Hearthstone

Lab ID: 2410489-001

Client Sample ID: MW11-20241024

Collection Date: 10/24/2024 9:55:00 AM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B

Batch ID: R95241 Analyst: JH

Ferrous Iron	0.538	0.150		mg/L	1	10/25/2024 8:30:30 AM
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Lab ID: 2410489-002

Client Sample ID: MW13-20241024

Collection Date: 10/24/2024 11:00:00 AM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B

Batch ID: R95241 Analyst: JH

Ferrous Iron	1.38	0.150		mg/L	1	10/25/2024 8:30:30 AM
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Lab ID: 2410489-003

Client Sample ID: MW19-20241024

Collection Date: 10/24/2024 11:40:00 AM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B

Batch ID: R95241 Analyst: JH

Ferrous Iron	0.201	0.150		mg/L	1	10/25/2024 8:30:30 AM
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Lab ID: 2410489-004

Client Sample ID: MW21-20241024

Collection Date: 10/24/2024 2:25:00 PM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B

Batch ID: R95241 Analyst: JH

Ferrous Iron	49.1	3.75	D	mg/L	25	10/25/2024 8:30:30 AM
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Analytical Report

Work Order: 2410489
Date Reported: 10/31/2024

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2410489-005
Client Sample ID: MW34-20241024

Collection Date: 10/24/2024 2:05:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ferrous Iron by SM3500-Fe B

Batch ID: R95241 Analyst: JH

Ferrous Iron	0.239	0.150		mg/L	1	10/25/2024 8:30:30 AM
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Work Order: 2410489
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R95241	SampType: MBLK	Units: mg/L		Prep Date: 10/25/2024	RunNo: 95241							
Client ID: MBLKW	Batch ID: R95241			Analysis Date: 10/25/2024	SeqNo: 1987854							
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-R95241	SampType: LCS	Units: mg/L		Prep Date: 10/25/2024	RunNo: 95241							
Client ID: LCSW	Batch ID: R95241			Analysis Date: 10/25/2024	SeqNo: 1987855							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.358	0.150	0.4000	0	89.4	85	115					

Sample ID: 2410483-002CDUP	SampType: DUP	Units: mg/L		Prep Date: 10/25/2024	RunNo: 95241							
Client ID: BATCH	Batch ID: R95241			Analysis Date: 10/25/2024	SeqNo: 1987858							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.703	0.150						0.7351	4.44	20	H	

Sample ID: 2410483-002CMS	SampType: MS	Units: mg/L		Prep Date: 10/25/2024	RunNo: 95241							
Client ID: BATCH	Batch ID: R95241			Analysis Date: 10/25/2024	SeqNo: 1987859							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	1.11	0.150	0.4000	0.7351	94.3	70	130				H	

Sample ID: 2410483-002CMSD	SampType: MSD	Units: mg/L		Prep Date: 10/25/2024	RunNo: 95241							
Client ID: BATCH	Batch ID: R95241			Analysis Date: 10/25/2024	SeqNo: 1987860							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	1.05	0.150	0.4000	0.7351	79.8	70	130	1.112	5.36	30	H	

Work Order: 2410489
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: 2410483-011CDUP	SampType: DUP	Units: mg/L			Prep Date: 10/25/2024			RunNo: 95241			
Client ID: BATCH	Batch ID: R95241				Analysis Date: 10/25/2024			SeqNo: 1987872			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron	ND	0.150						0		20	H
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Sample ID: 2410483-011CMS	SampType: MS	Units: mg/L			Prep Date: 10/25/2024			RunNo: 95241			
Client ID: BATCH	Batch ID: R95241				Analysis Date: 10/25/2024			SeqNo: 1987873			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron	0.448	0.150	0.4000	0.06760	95.0	70	130				H
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Client Name: ONSITE

Work Order Number: 2410489

Logged by: Morgan Wilson

Date Received: 10/24/2024 4:00:00 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 °C
Sample	5.5

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Chain of Custody

Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98062
 Phone: (425) 883-3881 • www.onsite-env.com

Company: SoundEarth Strategies

Project Number: 0651-002

Project Name: The Hearthstone

Project Manager: Tom Cammarata

Sampled by: Linnea Coleman

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
	MW11-20241024	10/24/24	0955	
	MW13-20241024		1100	
	MW19-20241024		1140	
	MW21-20241024		1425	
	MW34-20241024		1405	

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Signature: *Linnea Coleman*

Company: Sound Earth

Date: 10/24/24

Time: 1537

Laboratory Number:

Number of Containers	CVOCs	Dissolved Gases (Methane, Ethane, Ethene) by RSK-175	Sulfate, Chloride, Nitrate	TOC by SM 310B	Total Mn and Total Fe by EPA 200.8	Volatile Organic Fatty Acids	Ferrous Iron	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
							X							
							X							
							X							
							X							
							X							

Comments/Special Instructions:

Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC

Analyze samples at the lowest dilution possible.

Send lab reports to Tom & Linnea

David @ OnSite

Reviewed/Date:

Reviewed/Date:

Analytical Results

SiREM File Reference: S-10787

Client: OnSite Environmental Inc.
Client Project Number: 0651-002
Date Samples Received: October 30, 2024
Date Samples Analyzed: November 4, 2024

Client Sample ID	SiREM Reference ID	Client Sample Date	Sample Dilution Factor	Lactate	Acetate	Propionate	Formate	Butyrate	Pyruvate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW11-20241024	24-20048	24-Oct-24	50x	1.3 J	0.93 J	<0.30	0.63 J	<0.15	<0.75
MW13-20241024	24-20049	24-Oct-24	50x	1.2 J	0.59 J	<0.30	0.65 J	<0.15	<0.75
MW19-20241024	24-20050	24-Oct-24	50x	1.3 J	0.67 J	<0.30	0.67 J	<0.15	<0.75
MW21-20241024	24-20051	24-Oct-24	50x	<0.50	71	119	1.3 J	21	<0.75
MW34-20241024	24-20052	24-Oct-24	50x	1.2 J	0.83 J	<0.30	0.65 J	<0.15	<0.75
QL				50	0.50	0.50	0.30	0.30	0.15
RL				50	2.0	2.0	2.0	2.0	2.0

Comments:

Method: Ion Chromatography with Electrical Conductivity Detection
J = the associated value is an estimated result between the QL and the RL
QL = Quantitation Limit
RL = Reporting Limit
mg/L = milligram per liter
< = compound analyzed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst:

Brooke Rapien

Brooke Rapien, B.Sc.
Laboratory Technician II

Results approved:

Kela Ashworth

Kela Ashworth, B.Sc.
Scientist

Date:

November 15, 2024



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

Laboratory: SiREM Laboratory

Attention: Ximena Druan

Address: 180A Market Place Blvd.

Address: Knoxville, TN 37922

Phone Number: (865) 330-0037

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Laboratory Reference #: 10-335

Project Manager: David Baumeister

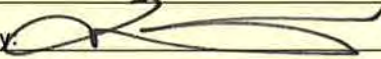
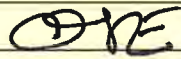
email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name: _____

Page 1 of 1

S-10787

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW11-20241024	10/24/24	0955	H2O	3	Volatile Organic Fatty Acids ✓
	MW13-20241024	10/24/24	1100	H2O	3	Volatile Organic Fatty Acids ✓
	MW19-20241024	10/24/24	1140	H2O	3	Volatile Organic Fatty Acids ✓
	MW21-20241024	10/24/24	1425	H2O	3	Volatile Organic Fatty Acids ✓
	MW34-20241024	10/24/24	1405	H2O	3	Volatile Organic Fatty Acids ✓
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by: 		 UPS		10/29/24	1600	 2.9°C (KX00238)
Received by:		UPS				
Relinquished by:		SiREM		10/30/24	1027	
Received by: 						
Relinquished by:						
Received by:						



Phone Number: (865) 330-0037

COPY

S-10787

Laboratory Reference #: 10-335

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name:

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
MW11-20241024		10/24/24	0955	H2O	3	Volatile Organic Fatty Acids
MW13-20241024		10/24/24	1100	H2O	3	Volatile Organic Fatty Acids
MW19-20241024		10/24/24	1140	H2O	3	Volatile Organic Fatty Acids
MW21-20241024		10/24/24	1425	H2O	3	Volatile Organic Fatty Acids
MW34-20241024		10/24/24	1405	H2O	3	Volatile Organic Fatty Acids

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: [Signature]	DVE UPS	10/29/24	1600	EIM 29°C (KX00238) IS.8 °C 0078
Received by:	UPS			
Relinquished by:	SIREM	10/30/24	1027	
Received by: K. Machuga	SIREM	10/30/24	1100	
Relinquished by: K. Crachiale	SIREM	31/10/24	3:00 PM	

Chain of Custody

Company: SoundEarth Strategies		Turnaround Request (in working days)		Laboratory Number: 10-335											
Project Number: 0651-002		☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ Standard (7 Days)													
Project Name: The Hearthstone		☐ (other)													
Project Manager: Tom Cammarata															
Sampled by: Linnea Coleman															
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers										
1	MW11-20241024	10/24/24	0955	H ₂ O	8										
2	MW13-20241024		1100		8										
3	MW19-20241024		1140		8										
4	MW21-20241024		1425		11										
5	MW30-20241024		1240		3										
6	MW33-20241024		1320		3										
7	MW34-20241024		1405		11										
8	MW29-20241024		1525		3										
		1600													
		10/24/24													
Signature		Company		Date	Time	Comments/Special Instructions									
Relinquished		Sound Earth		10/24/24	1538	Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC									
Received		ACAH		10/24/24	1530	Analyze samples at the lowest dilution possible.									
Relinquished		ALPH		10/24/24	1712	Send lab reports to Tom & Linnea									
Received		JTE				Data Package: Standard ☐ Level III ☐ Level IV ☐									
Reviewed/Dat-		Reviewed/Date		Chromatograms with final report ☐ Electronic Data Deliver ☐ (EDDs) ☐											

Sample/Cooler Receipt and Acceptance Checklist

Client: SES
 Client Project Name/Number: 0651-002
 OnSite Project Number: 10-335

Initiated by: AMV
 Date Initiated: 10/24/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	☒ No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	☒ N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	☒ N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	☒ Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	☒ Yes	No	N/A	Temperature: <u>5</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	☒ N/A					
1.7 How were the samples delivered?	Client	☒ Courier	UPS/FedEx	OSE Pickup	Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	☒ Yes	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	☒ Yes	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	☒ Yes	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	☒ Yes	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	☒ Yes	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	☒ No	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	☒ No	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	☒ No	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	☒ Yes	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	☒ Yes	No	N/A	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	☒ Yes	No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	☒ Yes	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	☒ No	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	☒ N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	☒ N/A	1	2	3	4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed



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

October 29, 2024

Tom Cammarata
Sound Earth Strategies
1011 SW Klickitat Way, Suite 212
Seattle, WA 98134

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2410-337

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on October 24, 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,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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 29, 2024
Samples Submitted: October 24, 2024
Laboratory Reference: 2410-337
Project: 0651-002

Case Narrative

Samples were collected on October 24, 2024 and received by the laboratory on October 24, 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.

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

Some MTCA Method A cleanup levels are not achievable for sample IW34-20241024L due to the necessary dilution of the sample.

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.



Date of Report: October 29, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-337
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		IW34-20241024L				
Laboratory ID:		10-337-01				
Vinyl Chloride	4400	100	EPA 8260D	10-28-24	10-28-24	
(trans) 1,2-Dichloroethene	340	100	EPA 8260D	10-28-24	10-28-24	
(cis) 1,2-Dichloroethene	16000	100	EPA 8260D	10-28-24	10-28-24	
Trichloroethene	ND	100	EPA 8260D	10-28-24	10-28-24	
Tetrachloroethene	ND	100	EPA 8260D	10-28-24	10-28-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	68-133				
<i>Toluene-d8</i>	100	79-123				
<i>4-Bromofluorobenzene</i>	98	78-117				



Date of Report: October 29, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-337
 Project: 0651-002

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1028W1					
Vinyl Chloride	ND	0.20	EPA 8260D	10-28-24	10-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
Trichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	68-133				
<i>Toluene-d8</i>	102	79-123				
<i>4-Bromofluorobenzene</i>	99	78-117				

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB1028W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	10.6	11.1	10.0	10.0	106	111	67-130	5	15	
(trans) 1,2-Dichloroethene	10.2	10.4	10.0	10.0	102	104	77-125	2	15	
(cis) 1,2-Dichloroethene	10.4	10.6	10.0	10.0	104	106	78-130	2	15	
Trichloroethene	10.8	10.4	10.0	10.0	108	104	80-126	4	15	
Tetrachloroethene	10.5	10.7	10.0	10.0	105	107	80-125	2	15	
Surrogate:										
Dibromofluoromethane					96	97	68-133			
Toluene-d8					102	100	79-123			
4-Bromofluorobenzene					100	102	78-117			





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





Onsite Environmental Inc.

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

Chain of Custody

Page 1 of 1

Turnaround Request
(in working days)

Laboratory Number: **10-337**

Company: **SoundEarth Strategies**

Project Number: **0651-002**

Project Name: **The Hearthstone**

Project Manager: **Tom Cammarata**

Sampled by: **Linnea Coleman**

(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

CVOCs
Dissolved Gases (Methane, Ethane, Ethene) by RSK-175
Sulfate, Chloride, Nitrate
TOC by SM 310B
Total Mn and Total Fe by EPA 200.8
Volatile Organic Fatty Acids
Ferrous Iron

Organophosphorus Pesticides 8270/SIM
Chlorinated Acid Herbicides 8151
Total RCRA Metals
Total MTCA Metals
TCLP Metals
HEM (oil and grease) 1664

% Moisture

EW34-20241024L

10/24/24 1220 H2O 3

X

Lic 10/24/24

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished

Linnea Coleman

Sound Earth

10/24/24 1539

Received

Linnea Coleman

AC449

10/24/24 1539

Relinquished

Linnea Coleman

AC449

10/24/24 1712

Received

Linnea Coleman

AC449

10/24/24 1712

Relinquished

Linnea Coleman

AC449

10/24/24 1712

Received

Linnea Coleman

AC449

10/24/24 1712

Reviewed/De-

Reviewed/Date

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

Send lab reports to Tom & Linnea

Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC
Analyze samples at the lowest dilution possible.

Sample/Cooler Receipt and Acceptance Checklist

Client: SES
 Client Project Name/Number: 0657-002
 OnSite Project Number: 10-337

Initiated by: MM
 Date Initiated: 10/24/04

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<u>No</u>	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	<u>N/A</u>	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<u>N/A</u>	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	<u>Yes</u>	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	<u>Yes</u>	No	N/A	Temperature: <u>5</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<u>N/A</u>					
1.7 How were the samples delivered?	Client	<u>Courier</u>	UPS/FedEx	OSE Pickup	Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<u>Yes</u>	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	<u>Yes</u>	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	<u>Yes</u>	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<u>Yes</u>	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	<u>Yes</u>	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<u>No</u>	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<u>No</u>	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	<u>No</u>	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	<u>Yes</u>	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	<u>Yes</u>	No	N/A	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	<u>No</u>	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	<u>Yes</u>	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<u>No</u>	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	<u>N/A</u>	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	<u>N/A</u>	1	2	3	4	

Explain any discrepancies:

<u>3.5) 1 vial w/ bubble</u>

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed



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

November 4, 2024

Tom Cammarata
Sound Earth Strategies
1011 SW Klickitat Way, Suite 212
Seattle, WA 98134

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2410-338

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on October 24, 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,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

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: November 4, 2024
Samples Submitted: October 24, 2024
Laboratory Reference: 2410-338
Project: 0651-002

Case Narrative

Samples were collected on October 23, 2024 and received by the laboratory on October 24, 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.

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.



Date of Report: November 4, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-338
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW07-20241023						
Laboratory ID: 10-338-01						
Vinyl Chloride	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	1.1	0.20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	68-133				
<i>Toluene-d8</i>	101	79-123				
<i>4-Bromofluorobenzene</i>	95	78-117				

Client ID: IW08-20241023						
Laboratory ID: 10-338-02						
Vinyl Chloride	1.5	0.40	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	46	0.40	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	0.84	0.40	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	1.6	0.40	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	68-133				
<i>Toluene-d8</i>	101	79-123				
<i>4-Bromofluorobenzene</i>	97	78-117				

Client ID: IW16-20241023						
Laboratory ID: 10-338-03						
Vinyl Chloride	2.3	0.20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	2.8	0.20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	0.42	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	0.52	0.20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	68-133				
<i>Toluene-d8</i>	100	79-123				
<i>4-Bromofluorobenzene</i>	98	78-117				



Date of Report: November 4, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-338
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW21-20241023						
Laboratory ID: 10-338-04						
Vinyl Chloride	7.0	0.20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	1.5	0.20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	0.23	0.20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	68-133				
<i>Toluene-d8</i>	101	79-123				
<i>4-Bromofluorobenzene</i>	102	78-117				

Client ID: IW22-20241023						
Laboratory ID: 10-338-05						
Vinyl Chloride	4.9	0.20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	6.2	0.20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	68-133				
<i>Toluene-d8</i>	100	79-123				
<i>4-Bromofluorobenzene</i>	99	78-117				

Client ID: IW55-20241023						
Laboratory ID: 10-338-06						
Vinyl Chloride	0.89	0.20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	0.92	0.20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	100	68-133				
<i>Toluene-d8</i>	101	79-123				
<i>4-Bromofluorobenzene</i>	100	78-117				



Date of Report: November 4, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-338
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW57-20241023						
Laboratory ID: 10-338-07						
Vinyl Chloride	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-117</i>				

Client ID: IW59-20241023						
Laboratory ID: 10-338-08						
Vinyl Chloride	18	0.20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	7.7	0.20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-117</i>				

Client ID: IW60-20241023						
Laboratory ID: 10-338-09						
Vinyl Chloride	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-117</i>				



Date of Report: November 4, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-338
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW61-20241023						
Laboratory ID: 10-338-10						
Vinyl Chloride	67	0.40	EPA 8260D	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	33	0.20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-117</i>				

Client ID: IW31-20241024						
Laboratory ID: 10-338-11						
Vinyl Chloride	0.53	0.20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	5.6	0.20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-117</i>				

Client ID: IW32-20241024						
Laboratory ID: 10-338-12						
Vinyl Chloride	1300	20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	2900	20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	ND	20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-117</i>				



Date of Report: November 4, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-338
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: IW33-20241024						
Laboratory ID: 10-338-13						
Vinyl Chloride	15	0.20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	0.80	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	74	0.40	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	0.56	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	0.63	0.20	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	68-133				
<i>Toluene-d8</i>	99	79-123				
<i>4-Bromofluorobenzene</i>	101	78-117				

Client ID: IW34-20241024						
Laboratory ID: 10-338-14						
Vinyl Chloride	2900	40	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	160	40	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	8000	40	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	40	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	ND	40	EPA 8260D	10-29-24	10-29-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	77	68-133				
<i>Toluene-d8</i>	100	79-123				
<i>4-Bromofluorobenzene</i>	89	78-117				



Date of Report: November 4, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-338
 Project: 0651-002

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1029W1					
Vinyl Chloride	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Trichloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-29-24	10-29-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	94	68-133				
Toluene-d8	101	79-123				
4-Bromofluorobenzene	97	78-117				
Laboratory ID:	MB1030W1					
Vinyl Chloride	ND	0.20	EPA 8260D	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	95	68-133				
Toluene-d8	101	79-123				
4-Bromofluorobenzene	100	78-117				



Date of Report: November 4, 2024
 Samples Submitted: October 24, 2024
 Laboratory Reference: 2410-338
 Project: 0651-002

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1029W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	11.2	10.8	10.0	10.0	112	108	67-130	4	15	
(trans) 1,2-Dichloroethene	10.6	10.7	10.0	10.0	106	107	77-125	1	15	
(cis) 1,2-Dichloroethene	10.8	10.9	10.0	10.0	108	109	78-130	1	15	
Trichloroethene	11.2	11.2	10.0	10.0	112	112	80-126	0	15	
Tetrachloroethene	11.0	11.3	10.0	10.0	110	113	80-125	3	15	
Surrogate:										
Dibromofluoromethane					95	95	68-133			
Toluene-d8					101	101	79-123			
4-Bromofluorobenzene					100	99	78-117			
Laboratory ID:	SB1030W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	10.9	10.6	10.0	10.0	109	106	67-130	3	15	
(trans) 1,2-Dichloroethene	10.7	10.3	10.0	10.0	107	103	77-125	4	15	
(cis) 1,2-Dichloroethene	11.0	10.8	10.0	10.0	110	108	78-130	2	15	
Trichloroethene	11.6	11.0	10.0	10.0	116	110	80-126	5	15	
Tetrachloroethene	11.4	11.0	10.0	10.0	114	110	80-125	4	15	
Surrogate:										
Dibromofluoromethane					94	95	68-133			
Toluene-d8					99	100	79-123			
4-Bromofluorobenzene					103	101	78-117			





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





Onsite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
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Chain of Custody

Company: SoundEarth Strategies		Turnaround Request (in working days) (Check One) ☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ Standard (7 Days)		Laboratory Number: 10-338												
Project Number: 0651-002																
Project Name: The Hearthstone																
Project Manager: Tom Cammarata																
Sampled by: Linnea Coleman		☐ (other)														
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers		Laboratory Tests									
1	IW007-20241023	10/23/24	1355	H ₂ O	3	X	CVOCs									
2	IW008-20241023		1405		3	X	Dissolved Gases (Methane, Ethane, Ethene) by RSK-175									
3	IW16-20241023		1425		3	X	Sulfate, Chloride, Nitrate									
4	IW21-20241023		1435		3	X	TOC by SM 310B									
5	IW22-20241023		1445		3	X	Total Mn and Total Fe by EPA 200.8									
6	IW55-20241023		1510		3	X	Volatile Organic Fatty Acids									
7	IW57-20241023		1515		3	X	Ferrous Iron									
8	IW59-20241023		1525		3	X	Organophosphorus Pesticides 8270/SIM									
9	IW60-20241023		1550		3	X	Chlorinated Acid Herbicides 8151									
10	IW61-20241023		1540		3	X	Total RCRA Metals									
Signature		Company		Date	Time	Comments/Special Instructions										
[Signature]		SoundEarth		10/24/24	1540	Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC										
[Signature]		ALPHA		10/24/24	1540	Analyze samples at the lowest dilution possible.										
[Signature]		ALPHA		10/24/24	1712	Send lab reports to Tom & Linnea										
Received				Data Package: Standard ☐ Level III ☐ Level IV ☐												
Reviewed/Date				Chromatograms with final report ☐ Electronic Data Deliver ☐ (EDDs) ☐												



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Chain of Custody

Page 2 of 2

Company: SoundEarth Strategies		Turnaround Request (in working days)		Laboratory Number: 10-338													
Project Number: 0651-002		☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ Standard (7 Days)															
Project Name: The Hearthstone		☐ (other)															
Project Manager: Tom Cammarata																	
Sampled by: Linnea Coleman																	
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers												
11	IW31-20241024	10/24/24	1025	420	3	X	CVOCs										
12	IW32-20241024		1035		3	X	Dissolved Gases (Methane, Ethane, Ethene) by RSK-175										
13	IW33-20241024		1055		3	X	Sulfate, Chloride, Nitrate										
14	IW34-20241024		1110		3	X	TOC by SM 310B										
							Total Mn and Total Fe by EPA 200.8										
							Volatile Organic Fatty Acids										
							Ferrous Iron										
							Organophosphorus Pesticides 8270/SIM										
							Chlorinated Acid Herbicides 8151										
							Total RCRA Metals										
							Total MTCA Metals										
							TCLP Metals										
							HEM (oil and grease) 1664										
							% Moisture										
Signature		Company		Date	Time	Comments/Special Instructions											
Relinquished		Sound Earth		10/24/24	1540	Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC											
Received		ALPHA		10/24/24	1540	Analyze samples at the lowest dilution possible.											
Relinquished		ALPHA		10/24/24	1712	Send lab reports to Tom & Linnea											
Received						Data Package: Standard ☐ Level III ☐ Level IV ☐											
Reviewed/Date		Reviewed/Date		Chromatograms with final report ☐ Electronic Data Deliver (EDS) ☐													

Sample/Cooler Receipt and Acceptance Checklist

Client: SES

Client Project Name/Number: 0651-002

OnSite Project Number: 10-338

Initiated by: MM

Date Initiated: 10/24/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<u>No</u>	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	<u>N/A</u>	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<u>N/A</u>	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	<u>Yes</u>	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	<u>Yes</u>	No	N/A	Temperature: <u>5</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<u>N/A</u>					
1.7 How were the samples delivered?	Client	<u>Courier</u>	UPS/FedEx	OSE Pickup	Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<u>Yes</u>	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	<u>Yes</u>	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	<u>Yes</u>	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<u>Yes</u>	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	<u>Yes</u>	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<u>No</u>	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<u>No</u>	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	<u>No</u>	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	<u>Yes</u>	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	<u>Yes</u>	No	N/A	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	<u>Yes</u>	No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	<u>Yes</u>	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<u>No</u>	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	<u>N/A</u>	1	2	3	4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed



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

November 15, 2024

Tom Cammarata
Sound Earth Strategies
1011 SW Klickitat Way, Suite 212
Seattle, WA 98134

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2410-347

Dear Tom:

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

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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: November 15, 2024
Samples Submitted: October 25, 2024
Laboratory Reference: 2410-347
Project: 0651-002

Case Narrative

Samples were collected on October 24 and 25, 2024 and received by the laboratory on October 25, 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.

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.



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW36-20241024						
Laboratory ID: 10-347-01						
Vinyl Chloride	ND	0.20	EPA 8260D	10-28-24	10-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
Trichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-117</i>				

Client ID: MW06-20241025						
Laboratory ID: 10-347-02						
Vinyl Chloride	23	0.20	EPA 8260D	10-28-24	10-28-24	
(trans) 1,2-Dichloroethene	0.21	0.20	EPA 8260D	10-28-24	10-28-24	
(cis) 1,2-Dichloroethene	19	0.20	EPA 8260D	10-28-24	10-28-24	
Trichloroethene	1.8	0.20	EPA 8260D	10-28-24	10-28-24	
Tetrachloroethene	0.98	0.20	EPA 8260D	10-28-24	10-28-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-117</i>				

Client ID: MW27-20241025						
Laboratory ID: 10-347-03						
Vinyl Chloride	ND	0.20	EPA 8260D	10-28-24	10-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
Trichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-117</i>				



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW32-20241025						
Laboratory ID: 10-347-04						
Vinyl Chloride	ND	0.20	EPA 8260D	10-28-24	10-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
Trichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
Tetrachloroethene	0.39	0.20	EPA 8260D	10-28-24	10-28-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	68-133				
<i>Toluene-d8</i>	101	79-123				
<i>4-Bromofluorobenzene</i>	98	78-117				

Client ID: MW99-20241025						
Laboratory ID: 10-347-05						
Vinyl Chloride	13	0.20	EPA 8260D	10-28-24	10-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
(cis) 1,2-Dichloroethene	15	0.20	EPA 8260D	10-28-24	10-28-24	
Trichloroethene	1.4	0.20	EPA 8260D	10-28-24	10-28-24	
Tetrachloroethene	0.61	0.20	EPA 8260D	10-28-24	10-28-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	68-133				
<i>Toluene-d8</i>	102	79-123				
<i>4-Bromofluorobenzene</i>	96	78-117				



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1028W1					
Vinyl Chloride	ND	0.20	EPA 8260D	10-28-24	10-28-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
Trichloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-28-24	10-28-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	68-133				
<i>Toluene-d8</i>	102	79-123				
<i>4-Bromofluorobenzene</i>	99	78-117				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1028W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	10.6	11.1	10.0	10.0	106	111	67-130	5	15	
(trans) 1,2-Dichloroethene	10.2	10.4	10.0	10.0	102	104	77-125	2	15	
(cis) 1,2-Dichloroethene	10.4	10.6	10.0	10.0	104	106	78-130	2	15	
Trichloroethene	10.8	10.4	10.0	10.0	108	104	80-126	4	15	
Tetrachloroethene	10.5	10.7	10.0	10.0	105	107	80-125	2	15	
Surrogate:										
Dibromofluoromethane					96	97	68-133			
Toluene-d8					102	100	79-123			
4-Bromofluorobenzene					100	102	78-117			



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

DISSOLVED GASES
RSK 175

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW06-20241025					
Laboratory ID:	10-347-02					
Methane	3700	28	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	9.2	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>100</i>	<i>50-150</i>				

Client ID:	MW32-20241025					
Laboratory ID:	10-347-04					
Methane	400	3.3	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	0.84	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>99</i>	<i>50-150</i>				



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

**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:	MB1031W1					
Methane	ND	0.55	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	ND	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>108</i>	<i>50-150</i>				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB1031W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	47.0	44.9	44.2	44.2	106	102	75-125	5	25	
Ethane	88.6	84.7	83.2	83.2	106	102	75-125	5	25	
Ethene	82.7	79.6	77.7	77.7	106	102	75-125	4	25	
Surrogate:										
1-Butene					101	97	50-150			



Date of Report: November 15, 2024
Samples Submitted: October 25, 2024
Laboratory Reference: 2410-347
Project: 0651-002

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW06-20241025					
Laboratory ID:	10-347-02					
Sulfate	ND	5.0	ASTM D516-11	10-25-24	10-25-24	

Client ID:	MW32-20241025					
Laboratory ID:	10-347-04					
Sulfate	25	10	ASTM D516-11	10-25-24	10-25-24	



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water

Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1025W1					
Sulfate	ND	5.0	ASTM D516-11	10-25-24	10-25-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-295-02							
	ORIG	DUP						
Sulfate	6.79	6.50	NA	NA	NA	NA	4	11

MATRIX SPIKE

Laboratory ID:	10-295-02							
	MS	MS		MS				
Sulfate	26.0	20.0	6.79	96	69-134	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1025W1							
	SB	SB		SB				
Sulfate	8.34	10.0	NA	83	81-106	NA	NA	



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW06-20241025					
Laboratory ID:	10-347-02					
Chloride	51	2.0	SM 4500-Cl E	10-28-24	10-28-24	

Client ID:	MW32-20241025					
Laboratory ID:	10-347-04					
Chloride	10.0	2.0	SM 4500-Cl E	10-28-24	10-28-24	



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

**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:	MB1028W1					
Chloride	ND	2.0	SM 4500-Cl E	10-28-24	10-28-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-335-01							
	ORIG	DUP						
Chloride	6.05	5.48	NA	NA	NA	NA	10	21

MATRIX SPIKE

Laboratory ID:	10-335-01							
	MS	MS		MS				
Chloride	62.5	50.0	6.05	113	81-115	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1028W1							
	SB	SB		SB				
Chloride	53.4	50.0	NA	107	77-115	NA	NA	



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW06-20241025					
Laboratory ID:	10-347-02					
Nitrate	ND	0.050	EPA 353.2	10-25-24	10-25-24	

Client ID:	MW32-20241025					
Laboratory ID:	10-347-04					
Nitrate	ND	0.050	EPA 353.2	10-25-24	10-25-24	



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

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:	MB1025W1					
Nitrate	ND	0.050	EPA 353.2	10-25-24	10-25-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-335-02							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	22	

MATRIX SPIKE

Laboratory ID:	10-335-02							
	MS	MS		MS				
Nitrate	1.96	2.00	ND	98	86-119	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1025W1							
	SB	SB		SB				
Nitrate	2.22	2.00	NA	111	85-117	NA	NA	



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW06-20241025					
Laboratory ID:	10-347-02					
Total Organic Carbon	8.3	1.0	SM 5310B	10-29-24	10-29-24	

Client ID:	MW32-20241025					
Laboratory ID:	10-347-04					
Total Organic Carbon	1.6	1.0	SM 5310B	10-29-24	10-29-24	



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

**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:	MB1029W1					
Total Organic Carbon	ND	1.0	SM 5310B	10-29-24	10-29-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-298-06							
	ORIG	DUP						
Total Organic Carbon	16.7	16.7	NA	NA	NA	NA	0	11

MATRIX SPIKE

Laboratory ID:	10-298-06							
	MS	MS		MS				
Total Organic Carbon	26.5	10.0	16.7	98	85-120	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1029W1							
	SB	SB		SB				
Total Organic Carbon	9.28	10.0	NA	93	79-120	NA	NA	



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

**TOTAL METALS
 EPA 200.7**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW06-20241025						
Laboratory ID: 10-347-02						
Iron	4100	50	EPA 200.7	10-29-24	10-29-24	
Manganese	1400	10	EPA 200.7	10-29-24	10-29-24	

Client ID: MW32-20241025						
Laboratory ID: 10-347-04						
Iron	220	50	EPA 200.7	10-29-24	10-29-24	
Manganese	110	10	EPA 200.7	10-29-24	10-29-24	



Date of Report: November 15, 2024
 Samples Submitted: October 25, 2024
 Laboratory Reference: 2410-347
 Project: 0651-002

**TOTAL METALS
 EPA 200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1029WH1					
Iron	ND	50	EPA 200.7	10-29-24	10-29-24	
Manganese	ND	10	EPA 200.7	10-29-24	10-29-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-198-02							
	ORIG	DUP						
Iron	137	146	NA	NA	NA	NA	6	20
Manganese	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	10-198-02									
	MS	MSD	MS	MSD		MS	MSD			
Iron	19100	19100	20000	20000	137	95	95	75-125	0	20
Manganese	496	504	500	500	ND	99	101	75-125	1	20





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





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: The Hearthstones, 0651-002

Work Order Number: 2410506

October 31, 2024

Attention David Baumeister:

Fremont Analytical, Inc, an Alliance Technical Group company, received 2 sample(s) on 10/25/2024 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes

Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original

www.fremontanalytical.com



Date: 10/31/2024

CLIENT: OnSite Environmental Inc
Project: The Hearthstones
Work Order: 2410506

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2410506-001	MW06-20241025	10/25/2024 10:40 AM	10/25/2024 1:29 PM
2410506-002	MW32-20241025	10/25/2024 12:20 PM	10/25/2024 1:29 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: OnSite Environmental Inc

Project: The Hearthstones

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.



Analytical Report

Work Order: 2410506
Date Reported: 10/31/2024

CLIENT: OnSite Environmental Inc
Project: The Hearthstones

Lab ID: 2410506-001

Collection Date: 10/25/2024 10:40:00 AM

Client Sample ID: MW06-20241025

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Ferrous Iron by SM3500-Fe B

Batch ID: R95254 Analyst: JH

Ferrous Iron	5.84	0.750	D	mg/L	5	10/25/2024 2:44:32 PM
--------------	------	-------	---	------	---	-----------------------

Lab ID: 2410506-002

Collection Date: 10/25/2024 12:20:00 PM

Client Sample ID: MW32-20241025

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Ferrous Iron by SM3500-Fe B

Batch ID: R95254 Analyst: JH

Ferrous Iron	ND	0.150		mg/L	1	10/25/2024 2:44:32 PM
--------------	----	-------	--	------	---	-----------------------

Work Order: 2410506
CLIENT: OnSite Environmental Inc
Project: The Hearthstones

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R95254	SampType: MBLK	Units: mg/L		Prep Date: 10/25/2024	RunNo: 95254							
Client ID: MBLKW	Batch ID: R95254			Analysis Date: 10/25/2024	SeqNo: 1988070							
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-R95254	SampType: LCS	Units: mg/L		Prep Date: 10/25/2024	RunNo: 95254							
Client ID: LCSW	Batch ID: R95254			Analysis Date: 10/25/2024	SeqNo: 1988071							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.419	0.150	0.4000	0	105	85	115					

Sample ID: 2410506-002ADUP	SampType: DUP	Units: mg/L		Prep Date: 10/25/2024	RunNo: 95254							
Client ID: MW32-20241025	Batch ID: R95254			Analysis Date: 10/25/2024	SeqNo: 1988074							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	ND	0.150						0		20		

Sample ID: 2410506-002AMS	SampType: MS	Units: mg/L		Prep Date: 10/25/2024	RunNo: 95254							
Client ID: MW32-20241025	Batch ID: R95254			Analysis Date: 10/25/2024	SeqNo: 1988075							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.567	0.150	0.4000	0.1430	106	70	130					

Sample ID: 2410506-002AMSD	SampType: MSD	Units: mg/L		Prep Date: 10/25/2024	RunNo: 95254							
Client ID: MW32-20241025	Batch ID: R95254			Analysis Date: 10/25/2024	SeqNo: 1988076							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.602	0.150	0.4000	0.1430	115	70	130	0.5667	5.96	30		

Client Name: ONSITE

Work Order Number: 2410506

Logged by: Clare Griggs

Date Received: 10/25/2024 1:29:00 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 °C
Sample	5.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

[illegible]

Analytical Results

SiREM File Reference: S-10788

Client: OnSite Environmental Inc.
Client Project Number: 0651-002
Date Samples Received: October 30, 2024
Date Samples Analyzed: November 4, 2024

Client Sample ID	SiREM Reference ID	Client Sample Date	Sample Dilution Factor	Lactate	Acetate	Propionate	Formate	Butyrate	Pyruvate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW06-20241025	24-20053	25-Oct-24	50x	1.2 J	0.70 J	<0.30	0.68 J	<0.15	<0.75
MW32-20241025	24-20054	25-Oct-24	50x	1.3 J	<0.50	<0.30	<0.30	<0.15	<0.75
QL				50	0.50	0.50	0.30	0.30	0.15
RL				50	2.0	2.0	2.0	2.0	2.0

Comments:

Method: Ion Chromatography with Electrical Conductivity Detection
J = the associated value is an estimated result between the QL and the RL
QL = Quantitation Limit
RL = Reporting Limit
mg/L = milligram per liter
< = compound analyzed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst:

Brooke Rapien

Brooke Rapien, B.Sc.
Laboratory Technician II

Results approved:

Kela Ashworth

Kela Ashworth, B.Sc.
Scientist

Date:

November 15, 2024

[illegible]



Laboratory Reference #: 10-347

Project Name: _____

Phone Number: (865) 330-0037

[illegible]



Page 1 of 1

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

[illegible]

Sample/Cooler Receipt and Acceptance Checklist

Client: SES

Client Project Name/Number: 0651-002

OnSite Project Number: 10-347

Initiated by: MB

Date Initiated: 10/25/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<u>No</u>	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	<u>N/A</u>	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<u>N/A</u>	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	<u>Yes</u>	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	<u>Yes</u>	No	N/A	Temperature: <u>3</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<u>N/A</u>					
1.7 How were the samples delivered?	Client	<u>Courier</u>	UPS/FedEx	OSE Pickup	Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<u>Yes</u>	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	<u>Yes</u>	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	<u>Yes</u>	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<u>Yes</u>	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	<u>Yes</u>	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<u>No</u>	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<u>No</u>	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	<u>No</u>	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	<u>Yes</u>	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	<u>Yes</u>	No	N/A	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	<u>Yes</u>	No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	<u>Yes</u>	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	<u>Yes</u>	No	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	<u>N/A</u>	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	<u>N/A</u>	1	2	3	4	

Explain any discrepancies:

3.7) Ferrrous Iron will expire.

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed



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

November 15, 2024

Tom Cammarata
Sound Earth Strategies
1011 SW Klickitat Way, Suite 212
Seattle, WA 98134

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2410-359

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on October 28, 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,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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: November 15, 2024
Samples Submitted: October 28, 2024
Laboratory Reference: 2410-359
Project: 0651-002

Case Narrative

Samples were collected on October 25 and 28, 2024 and received by the laboratory on October 28, 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.

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.



Date of Report: November 15, 2024
 Samples Submitted: October 28, 2024
 Laboratory Reference: 2410-359
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW37-20241025						
Laboratory ID: 10-359-01						
Vinyl Chloride	ND	0.20	EPA 8260D	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	68-133				
<i>Toluene-d8</i>	99	79-123				
<i>4-Bromofluorobenzene</i>	98	78-117				

Client ID: MW03-20241028						
Laboratory ID: 10-359-02						
Vinyl Chloride	0.50	0.20	EPA 8260D	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	6.0	0.20	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	3.9	0.20	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	6.7	0.20	EPA 8260D	10-30-24	10-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	68-133				
<i>Toluene-d8</i>	101	79-123				
<i>4-Bromofluorobenzene</i>	102	78-117				

Client ID: MW05-20241028						
Laboratory ID: 10-359-03						
Vinyl Chloride	0.75	0.20	EPA 8260D	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	0.68	0.20	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	92	68-133				
<i>Toluene-d8</i>	102	79-123				
<i>4-Bromofluorobenzene</i>	99	78-117				



Date of Report: November 15, 2024
 Samples Submitted: October 28, 2024
 Laboratory Reference: 2410-359
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW09-20241028						
Laboratory ID: 10-359-04						
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	16	2.0	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	3.7	2.0	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	380	2.0	EPA 8260D	10-30-24	10-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-117</i>				

Client ID: MW10-20241028						
Laboratory ID: 10-359-05						
Vinyl Chloride	0.86	0.80	EPA 8260D	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	190	0.80	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	76	0.80	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	110	0.80	EPA 8260D	10-30-24	10-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-117</i>				

Client ID: MW15-20241028						
Laboratory ID: 10-359-06						
Vinyl Chloride	0.60	0.20	EPA 8260D	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	2.4	0.20	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>78-117</i>				



Date of Report: November 15, 2024
 Samples Submitted: October 28, 2024
 Laboratory Reference: 2410-359
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW24-20241028						
Laboratory ID: 10-359-07						
Vinyl Chloride	0.90	0.20	EPA 8260D	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	0.32	0.20	EPA 8260D	10-30-24	10-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	68-133				
<i>Toluene-d8</i>	100	79-123				
<i>4-Bromofluorobenzene</i>	100	78-117				
Client ID: MW28-20241028						
Laboratory ID: 10-359-08						
Vinyl Chloride	28	0.40	EPA 8260D	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	0.47	0.40	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	48	0.40	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	ND	0.40	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	7.7	0.40	EPA 8260D	10-30-24	10-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	68-133				
<i>Toluene-d8</i>	100	79-123				
<i>4-Bromofluorobenzene</i>	97	78-117				
Client ID: MW31-20241028						
Laboratory ID: 10-359-09						
Vinyl Chloride	2100	50	EPA 8260D	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	60	50	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	8700	50	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	ND	50	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	ND	50	EPA 8260D	10-30-24	10-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	68-133				
<i>Toluene-d8</i>	102	79-123				
<i>4-Bromofluorobenzene</i>	98	78-117				



Date of Report: November 15, 2024
 Samples Submitted: October 28, 2024
 Laboratory Reference: 2410-359
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW35-20241028						
Laboratory ID: 10-359-10						
Vinyl Chloride	2.6	0.20	EPA 8260D	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	39	0.20	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	5.8	0.20	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	17	0.20	EPA 8260D	10-30-24	10-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-117</i>				



Date of Report: November 15, 2024
 Samples Submitted: October 28, 2024
 Laboratory Reference: 2410-359
 Project: 0651-002

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1030W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-30-24	10-30-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
Trichloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
Tetrachloroethene	ND	0.20	EPA 8260D	10-30-24	10-30-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-117</i>				

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB1030W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	10.9	10.6	10.0	10.0	109	106	67-130	3	15	
(trans) 1,2-Dichloroethene	10.7	10.3	10.0	10.0	107	103	77-125	4	15	
(cis) 1,2-Dichloroethene	11.0	10.8	10.0	10.0	110	108	78-130	2	15	
Trichloroethene	11.6	11.0	10.0	10.0	116	110	80-126	5	15	
Tetrachloroethene	11.4	11.0	10.0	10.0	114	110	80-125	4	15	
Surrogate:										
Dibromofluoromethane					94	95	68-133			
Toluene-d8					99	100	79-123			
4-Bromofluorobenzene					103	101	78-117			



Date of Report: November 15, 2024
 Samples Submitted: October 28, 2024
 Laboratory Reference: 2410-359
 Project: 0651-002

**DISSOLVED GASES
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW05-20241028					
Laboratory ID:	10-359-03					
Methane	6600	55	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	ND	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>81</i>	<i>50-150</i>				

Client ID:	MW09-20241028					
Laboratory ID:	10-359-04					
Methane	2000	17	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	ND	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>97</i>	<i>50-150</i>				

Client ID:	MW10-20241028					
Laboratory ID:	10-359-05					
Methane	9400	83	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	ND	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>99</i>	<i>50-150</i>				

Client ID:	MW15-20241028					
Laboratory ID:	10-359-06					
Methane	6800	55	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	ND	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>96</i>	<i>50-150</i>				

Client ID:	MW28-20241028					
Laboratory ID:	10-359-08					
Methane	3100	28	RSK 175	10-31-24	10-31-24	
Ethane	20	0.56	RSK 175	10-31-24	10-31-24	
Ethene	120	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>88</i>	<i>50-150</i>				



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

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Date of Report: November 15, 2024
 Samples Submitted: October 28, 2024
 Laboratory Reference: 2410-359
 Project: 0651-002

DISSOLVED GASES
RSK 175

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW31-20241028					
Laboratory ID:	10-359-09					
Methane	730	5.5	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	330	5.8	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>132</i>	<i>50-150</i>				

Client ID:	MW35-20241028					
Laboratory ID:	10-359-10					
Methane	51	0.55	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	0.64	0.58	RSK 175	10-31-24	10-31-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>100</i>	<i>50-150</i>				



Date of Report: November 15, 2024
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 Project: 0651-002

**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:	MB1031W1					
Methane	ND	0.55	RSK 175	10-31-24	10-31-24	
Ethane	ND	0.56	RSK 175	10-31-24	10-31-24	
Ethene	ND	0.58	RSK 175	10-31-24	10-31-24	
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:	SB1031W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	47.0	44.9	44.2	44.2	106	102	75-125	5	25	
Ethane	88.6	84.7	83.2	83.2	106	102	75-125	5	25	
Ethene	82.7	79.6	77.7	77.7	106	102	75-125	4	25	
Surrogate:										
1-Butene					101	97	50-150			



Date of Report: November 15, 2024
 Samples Submitted: October 28, 2024
 Laboratory Reference: 2410-359
 Project: 0651-002

SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW05-20241028					
Laboratory ID:	10-359-03					
Sulfate	ND	5.0	ASTM D516-11	11-4-24	11-4-24	

Client ID:	MW09-20241028					
Laboratory ID:	10-359-04					
Sulfate	30	10	ASTM D516-11	11-4-24	11-4-24	

Client ID:	MW10-20241028					
Laboratory ID:	10-359-05					
Sulfate	23	10	ASTM D516-11	11-4-24	11-4-24	

Client ID:	MW15-20241028					
Laboratory ID:	10-359-06					
Sulfate	12	5.0	ASTM D516-11	11-4-24	11-4-24	

Client ID:	MW28-20241028					
Laboratory ID:	10-359-08					
Sulfate	6.5	5.0	ASTM D516-11	11-4-24	11-4-24	

Client ID:	MW31-20241028					
Laboratory ID:	10-359-09					
Sulfate	ND	5.0	ASTM D516-11	11-4-24	11-4-24	

Client ID:	MW35-20241028					
Laboratory ID:	10-359-10					
Sulfate	31	10	ASTM D516-11	11-4-24	11-4-24	



Date of Report: November 15, 2024
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 Laboratory Reference: 2410-359
 Project: 0651-002

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water

Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1104W1					
Sulfate	ND	5.0	ASTM D516-11	11-4-24	11-4-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-343-07							
	ORIG	DUP						
Sulfate	ND	ND	NA	NA	NA	NA	11	

MATRIX SPIKE

Laboratory ID:	10-343-07							
	MS	MS		MS				
Sulfate	10.4	10.0	ND	104	69-134	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1104W1							
	SB	SB		SB				
Sulfate	8.68	10.0	NA	87	81-106	NA	NA	



Date of Report: November 15, 2024
 Samples Submitted: October 28, 2024
 Laboratory Reference: 2410-359
 Project: 0651-002

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW05-20241028					
Laboratory ID:	10-359-03					
Chloride	32	2.0	SM 4500-Cl E	11-4-24	11-4-24	

Client ID:	MW09-20241028					
Laboratory ID:	10-359-04					
Chloride	5.8	2.0	SM 4500-Cl E	11-4-24	11-4-24	

Client ID:	MW10-20241028					
Laboratory ID:	10-359-05					
Chloride	6.1	2.0	SM 4500-Cl E	11-4-24	11-4-24	

Client ID:	MW15-20241028					
Laboratory ID:	10-359-06					
Chloride	53	2.0	SM 4500-Cl E	11-4-24	11-4-24	

Client ID:	MW28-20241028					
Laboratory ID:	10-359-08					
Chloride	110	4.0	SM 4500-Cl E	11-4-24	11-4-24	

Client ID:	MW31-20241028					
Laboratory ID:	10-359-09					
Chloride	20	2.0	SM 4500-Cl E	11-4-24	11-4-24	

Client ID:	MW35-20241028					
Laboratory ID:	10-359-10					
Chloride	7.7	2.0	SM 4500-Cl E	11-4-24	11-4-24	



Date of Report: November 15, 2024
 Samples Submitted: October 28, 2024
 Laboratory Reference: 2410-359
 Project: 0651-002

**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:	MB1104W1					
Chloride	ND	2.0	SM 4500-Cl E	11-4-24	11-4-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-359-04							
	ORIG	DUP						
Chloride	5.78	5.51	NA	NA	NA	NA	5	21

MATRIX SPIKE

Laboratory ID:	10-359-04							
	MS	MS		MS				
Chloride	56.1	50.0	5.78	101	81-115	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1104W1							
	SB	SB		SB				
Chloride	47.7	50.0	NA	95	77-115	NA	NA	



Date of Report: November 15, 2024
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 Laboratory Reference: 2410-359
 Project: 0651-002

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW05-20241028					
Laboratory ID:	10-359-03					
Nitrate	0.21	0.050	EPA 353.2	10-28-24	10-28-24	

Client ID:	MW09-20241028					
Laboratory ID:	10-359-04					
Nitrate	0.64	0.050	EPA 353.2	10-28-24	10-28-24	

Client ID:	MW10-20241028					
Laboratory ID:	10-359-05					
Nitrate	1.7	0.050	EPA 353.2	10-28-24	10-28-24	

Client ID:	MW15-20241028					
Laboratory ID:	10-359-06					
Nitrate	21	0.50	EPA 353.2	10-28-24	10-28-24	

Client ID:	MW28-20241028					
Laboratory ID:	10-359-08					
Nitrate	ND	0.050	EPA 353.2	10-28-24	10-28-24	

Client ID:	MW31-20241028					
Laboratory ID:	10-359-09					
Nitrate	ND	0.050	EPA 353.2	10-28-24	10-28-24	

Client ID:	MW35-20241028					
Laboratory ID:	10-359-10					
Nitrate	ND	0.050	EPA 353.2	10-28-24	10-28-24	



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 Project: 0651-002

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:	MB1028W1					
Nitrate	ND	0.050	EPA 353.2	10-28-24	10-28-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-359-04							
	ORIG	DUP						
Nitrate	0.644	0.592	NA	NA	NA	NA	8	22

MATRIX SPIKE

Laboratory ID:	10-359-04							
	MS	MS		MS				
Nitrate	2.60	2.00	0.644	98	86-119	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1028W1							
	SB	SB		SB				
Nitrate	2.09	2.00	NA	105	85-117	NA	NA	



Date of Report: November 15, 2024
 Samples Submitted: October 28, 2024
 Laboratory Reference: 2410-359
 Project: 0651-002

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW05-20241028					
Laboratory ID:	10-359-03					
Total Organic Carbon	26	1.0	SM 5310B	10.31-24	10.31-24	

Client ID:	MW09-20241028					
Laboratory ID:	10-359-04					
Total Organic Carbon	ND	1.0	SM 5310B	10.31-24	10.31-24	

Client ID:	MW10-20241028					
Laboratory ID:	10-359-05					
Total Organic Carbon	ND	1.0	SM 5310B	10.31-24	10.31-24	

Client ID:	MW15-20241028					
Laboratory ID:	10-359-06					
Total Organic Carbon	200	10	SM 5310B	10.31-24	10.31-24	

Client ID:	MW28-20241028					
Laboratory ID:	10-359-08					
Total Organic Carbon	4.8	1.0	SM 5310B	10.31-24	10.31-24	

Client ID:	MW31-20241028					
Laboratory ID:	10-359-09					
Total Organic Carbon	2.2	1.0	SM 5310B	10.31-24	10.31-24	

Client ID:	MW35-20241028					
Laboratory ID:	10-359-10					
Total Organic Carbon	ND	1.0	SM 5310B	10.31-24	10.31-24	



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 Project: 0651-002

**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:	MB1029W2					
Total Organic Carbon	ND	1.0	SM 5310B	10-29-24	10-29-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-335-02							
	ORIG	DUP						
Total Organic Carbon	ND	ND	NA	NA	NA	NA	11	

MATRIX SPIKE

Laboratory ID:	10-335-02							
	MS	MS		MS				
Total Organic Carbon	11.6	10.0	ND	116	85-120	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1029W2							
	SB	SB		SB				
Total Organic Carbon	11.1	10.0	NA	111	79-120	NA	NA	



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 Project: 0651-002

**TOTAL METALS
EPA 6010D**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW05-20241028						
Laboratory ID: 10-359-03						
Iron	34000	250	EPA 6010D	11-4-24	11-5-24	
Manganese	2900	10	EPA 6010D	11-4-24	11-4-24	

Client ID: MW09-20241028						
Laboratory ID: 10-359-04						
Iron	400	50	EPA 6010D	11-4-24	11-4-24	
Manganese	230	10	EPA 6010D	11-4-24	11-4-24	

Client ID: MW10-20241028						
Laboratory ID: 10-359-05						
Iron	3200	50	EPA 6010D	11-4-24	11-4-24	
Manganese	390	10	EPA 6010D	11-4-24	11-4-24	

Client ID: MW15-20241028						
Laboratory ID: 10-359-06						
Iron	47000	250	EPA 6010D	11-4-24	11-5-24	
Manganese	2200	10	EPA 6010D	11-4-24	11-4-24	

Client ID: MW28-20241028						
Laboratory ID: 10-359-08						
Iron	1700	50	EPA 6010D	11-4-24	11-4-24	
Manganese	750	10	EPA 6010D	11-4-24	11-4-24	

Client ID: MW31-20241028						
Laboratory ID: 10-359-09						
Iron	160	50	EPA 6010D	11-4-24	11-4-24	
Manganese	150	10	EPA 6010D	11-4-24	11-4-24	

Client ID: MW35-20241028						
Laboratory ID: 10-359-10						
Iron	60	50	EPA 6010D	11-4-24	11-4-24	
Manganese	38	10	EPA 6010D	11-4-24	11-4-24	



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 Project: 0651-002

**TOTAL METALS
 EPA 6010D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1104WH1					
Iron	ND	50	EPA 6010D	11-4-24	11-4-24	
Manganese	ND	10	EPA 6010D	11-4-24	11-4-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-331-05							
	ORIG	DUP						
Iron	317	323	NA	NA	NA	NA	2	20
Manganese	37.5	38.2	NA	NA	NA	NA	2	20

MATRIX SPIKES

Laboratory ID:	10-331-05									
	MS	MSD	MS	MSD		MS	MSD			
Iron	21500	21800	20000	20000	317	106	107	75-125	1	20
Manganese	571	579	500	500	37.5	107	108	75-125	2	20





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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OnSite Environmental Inc

David Baumeister

14648 NE 95th Street

Redmond, WA 98052

RE: The Hearthstone, 0651-002

Work Order Number: 2410535

October 31, 2024

Attention David Baumeister:

Fremont Analytical, Inc, an Alliance Technical Group company, received 7 sample(s) on 10/28/2024 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes

Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original

www.fremontanalytical.com



Date: 10/31/2024

CLIENT: OnSite Environmental Inc
Project: The Hearthstone
Work Order: 2410535

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2410535-001	MW15-20241028	10/28/2024 10:25 AM	10/28/2024 3:07 PM
2410535-002	MW31-20241028	10/28/2024 1:50 PM	10/28/2024 3:07 PM
2410535-003	MW28-20241028	10/28/2024 12:25 PM	10/28/2024 3:07 PM
2410535-004	MW09-20241028	10/28/2024 11:20 AM	10/28/2024 3:07 PM
2410535-005	MW05-20241028	10/28/2024 11:10 AM	10/28/2024 3:07 PM
2410535-006	MW10-20241028	10/28/2024 1:25 PM	10/28/2024 3:07 PM
2410535-007	MW35-20241028	10/28/2024 9:40 AM	10/28/2024 3:07 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: OnSite Environmental Inc

Project: The Hearthstone

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: The Hearthstone

Lab ID: 2410535-001 **Collection Date:** 10/28/2024 10:25:00 AM
Client Sample ID: MW15-20241028 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R95286		Analyst: BB
Ferrous Iron	20.3	3.75	D	mg/L	25	10/28/2024 3:36:57 PM

Lab ID: 2410535-002 **Collection Date:** 10/28/2024 1:50:00 PM
Client Sample ID: MW31-20241028 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R95286		Analyst: BB
Ferrous Iron	ND	0.150		mg/L	1	10/28/2024 3:36:57 PM

Lab ID: 2410535-003 **Collection Date:** 10/28/2024 12:25:00 PM
Client Sample ID: MW28-20241028 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R95286		Analyst: BB
Ferrous Iron	0.279	0.150		mg/L	1	10/28/2024 3:36:57 PM

Lab ID: 2410535-004 **Collection Date:** 10/28/2024 11:20:00 AM
Client Sample ID: MW09-20241028 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R95286		Analyst: BB
Ferrous Iron	ND	0.150		mg/L	1	10/28/2024 3:36:57 PM

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2410535-005 **Collection Date:** 10/28/2024 11:10:00 AM
Client Sample ID: MW05-20241028 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R95286		Analyst: BB
Ferrous Iron	37.4	3.75	D	mg/L	25	10/28/2024 3:36:57 PM

Lab ID: 2410535-006 **Collection Date:** 10/28/2024 1:25:00 PM
Client Sample ID: MW10-20241028 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R95286		Analyst: BB
Ferrous Iron	0.367	0.150		mg/L	1	10/28/2024 3:36:57 PM

Lab ID: 2410535-007 **Collection Date:** 10/28/2024 9:40:00 AM
Client Sample ID: MW35-20241028 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R95286		Analyst: BB
Ferrous Iron	ND	0.150		mg/L	1	10/28/2024 3:36:57 PM

Work Order: 2410535
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R95286		SampType: MBLK			Units: mg/L		Prep Date: 10/28/2024			RunNo: 95286		
Client ID: MBLKW		Batch ID: R95286			Analysis Date: 10/28/2024					SeqNo: 1988704		
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-R95286		SampType: LCS			Units: mg/L		Prep Date: 10/28/2024			RunNo: 95286		
Client ID: LCSW		Batch ID: R95286			Analysis Date: 10/28/2024			SeqNo: 1988705				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Ferrous Iron	0.396	0.150	0.4000	0	98.9	85	115				
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Sample ID: 2410535-001ADUP		SampType: DUP		Units: mg/L		Prep Date: 10/28/2024			RunNo: 95286		
Client ID: MW15-20241028		Batch ID: R95286					Analysis Date: 10/28/2024			SeqNo: 1988707	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron	18.8	3.75						20.34	7.78	20	D
--------------	------	------	--	--	--	--	--	-------	------	----	---

Sample ID: 2410535-001AMS		SampType: MS		Units: mg/L		Prep Date: 10/28/2024			RunNo: 95286		
Client ID: MW15-20241028		Batch ID: R95286					Analysis Date: 10/28/2024			SeqNo: 1988708	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron	30.4	3.75	10.00	20.34	101	70	130				D
--------------	------	------	-------	-------	-----	----	-----	--	--	--	---

Sample ID: 2410535-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2024			RunNo: 95286		
Client ID: MW15-20241028		Batch ID: R95286			Analysis Date: 10/28/2024			SeqNo: 1988709				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Ferrous Iron	31.5	3.75	10.00	20.34	112	70	130	30.42	3.51	30	D
--------------	------	------	-------	-------	-----	----	-----	-------	------	----	---

Client Name: ONSITE

Work Order Number: 2410535

Logged by: Morgan Wilson

Date Received: 10/28/2024 3:07:00 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 °C
Sample	4.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Mn Onsite
Environmental Inc.

Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

TO FREEMONT
Chain of Custody

Company: **SoundEarth Strategies**

Project Number: **0651-002**

Project Name: **The Hearthstone**

Project Manager: **Tom Cammarata**

Sampled by: **Linnea Coleman**

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Laboratory Number: **2410535**

Lab ID **Sample Identification**

Date Sampled Time Sampled Matrix

Number of Containers

CVOCs	
Dissolved Gases (Methane, Ethane, Ethene) by RSK-175	
Sulfate, Chloride, Nitrate	
TOC by SM 310B	
Total Mn and Total Fe by EPA 200.8	
Volatile Organic Fatty Acids	
Ferrous Iron	
Organophosphorus Pesticides 8270/SIM	
Chlorinated Acid Herbicides 8151	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664	
% Moisture	

MW15-20241026	10/28/24	1035	Water	1
MW31-20241026	10/26/24	1350		1
MW26-20241026		1305		1
MW09-20241026		1130		1
MW05-20241026		1116		1
MW10-20241026		1335		1
MW35-20241026		0940		1

LG4
10/28/24

Signature	Company	Date	Time	Comments/Special Instructions
	Sound Earth	10/28/24	1453	Direct bill to The Hearthstone CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC
	ALPHA	10/28/24	1453	Analyze samples at the lowest dilution possible.
	ALPHA	10/28/24	1507	Send lab reports to Tom & Linnea
	ATG	10/28/24	1507	David @ Onsite
Received				Data Package: Standard ☐ Level III ☐ Level IV ☐
Relinquished				Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Analytical Results

SiREM File Reference: S-10789

Client: OnSite Environmental Inc.
Client Project Number: 0651-002
Date Samples Received: October 30, 2024
Date Samples Analyzed: November 4, 2024

Client Sample ID	SiREM Reference ID	Client Sample Date	Sample Dilution Factor	Lactate	Acetate	Propionate	Formate	Butyrate	Pyruvate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW05-20241028	24-20055	28-Oct-24	50x	1.2 J	0.69 J	<0.30	0.81 J	<0.15	<0.75
MW09-20241028	24-20056	28-Oct-24	50x	<0.50	<0.50	<0.30	<0.30	<0.15	<0.75
MW10-20241028	24-20057	28-Oct-24	50x	1.6 J	1.0 J	<0.30	1.1 J	<0.15	<0.75
MW15-20241028	24-20058	28-Oct-24	50x	1.4 J	191	26	<0.30	33	<0.75
MW28-20241028	24-20059	28-Oct-24	50x	1.2 J	0.72 J	<0.30	0.63 J	<0.15	<0.75
MW31-20241028	24-20060	28-Oct-24	50x	<0.50	6.1	<0.30	0.74 J	<0.15	<0.75
MW35-20241028	24-20061	28-Oct-24	50x	<0.50	0.70 J	<0.30	0.66 J	<0.15	<0.75
QL				50	0.50	0.50	0.30	0.30	0.15
RL				50	2.0	2.0	2.0	2.0	2.0

Comments:

Method: Ion Chromatography with Electrical Conductivity Detection
J = the associated value is an estimated result between the QL and the RL
QL = Quantitation Limit
RL = Reporting Limit
mg/L = milligram per liter
< = compound analyzed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst:

Brooke Rapien

Brooke Rapien, B.Sc.
Laboratory Technician II

Results approved:

Kela Ashworth

Kela Ashworth, B.Sc.
Scientist

Date:

November 15, 2024



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

Laboratory: SiREM Laboratory

Attention: Ximena Druan

Address: 180A Market Place Blvd.

Address: Knoxville, TN 37922

Phone Number: (865) 330-0037

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

S10789

Laboratory Reference #: 10-359

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW05-20241028	10/28/24	11:10	W	3	Volatile Organic Fatty Acids ✓
	MW09-20241028	10/28/24	11:20	W	3	Volatile Organic Fatty Acids ✓
	MW10-20241028	10/28/24	13:25	W	3	Volatile Organic Fatty Acids ✓
	MW15-20241028	10/28/24	10:25	W	3	Volatile Organic Fatty Acids ✓
	MW28-20241028	10/28/24	12:25	W	3	Volatile Organic Fatty Acids ✓
	MW31-20241028	10/28/24	13:50	W	3	Volatile Organic Fatty Acids ✓
	MW35-20241028	10/28/24	9:40	W	3	Volatile Organic Fatty Acids ✓
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by: 				10/29/24	1600	2.9°C EIM (KX00238)
Received by:		UPS				
Relinquished by:		UPS				
Received by: 		SiREM		10/30/24	1027	
Relinquished by:						
Received by:						



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Laboratory: SIREM Laboratory

Attention: Ximena Druan

Address: 180A Market Place Blvd.

Address: Knoxville, TN 37922

Phone Number: (865) 330-0037

COPY

Page 1 of 1

S10789

Laboratory Reference #: 10-359

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name:

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW05-20241028	10/28/24	11:10	W	3 ¹	Volatile Organic Fatty Acids ✓
	MW09-20241028	10/28/24	11:20	W	3	Volatile Organic Fatty Acids ✓
	MW10-20241028	10/28/24	13:25	W	3	Volatile Organic Fatty Acids ✓
	MW15-20241028	10/28/24	10:25	W	3	Volatile Organic Fatty Acids ✓
	MW28-20241028	10/28/24	12:25	W	3	Volatile Organic Fatty Acids ✓
	MW31-20241028	10/28/24	13:50	W	3	Volatile Organic Fatty Acids ✓
	MW35-20241028	10/28/24	9:40	W	3	Volatile Organic Fatty Acids ✓
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by:				10/29/24	1600	
Received by:		UPS				
Relinquished by:		UPS				
Received by: K. Machigola		SIREM		10/30/24	1027	2.9°C EIM
Relinquished by: K. Machigola		SIREM		10/30/24	1600	(KX00238)
Received by:		SIREM		31/10/24	3:00 PM	15.8°C 0078



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Chain of Custody

Page 1 of 1

Company: SoundEarth Strategies		Turnaround Request (in working days)		Laboratory Number: 10-359																
Project Number: 0651-002		☐ Same Day ☐ 1 Day																		
Project Name: The Hearthstone		☐ 2 Days ☐ 3 Days																		
Project Manager: Tom Cammarata		☒ Standard (7 Days)																		
Sampled by: Linnea Coleman		☐ (other)																		
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers		Laboratory Tests													
1	MW37-20241025	10/25/24	1415	120	3	X	CVOCs	Dissolved Gases (Methane, Ethane, Ethene) by RSK-175	Sulfate, Chloride, Nitrate	TOC by SM 310B	Total Mn and Total Fe by EPA 200.8	Volatile Organic Fatty Acids	Ferrous Iron (Sent directly to Fremont)	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
2	MW03-20241028	10/28/24	1250		3	X														
3	MW05-20241028		1110			X														
4	MW09-20241028		1120			X														
5	MW10-20241028		1325			X														
6	MW15-20241028		1025			X														
7	MW24-20241028		0940		3	X														
8	MW28-20241028		1225			X														
9	MW31-20241028		1350			X														
10	MW35-20241028		0940			X														
Signature		Company		Date	Time	Comments/Special Instructions														
Relinquished		Sound Earth		10/28/24	1453	Direct bill to The Hearthstone CVOCs = PCF, TCE, cis/trans-1,2-DCE, VC														
Received		ALPHA		10/28/24	1453	Analyze samples at the lowest dilution possible.														
Relinquished		ALPHA		10/28/24	1615	Send lab reports to Tom & Linnea														
Received						Data Package: Standard ☐ Level III ☐ Level IV ☐														
Reviewed/Date		Reviewed/Date		Chromatograms with final report ☐ Electronic Data Deliver ☐ (EDDs) ☐																

Sample/Cooler Receipt and Acceptance Checklist

Client: SES

Client Project Name/Number: 0651-002

OnSite Project Number: 10-359

Initiated by: MM

Date Initiated: 10/28/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<u>No</u>	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	<u>N/A</u>	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<u>N/A</u>	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	<u>Yes</u>	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	<u>Yes</u>	No	N/A	Temperature: <u>3</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<u>N/A</u>					
1.7 How were the samples delivered?	Client	<u>Courier</u>	UPS/FedEx	OSE Pickup	Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<u>Yes</u>	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	<u>Yes</u>	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	<u>Yes</u>	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<u>Yes</u>	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	<u>Yes</u>	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<u>No</u>	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<u>No</u>	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	<u>No</u>	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	<u>Yes</u>	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	<u>Yes</u>	No	N/A	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	<u>Yes</u>	No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	<u>Yes</u>	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	<u>Yes</u>	No	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	<u>N/A</u>	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<u>N/A</u>	1	2	3	4

Explain any discrepancies:

<u>3.7) Ferrous Iron expire < 24 hrs</u>

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed



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November 4, 2024

Tom Cammarata
Sound Earth Strategies
1011 SW Klickitat Way, Suite 212
Seattle, WA 98134

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2410-390

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on October 30, 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,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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: November 4, 2024
Samples Submitted: October 30, 2024
Laboratory Reference: 2410-390
Project: 0651-002

Case Narrative

Samples were collected on October 29, 2024 and received by the laboratory on October 30, 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.

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.



Date of Report: November 4, 2024
 Samples Submitted: October 30, 2024
 Laboratory Reference: 2410-390
 Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IW15-20241029L					
Laboratory ID:	10-390-01					
Vinyl Chloride	5.6	0.40	EPA 8260D	11-1-24	11-1-24	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	11-1-24	11-1-24	
(cis) 1,2-Dichloroethene	47	0.40	EPA 8260D	11-1-24	11-1-24	
Trichloroethene	1.9	0.40	EPA 8260D	11-1-24	11-1-24	
Tetrachloroethene	1.1	0.40	EPA 8260D	11-1-24	11-1-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	68-133				
<i>Toluene-d8</i>	100	79-123				
<i>4-Bromofluorobenzene</i>	106	78-117				



Date of Report: November 4, 2024
 Samples Submitted: October 30, 2024
 Laboratory Reference: 2410-390
 Project: 0651-002

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1101W2					
Vinyl Chloride	ND	0.20	EPA 8260D	11-1-24	11-1-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-24	11-1-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-24	11-1-24	
Trichloroethene	ND	0.20	EPA 8260D	11-1-24	11-1-24	
Tetrachloroethene	ND	0.20	EPA 8260D	11-1-24	11-1-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	68-133				
<i>Toluene-d8</i>	100	79-123				
<i>4-Bromofluorobenzene</i>	105	78-117				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1101W2									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	9.51	9.64	10.0	10.0	95	96	67-130	1	15	
(trans) 1,2-Dichloroethene	10.3	10.5	10.0	10.0	103	105	77-125	2	15	
(cis) 1,2-Dichloroethene	10.7	11.0	10.0	10.0	107	110	78-130	3	15	
Trichloroethene	10.7	10.8	10.0	10.0	107	108	80-126	1	15	
Tetrachloroethene	9.72	10.0	10.0	10.0	97	100	80-125	3	15	
Surrogate:										
Dibromofluoromethane					98	100	68-133			
Toluene-d8					100	100	79-123			
4-Bromofluorobenzene					104	106	78-117			





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





Page of

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

[illegible]

Sample/Cooler Receipt and Acceptance Checklist

Client: SES

Client Project Name/Number: 0651-002

OnSite Project Number: 10-390

Initiated by: MW

Date Initiated: 10/30/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	☒ No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	☒ N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	☒ N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	☒ Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	☒ Yes	No	N/A	Temperature: <u>2</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	☒ N/A					
1.7 How were the samples delivered?	☒ Client	☐ Courier	☐ UPS/FedEx	☐ OSE Pickup	☐ Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	☒ Yes	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	☒ Yes	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	☒ Yes	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	☒ Yes	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	☒ Yes	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	☒ No	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	☒ No	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	☒ No	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	☒ Yes	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	☒ Yes	No	N/A	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	☒ Yes	No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	☒ Yes	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	☒ No	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	☒ N/A	1	2	3	4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

Vapor Intrusion Assessment

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

December 24, 2024

Tom Cammarata, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Cammarata:

Included are the results from the testing of material submitted on December 18, 2024 from the SOU_0651-002_20241218, F&BI 412328 project. There are 10 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Clare Tochilin
SOU1224R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 18, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651-002_20241218, F&BI 412328 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
412328 -01	IA01-20241217
412328 -02	IA02-20241217
412328 -03	IA03-20241217
412328 -04	IA04-20241217
412328 -05	IA05-20241217
412328 -06	OA01-20241217

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	IA01-20241217	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0651-002_20241218
Date Collected:	12/17/24	Lab ID:	412328-01
Date Analyzed:	12/21/24	Data File:	122021.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	100	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	IA02-20241217	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0651-002_20241218
Date Collected:	12/17/24	Lab ID:	412328-02
Date Analyzed:	12/21/24	Data File:	122020.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	98	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	IA03-20241217	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0651-002_20241218
Date Collected:	12/17/24	Lab ID:	412328-03
Date Analyzed:	12/21/24	Data File:	122019.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	98	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	IA04-20241217	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0651-002_20241218
Date Collected:	12/17/24	Lab ID:	412328-04
Date Analyzed:	12/21/24	Data File:	122018.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	99	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	IA05-20241217	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0651-002_20241218
Date Collected:	12/17/24	Lab ID:	412328-05
Date Analyzed:	12/20/24	Data File:	122017.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	98	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	OA01-20241217	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0651-002_20241218
Date Collected:	12/17/24	Lab ID:	412328-06
Date Analyzed:	12/20/24	Data File:	122016.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	99	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0651-002_20241218
Date Collected:	Not Applicable	Lab ID:	04-2963 MB
Date Analyzed:	12/20/24	Data File:	122011.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	97	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/24/24

Date Received: 12/18/24

Project: SOU_0651-002_20241218, F&BI 412328

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 412230-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 25)
Vinyl chloride	ug/m3	<0.26	<0.26	nm
trans-1,2-Dichloroethene	ug/m3	0.55	0.57	4
cis-1,2-Dichloroethene	ug/m3	<0.4	<0.4	nm
Trichloroethene	ug/m3	0.29	0.30	3
Tetrachloroethene	ug/m3	<6.8	<6.8	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ug/m3	35	118	70-130
trans-1,2-Dichloroethene	ug/m3	54	111	70-130
cis-1,2-Dichloroethene	ug/m3	54	114	70-130
Trichloroethene	ug/m3	73	110	70-130
Tetrachloroethene	ug/m3	92	114	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported between the method detection limit and the lowest calibration point. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

412328

SAMPLE CHAIN OF CUSTODY

M 12-18-24

Page # 1 of 1

Send Report to Tom Cammarata, Clare Tochlin

Company SoundEarth Strategies, Inc.

Address 1011 Southwest Klickitat Way, Suite 212

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

Plastics Sales & Service

0651-002

REMARKS

Indoor Air Reporting Levels

TURNAROUND TIME

(Standard (2 Weeks))

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Sample ID	Lab ID	Canister ID	Flow Controller ID	Date Sampled	Field Initial Pressure (Inches of Hg)	Field Initial Time	Field Final Pressure (Inches of Hg)	Field Final Time	PCE, TCE, cis- and trans-1,2-DCE, Vinyl Chloride	ANALYSES REQUESTED		Notes
IA01-20241217	01	21453	07870	12/17/24	-28	0759	-5	1548	X			
IA02-20241217	02	18576	07847		-18.5	0829	-5	1530	X			
IA03-20241217	03	20545	06604		-29	0841	-6	1609	X			
IA04-20241217	04	37228	20491		-29.5	0713	0	1510	X			
IA05-20241217	05	37083	20487		-30	0813	-6	1545	X			
OAO1-20241217	06	35335	07851		-30	0904	-4.5	1626	X			
Samples received at 16 °C												
12/17/24												

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

JONATHAN LEEFFER

SOUNDEARTH

12/18/24

1025

Received by:

Duan Phan

FEB 1

12/18/24

1025

Relinquished by:

Duan Phan

FEB 1

12/18/24

1025

Received by:

Duan Phan

FEB 1

12/18/24

1025

PROJECT # 412320 CLIENT Sound INITIALS/ (DP) DATE: 12/18/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 16 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☐ YES ☒ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ EW
*or other representative documents, letters, and/or shipping memos Date: 12/18

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	_____	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	_____	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	_____	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	_____	
Relinquished	☒ Yes ☐ No	_____	
Requested analysis	☒ Yes ☐ On Hold	_____	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☐ NA ☐ YES ☒ NO
Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

January 2, 2025

Tom Cammarata, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Cammarata:

Included are the results from the testing of material submitted on December 18, 2024 from the SOU_0651-002_20241218, F&BI 412329 project. There are 8 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Clare Tochilin
SOU0102R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 18, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651-002_20241218, F&BI 412329 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
412329 -01	SS01-20241217
412329 -02	SS02-20241217

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SS01-20241217	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0651-002_20241218
Date Collected:	12/18/24	Lab ID:	412329-01 1/8.7
Date Analyzed:	12/19/24	Data File:	121830.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	95	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Vinyl chloride	<2.2	<0.87
trans-1,2-Dichloroethene	<3.4	<0.87
cis-1,2-Dichloroethene	<3.4	<0.87
Trichloroethene	<0.94	<0.17
Tetrachloroethene	<59	<8.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SS02-20241217	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0651-002_20241218
Date Collected:	12/18/24	Lab ID:	412329-02 1/9.0
Date Analyzed:	12/19/24	Data File:	121829.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	96	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Vinyl chloride	<2.3	<0.9
trans-1,2-Dichloroethene	<3.6	<0.9
cis-1,2-Dichloroethene	<3.6	<0.9
Trichloroethene	<0.97	<0.18
Tetrachloroethene	<61	<9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0651-002_20241218
Date Collected:	Not Applicable	Lab ID:	04-2976 mb
Date Analyzed:	12/18/24	Data File:	121811.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	95	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/25

Date Received: 12/18/24

Project: SOU_0651-002_20241218, F&BI 412329

Date Extracted: 12/30/24

Date Analyzed: 12/30/24

**RESULTS FROM THE ANALYSIS OF AIR SAMPLES
FOR HELIUM USING METHOD ASTM D1946**

Results Reported as % Helium

Sample ID

Laboratory ID

Helium

SS01-20241217

412329-01

<0.6

SS02-20241217

412329-02

0.7

Method Blank

O4-3084 MB

<0.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/25

Date Received: 12/18/24

Project: SOU_0651-002_20241218, F&BI 412329

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 412294-04 1/8.5 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 25)
Vinyl chloride	ug/m3	<2.2	<2.2	nm
trans-1,2-Dichloroethene	ug/m3	<3.4	<3.4	nm
cis-1,2-Dichloroethene	ug/m3	<3.4	<3.4	nm
Trichloroethene	ug/m3	<0.91	<0.91	nm
Tetrachloroethene	ug/m3	<58	<58	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ug/m3	35	100	70-130
trans-1,2-Dichloroethene	ug/m3	54	109	70-130
cis-1,2-Dichloroethene	ug/m3	54	106	70-130
Trichloroethene	ug/m3	73	108	70-130
Tetrachloroethene	ug/m3	92	113	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/25

Date Received: 12/18/24

Project: SOU_0651-002_20241218, F&BI 412329

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR HELIUM
USING METHOD ASTM D1946**

Laboratory Code: 412445-02 (Duplicate)

Analyte	Sample Result (%)	Duplicate Result (%)	Relative Percent Difference	Acceptance Criteria
Helium	<0.6	<0.6	nm	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported between the method detection limit and the lowest calibration point. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

412329

SAMPLE CHAIN OF CUSTODY

ME 12-18-24

Page # 1 of 1

1

Send Report to Tom Cammarata, Clare Tochlin

Company SoundEarth Strategies, Inc.

Address 1011 Southwest Klickitat Way, Suite 212

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLES (signature)

PROJECT NAME/NO.

Plastics Sales & Service
0651-002

PO #

REMARKS

SOIL GAS Reporting Levels

TURNAROUND TIME
Standard (2 Weeks)

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Lab ID	Canister ID	Flow Controller ID	Date Sampled	Field Initial Pressure (Inches of Hg)	Field Initial Time	Field Final Pressure (Inches of Hg)	Field Final Time	ANALYSES REQUESTED		Notes
									PCE, TCE, cis- and trans-1,2-DCE, Vinyl Chloride	HELIUM	
SS01-20241217	01	9991	68	12/17/24	-30	1142	-7	1152	X	X	
SS02-20241217	02	9981	50	12/17/24	-27.5	1049	-5	1054	X	X	

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 412329 CLIENT Sound INITIALS/ DATE: (DP) 12/18/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 16 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☐ YES ☒ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ EWB
*or other representative documents, letters, and/or shipping memos Date: 12/18

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☐ NA ☐ YES ☒ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

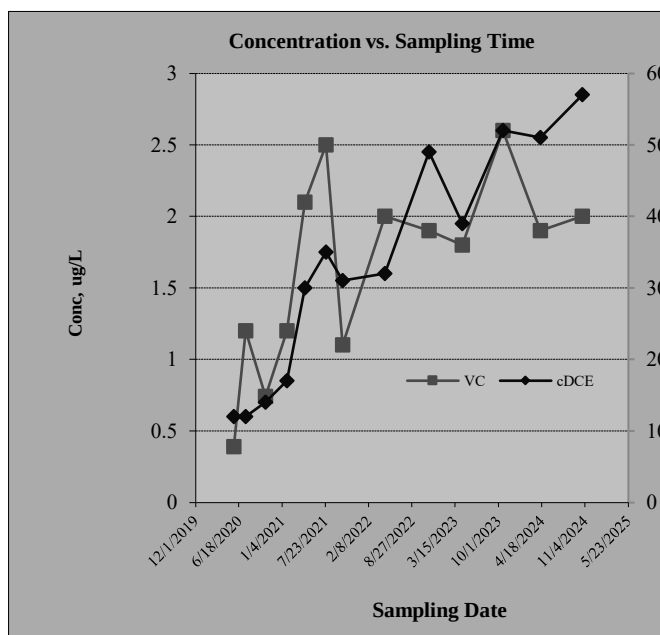
ATTACHMENT B
MANN-KENDALL NON-PARAMETRIC TREND RESULTS

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales and ServiceSite Address: 6870 Woodlawn Ave. NE., Seattle, WAAdditional Description: CVOCsWell (Sampling) Location? IW08Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	cDCE	VC				
#1	2/12/2020	12	0.39				
#2	5/26/2020	12	1.2				
#3	7/20/2020	14	0.74				
#4	10/19/2020	17	1.2				
#5	1/27/2021	30	2.1				
#6	4/19/2021	35	2.5				
#7	7/26/2021	31	1.1				
#8	10/11/2021	32	2				
#9	4/25/2022	49	1.9				
#10	11/15/2022	39	1.8				
#11	4/17/2023	52	2.6				
#12	10/23/2023	51	1.9				
#13	04/12/24	57	2				
#14	10/23/24	46	1.5				
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	cDCE	VC				
Confidence Level Calculated?	100.00%	93.70%	NA	NA	NA	NA
Plume Stability?	<i>Expanding</i>	<i>Expanding</i>	NA	NA	NA	NA
Coefficient of Variation?			n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	74	30	0	0	0	0
Number of Sampling Rounds?	14	14	0	0	0	0
Average Concentration?	34.07	1.64	NA	NA	NA	NA
Standard Deviation?	15.75	0.64	NA	NA	NA	NA
Coefficient of Variation?	0.46	0.39	NA	NA	NA	NA
Blank if No Errors found			n<4	n<4	n<4	n<4

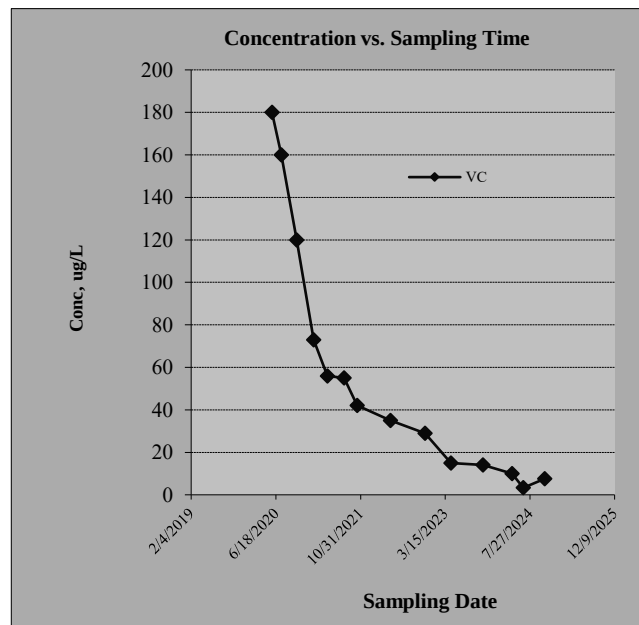
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? VCPlume Stability? Expanding

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales and Service SiteSite Address: 6870 Woodlawn Avenue East, Seattle, WA.Additional Description: CVOCWell (Sampling) Location? IW16Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	2/12/2020	180					
#2	5/26/2020	160					
#3	7/20/2020	120					
#4	10/19/2020	73					
#5	1/27/2021	56					
#6	4/19/2021	55					
#7	7/26/2021	42					
#8	10/11/2021	35					
#9	4/25/2022	29					
#10	11/15/2022	15					
#11	4/17/2023	14					
#12	10/23/2023	10					
#13	04/12/24	3.3					
#14	06/18/24	7.6					
#15	10/23/24	2.3					
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	VC					
Confidence Level Calculated?	100.00%	NA	NA	NA	NA	NA
Plume Stability?	Shrinking	NA	NA	NA	NA	NA
Coefficient of Variation?		n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	-103	0	0	0	0	0
Number of Sampling Rounds?	15	0	0	0	0	0
Average Concentration?	53.48	NA	NA	NA	NA	NA
Standard Deviation?	56.95	NA	NA	NA	NA	NA
Coefficient of Variation?	1.06	NA	NA	NA	NA	NA
Blank if No Errors found		n<4	n<4	n<4	n<4	n<4

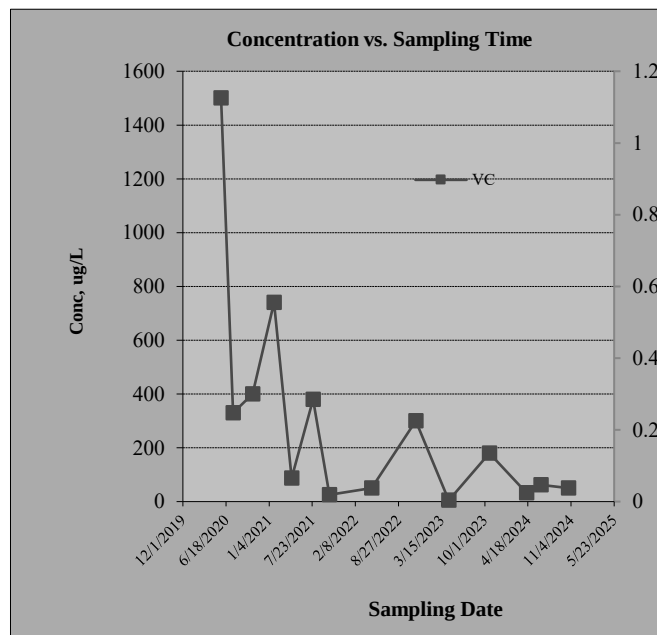
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? VCPlume Stability? Shrinking

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales and Services SiteSite Address: 6870 Woodlawn Ave. NE, Seattle, WAAdditional Description: Cholorinated SolventsWell (Sampling) Location? IW21Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled		VC				
#1	2/12/2020		1500				
#2	5/26/2020		330				
#3	7/20/2020		400				
#4	10/19/2020		740				
#5	1/27/2021		87				
#6	4/19/2021		380				
#7	7/26/2021		25				
#8	10/11/2021		50				
#9	4/25/2022		300				
#10	11/15/2022		4.5				
#11	4/17/2023		180				
#12	10/23/23		32				
#13	04/12/24		62				
#14	06/18/24		50				
#15	10/23/24		7				
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?		VC				
Confidence Level Calculated?	NA	99.80%	NA	NA	NA	NA
Plume Stability?	NA	Shrinking	NA	NA	NA	NA
Coefficient of Variation?	n<4		n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	0	-58	0	0	0	0
Number of Sampling Rounds?	0	15	0	0	0	0
Average Concentration?	NA	276.50	NA	NA	NA	NA
Standard Deviation?	NA	396.83	NA	NA	NA	NA
Coefficient of Variation?	NA	1.44	NA	NA	NA	NA
Blank if No Errors found	n<4		n<4	n<4	n<4	n<4

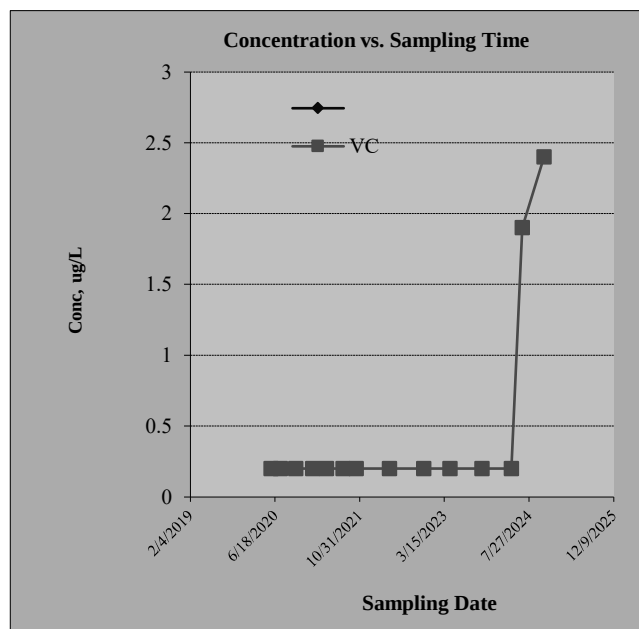
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? VCPlume Stability? Shrinking

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: *Plastic Sales and Service Site*Site Address: *6870 Woodlawn Avenue East, Seattle, WA.*Additional Description: *CVOC*Well (Sampling) Location? **IW31**Level of Confidence (Decision Criteria)? **85%****1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	2/12/2020	0.2					
#2	5/26/2020	0.2					
#3	7/20/2020	0.2					
#4	10/19/2020	0.2					
#5	1/27/2021	0.2					
#6	4/19/2021	0.2					
#7	7/26/2021	0.2					
#8	10/11/2021	0.2					
#9	4/25/2022	0.2					
#10	11/14/2022	0.2					
#11	4/17/2023	0.2					
#12	10/23/2023	0.2					
#13	04/15/24	1.9					
#14	06/18/24	2.4					
#15	10/24/24	0.53					
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	VC					
Confidence Level Calculated?	NA	95.40%	NA	NA	NA	NA
Plume Stability?	NA	Expanding	NA	NA	NA	NA
Coefficient of Variation?	n<4		n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	0	35	0	0	0	0
Number of Sampling Rounds?	0	15	0	0	0	0
Average Concentration?	NA	0.48	NA	NA	NA	NA
Standard Deviation?	NA	0.69	NA	NA	NA	NA
Coefficient of Variation?	NA	1.43	NA	NA	NA	NA
Blank if No Errors found	n<4		n<4	n<4	n<4	n<4

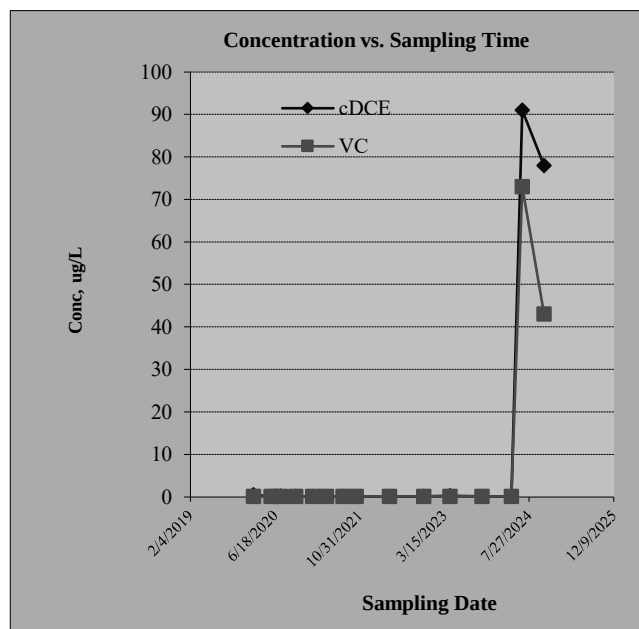
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? **VC**Plume Stability? **Expanding**

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales and Service SiteSite Address: 6870 Woodlawn Avenue East, Seattle, WA.Additional Description: CVOCWell (Sampling) Location? IW33Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	cDCE	VC				
#1	3/12/2019	0.5	0.1				
#2	2/12/2020	0.1	0.1				
#3	5/26/2020	0.2	0.1				
#4	7/20/2020	0.1	0.1				
#5	10/19/2020	0.1	0.1				
#6	1/27/2021	0.1	0.1				
#7	4/19/2021	0.1	0.1				
#8	7/26/2021	0.1	0.1				
#9	10/11/2021	0.1	0.1				
#10	4/25/2022	0.1	0.1				
#11	11/14/2022	0.27	0.1				
#12	4/17/2023	0.1	0.1				
#13	10/23/23	0.1	0.1				
#14	04/15/24	91.0	73				
#15	06/18/24	78.0	43				
#16	10/24/2024	74	15				

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	cDCE	VC				
Confidence Level Calculated?	82.50%	94.20%	NA	NA	NA	NA
Plume Stability?	Undetermined	Expanding	NA	NA	NA	NA
Coefficient of Variation?	CV > 1		n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	23	36	0	0	0	0
Number of Sampling Rounds?	16	16	0	0	0	0
Average Concentration?	15.31	8.27	NA	NA	NA	NA
Standard Deviation?	32.75	20.51	NA	NA	NA	NA
Coefficient of Variation?	2.14	2.48	NA	NA	NA	NA
Blank if No Errors found			n<4	n<4	n<4	n<4

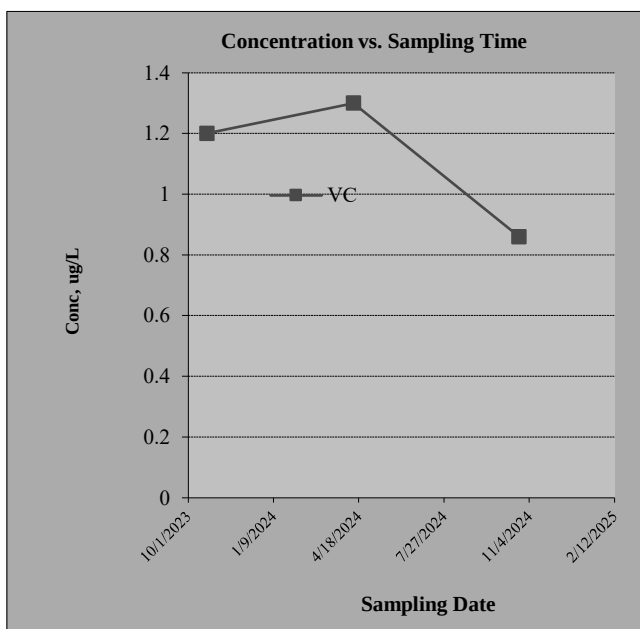
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? VCPlume Stability? Expanding

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: *Plastic Sales and Service Site*Site Address: *6870 Woodlawn Avenue East, Seattle, WA.*Additional Description: *CVOC*Well (Sampling) Location? **IW55**Level of Confidence (Decision Criteria)? **85%****1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	4/17/2023	1.2					
#2	10/23/2023	1.3					
#3	4/12/2024	0.86					
#4	10/23/2024	0.89					
#5							
#6							
#7							
#8							
#9							
#10							
#11							
#12							
#13							
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?		VC					
Confidence Level Calculated?	NA	62.50%	NA	NA	NA	NA	NA
Plume Stability?	NA	Stable	NA	NA	NA	NA	NA
Coefficient of Variation?	n<4	CV <= 1	n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	0	-2	0	0	0	0	0
Number of Sampling Rounds?	0	4	0	0	0	0	0
Average Concentration?	NA	1.06	NA	NA	NA	NA	NA
Standard Deviation?	NA	0.22	NA	NA	NA	NA	NA
Coefficient of Variation?	NA	0.21	NA	NA	NA	NA	NA
Blank if No Errors found	n<4		n<4	n<4	n<4	n<4	n<4

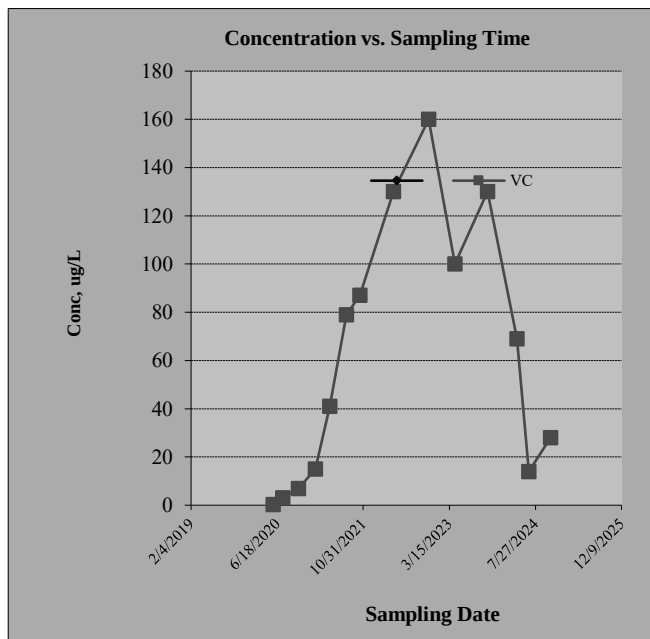
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? **VC**Plume Stability? **Stable**

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales SiteSite Address: 6870 Woodlawn Ave. NEAdditional Description: CVOCsWell (Sampling) Location? IW59Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	2/12/2020	0.24					
#2	5/26/2020	3					
#3	7/20/2020	6.9					
#4	10/19/2020	15					
#5	1/27/2021	41					
#6	4/19/2021	79					
#7	7/26/2021	87					
#8	10/11/2021	130					
#9	4/25/2022	160					
#10	11/15/2022	100					
#11	04/17/23	130					
#12	10/23/23	69					
#13	4/12/2024	14					
#14	6/18/2024	28					
#15	10/23/2024	18					
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?		VC				
Confidence Level Calculated?	NA	94.30%	NA	NA	NA	NA
Plume Stability?	NA	Expanding	NA	NA	NA	NA
Coefficient of Variation?	n<4		n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	0	34	0	0	0	0
Number of Sampling Rounds?	0	15	0	0	0	0
Average Concentration?	NA	58.74	NA	NA	NA	NA
Standard Deviation?	NA	53.10	NA	NA	NA	NA
Coefficient of Variation?	NA	0.90	NA	NA	NA	NA
Blank if No Errors found	n<4		n<4	n<4	n<4	n<4

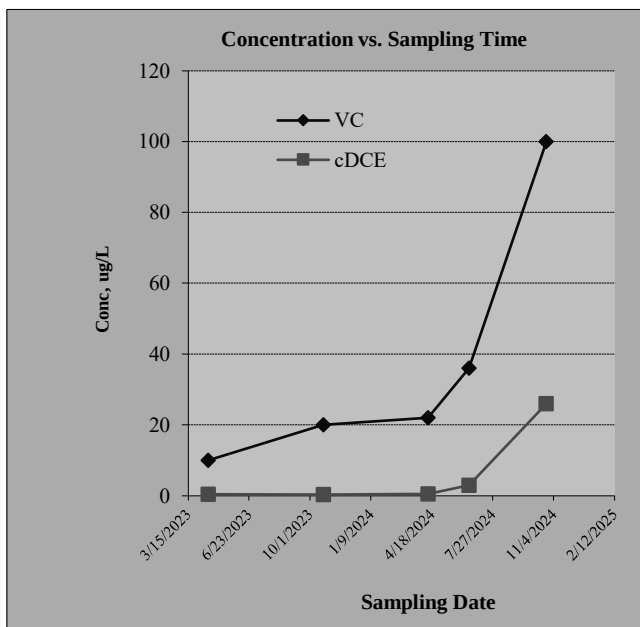
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? VCPlume Stability? Expanding

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: *Plastic Sales and Service Site*Site Address: *6870 Woodlawn Avenue East, Seattle, WA.*Additional Description: *CVOC*Well (Sampling) Location? **IW61**Level of Confidence (Decision Criteria)? **85%****1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC	cDCE				
#1	11/15/2022	10	0.42				
#2	4/17/2023	20	0.33				
#3	10/23/2023	22	0.49				
#4	4/12/2024	36	2.9				
#5	6/18/2024	100	26				
#6	10/23/2024	67	33				
#7							
#8							
#9							
#10							
#11							
#12							
#13							
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	VC	cDCE				
Confidence Level Calculated?	99.20%	99.20%	NA	NA	NA	NA
Plume Stability?	<i>Expanding</i>	<i>Expanding</i>	NA	NA	NA	NA
Coefficient of Variation?			n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	13	13	0	0	0	0
Number of Sampling Rounds?	6	6	0	0	0	0
Average Concentration?	42.50	10.52	NA	NA	NA	NA
Standard Deviation?	34.44	14.90	NA	NA	NA	NA
Coefficient of Variation?	0.81	1.42	NA	NA	NA	NA
Blank if No Errors found			n<4	n<4	n<4	n<4

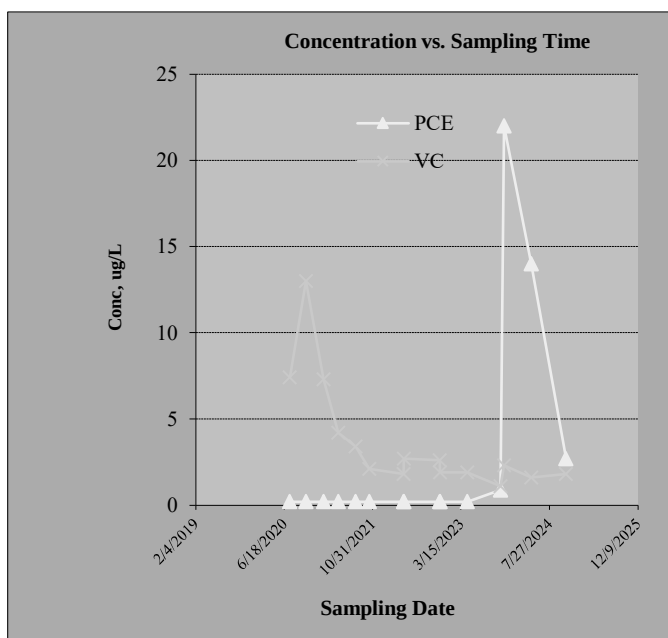
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? **VC**Plume Stability? **Expanding**

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales SiteSite Address: 6870 Woodlawn Ave. NEAdditional Description: CVOCsWell (Sampling) Location? MW03Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled			PCE	VC		
#1	4/21/2020			0.2	7.4		
#2	7/20/2020			0.2	13		
#3	10/20/2020			0.2	7.3		
#4	1/28/2021			0.2	4.2		
#5	4/20/2021			0.2	3.4		
#6	7/27/2021			0.2	2.1		
#7	10/12/2021			0.2	1.8		
#8	4/25/2022			0.2	2.7		
#9	4/27/2022			0.2	2.6		
#10	11/14/2022			0.2	1.9		
#11	11/17/2022			0.2	1.9		
#12	4/19/2023			0.88	1.1		
#13	10/25/2023			22	2.3		
#14	11/13/2023			14	1.6		
#15	4/16/2024			2.7	1.8		
#16	10/28/2024			6.7	0.5		

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?			PCE	VC		
Confidence Level Calculated?	NA	NA	99.20%	100.00%	NA	NA
Plume Stability?	NA	NA	Expanding	Shrinking	NA	NA
Coefficient of Variation?	n<4	n<4			n<4	n<4
Mann-Kendall Statistic "S" value?	0	0	55	-88	0	0
Number of Sampling Rounds?	0	0	16	16	0	0
Average Concentration?	NA	NA	3.03	3.48	NA	NA
Standard Deviation?	NA	NA	6.25	3.21	NA	NA
Coefficient of Variation?	NA	NA	2.06	0.92	NA	NA
Blank if No Errors found	n<4	n<4			n<4	n<4

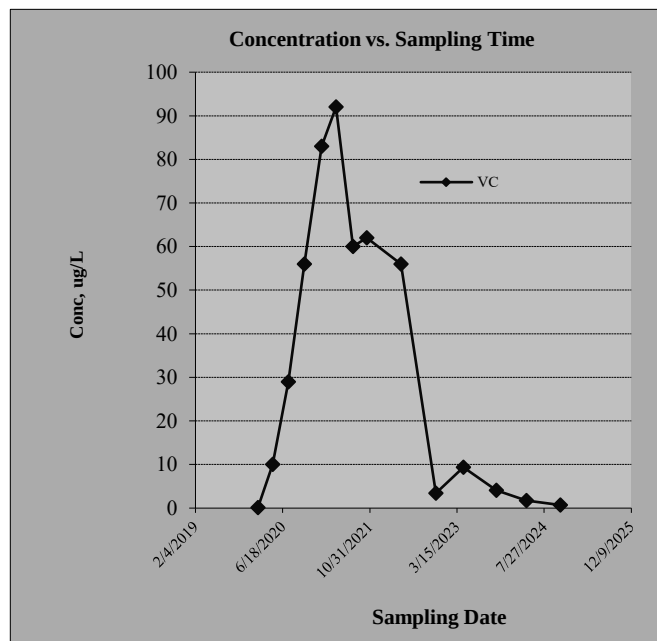
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? PCEPlume Stability? Expanding

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales SiteSite Address: 6870 Woodlawn Ave. NE, Seattle, WAAdditional Description: CVOCsWell (Sampling) Location? MW05Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	2/7/2019	0.1					
#2	1/28/2020	10					
#3	4/21/2020	29					
#4	7/20/2020	56					
#5	10/20/2020	83					
#6	1/28/2021	92					
#7	4/21/2021	60					
#8	7/27/2021	62					
#9	10/13/2021	56					
#10	4/27/2022	3.4					
#11	11/14/2022	9.4					
#12	4/20/2023	4.1					
#13	10/26/2023	1.7					
#14	4/16/2024	0.74					
#15	10/28/2024	0.75					
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	VC					
Confidence Level Calculated?	93.00%	NA	NA	NA	NA	NA
Plume Stability?	Shrinking	NA	NA	NA	NA	NA
Coefficient of Variation?		n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	-32	0	0	0	0	0
Number of Sampling Rounds?	15	0	0	0	0	0
Average Concentration?	31.21	NA	NA	NA	NA	NA
Standard Deviation?	33.29	NA	NA	NA	NA	NA
Coefficient of Variation?	1.07	NA	NA	NA	NA	NA
Blank if No Errors found		n<4	n<4	n<4	n<4	n<4

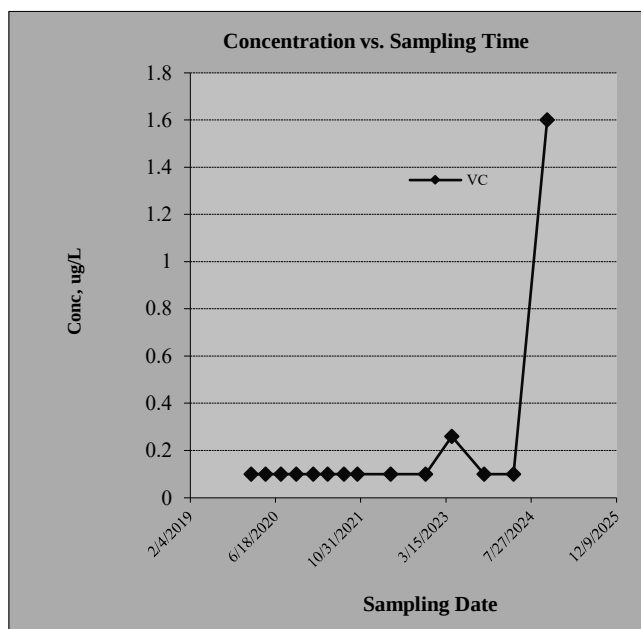
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? VCPlume Stability? Shrinking

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: *Plastic Sales and Service Site*Site Address: *6870 Woodlawn Avenue East, Seattle, WA.*Additional Description: *CVOC*Well (Sampling) Location? **MW15**Level of Confidence (Decision Criteria)? **85%****1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	10/22/2018	0.1					
#2	1/28/2020	0.1					
#3	4/21/2020	0.1					
#4	7/21/2020	0.1					
#5	10/19/2020	0.1					
#6	1/27/2021	0.1					
#7	4/20/2021	0.1					
#8	7/26/2021	0.1					
#9	10/12/2021	0.1					
#10	4/26/2022	0.1					
#11	11/16/2022	0.26					
#12	4/19/2023	0.1					
#13	10/25/23	0.1					
#14	04/15/24	1.6					
#15	10/28/24	0.6					
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	VC					
Confidence Level Calculated?	94.30%	NA	NA	NA	NA	NA
Plume Stability?	Expanding	NA	NA	NA	NA	NA
Coefficient of Variation?		n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	33	0	0	0	0	0
Number of Sampling Rounds?	15	0	0	0	0	0
Average Concentration?	0.24	NA	NA	NA	NA	NA
Standard Deviation?	0.40	NA	NA	NA	NA	NA
Coefficient of Variation?	1.63	NA	NA	NA	NA	NA
Blank if No Errors found		n<4	n<4	n<4	n<4	n<4

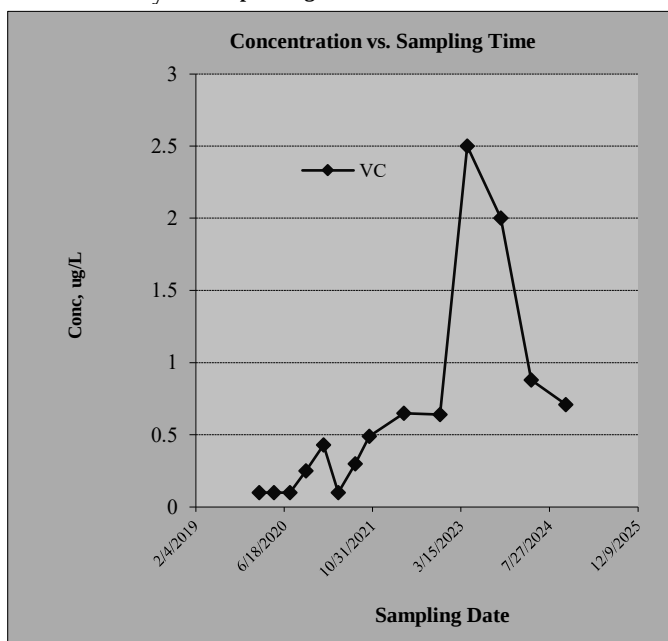
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? **VC**Plume Stability? **Expanding**

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: *Plastic Sales and Services*Site Address: *6870 Woodlawn Ave N, Seattle, WA*Additional Description: *Demo NA site*Well (Sampling) Location? **MW24**Level of Confidence (Decision Criteria)? **85%****1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	10/24/2018	0.10					
#2	1/29/2020	0.10					
#3	4/21/2020	0.10					
#4	7/21/2020	0.25					
#5	10/19/2020	0.43					
#6	1/28/2021	0.10					
#7	4/20/2021	0.30					
#8	7/26/2021	0.49					
#9	10/12/2021	0.65					
#10	4/27/2022	0.64					
#11	11/16/2022	2.5					
#12	04/19/23	2.00					
#13	10/26/23	0.88					
#14	4/16/2024	0.71					
#15	10/28/2024	0.90					
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	VC					
Confidence Level Calculated?	100.00%	NA	NA	NA	NA	NA
Plume Stability?	Expanding	NA	NA	NA	NA	NA
Coefficient of Variation?		n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	75	0	0	0	0	0
Number of Sampling Rounds?	15	0	0	0	0	0
Average Concentration?	0.68	NA	NA	NA	NA	NA
Standard Deviation?	0.70	NA	NA	NA	NA	NA
Coefficient of Variation?	1.04	NA	NA	NA	NA	NA
Blank if No Errors found		n<4	n<4	n<4	n<4	n<4

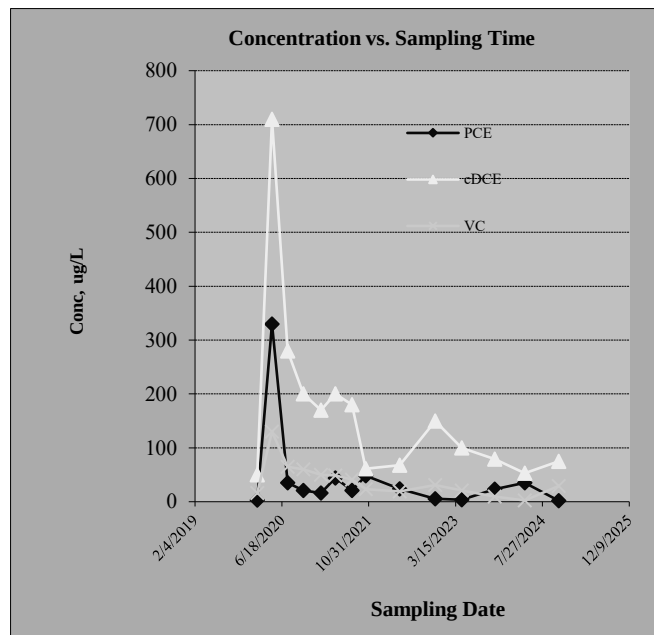
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? **VC**Plume Stability? **Expanding**

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales and ServiceSite Address: 6870 Woodlawn Ave. NE., Seattle, WAAdditional Description: CVOCsWell (Sampling) Location? MW28Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	PCE		cDCE	VC		
#1	6/4/2019	3.1		50	16		
#2	1/28/2020	330		710	130		
#3	4/22/2020	35		280	65		
#4	7/21/2020	21		200	60		
#5	10/20/2020	16		170	50		
#6	1/28/2021	44		200	49		
#7	4/21/2021	21		180	41		
#8	7/27/2021	48		61	23		
#9	10/13/2021	24		68	19		
#10	4/27/2022	5.7		150	31		
#11	11/17/2022	3.7		100	21		
#12	4/20/2023	23		79	9.7		
#13	10/26/2023	35		53	2.3		
#14	4/16/2024	2		75	29		
#15	10/28/2024	7.7		48	28		
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	PCE		cDCE	VC		
Confidence Level Calculated?	85.90%	NA	99.60%	99.70%	NA	NA
Plume Stability?	Shrinking	NA	Shrinking	Shrinking	NA	NA
Coefficient of Variation?		n<4			n<4	n<4
Mann-Kendall Statistic "S" value?	-23	0	-54	-55	0	0
Number of Sampling Rounds?	15	0	15	15	0	0
Average Concentration?	41.28	NA	161.60	38.27	NA	NA
Standard Deviation?	81.24	NA	167.42	31.18	NA	NA
Coefficient of Variation?	1.97	NA	1.04	0.81	NA	NA
Blank if No Errors found		n<4			n<4	n<4

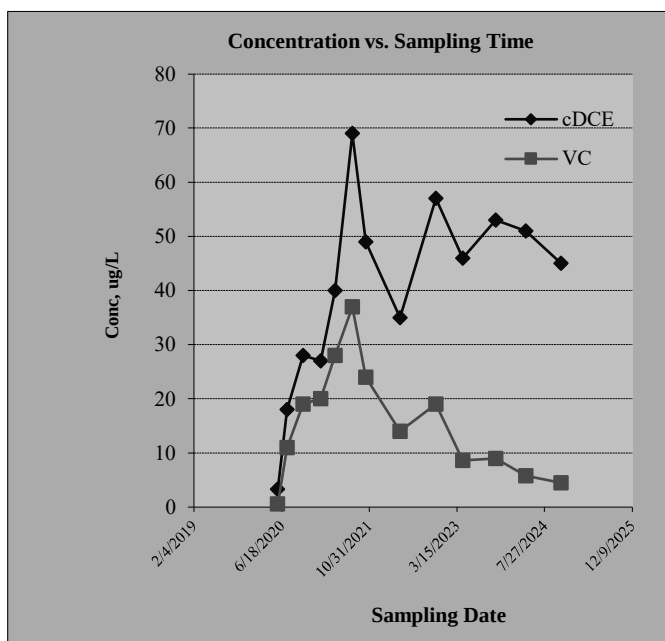
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? VCPlume Stability? Shrinking

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales SiteSite Address: 6870 Woodlawn Ave. NEAdditional Description: CVOCsWell (Sampling) Location? IW15Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	cDCE	VC				
#1	2/12/2020	3.3	0.58				
#2	5/26/2020	18	11				
#3	7/20/2020	28	19				
#4	10/19/2020	27	20				
#5	1/27/2021	40	28				
#6	4/19/2021	69	37				
#7	7/26/2021	49	24				
#8	10/11/2021	35	14				
#9	4/25/2022	57	19				
#10	11/15/2022	46	8.6				
#11	04/17/23	53	9				
#12	10/23/23	51	5.8				
#13	4/12/2024	45	4.5				
#14	10/29/2024	47	5.6				
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	cDCE	VC				
Confidence Level Calculated?	98.70%	92.10%	NA	NA	NA	NA
Plume Stability?	<i>Expanding</i>	Shrinking	NA	NA	NA	NA
Coefficient of Variation?			n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	41	-28	0	0	0	0
Number of Sampling Rounds?	14	14	0	0	0	0
Average Concentration?	40.59	14.72	NA	NA	NA	NA
Standard Deviation?	17.04	10.28	NA	NA	NA	NA
Coefficient of Variation?	0.42	0.70	NA	NA	NA	NA
Blank if No Errors found			n<4	n<4	n<4	n<4

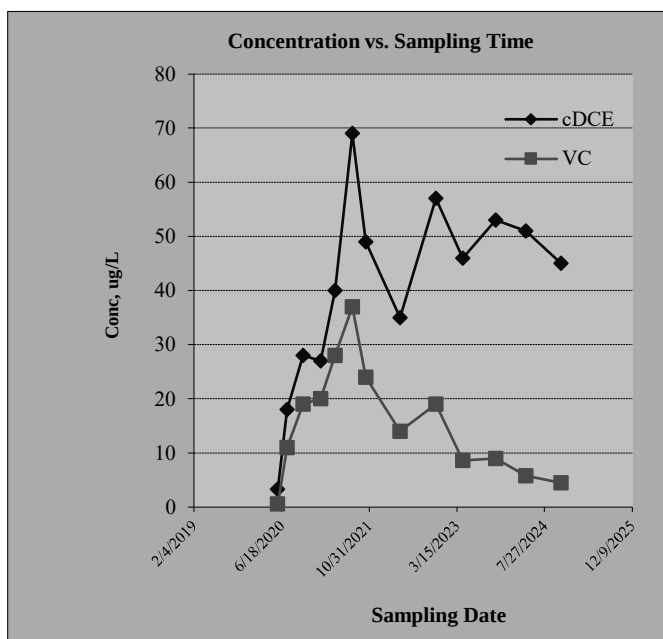
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? VCPlume Stability? Shrinking

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales SiteSite Address: 6870 Woodlawn Ave. NEAdditional Description: CVOCsWell (Sampling) Location? IW15Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	cDCE	VC				
#1	2/12/2020	3.3	0.58				
#2	5/26/2020	18	11				
#3	7/20/2020	28	19				
#4	10/19/2020	27	20				
#5	1/27/2021	40	28				
#6	4/19/2021	69	37				
#7	7/26/2021	49	24				
#8	10/11/2021	35	14				
#9	4/25/2022	57	19				
#10	11/15/2022	46	8.6				
#11	04/17/23	53	9				
#12	10/23/23	51	5.8				
#13	4/12/2024	45	4.5				
#14	10/29/2024	47	5.6				
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	cDCE	VC				
Confidence Level Calculated?	98.70%	92.10%	NA	NA	NA	NA
Plume Stability?	<i>Expanding</i>	Shrinking	NA	NA	NA	NA
Coefficient of Variation?			n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	41	-28	0	0	0	0
Number of Sampling Rounds?	14	14	0	0	0	0
Average Concentration?	40.59	14.72	NA	NA	NA	NA
Standard Deviation?	17.04	10.28	NA	NA	NA	NA
Coefficient of Variation?	0.42	0.70	NA	NA	NA	NA
Blank if No Errors found			n<4	n<4	n<4	n<4

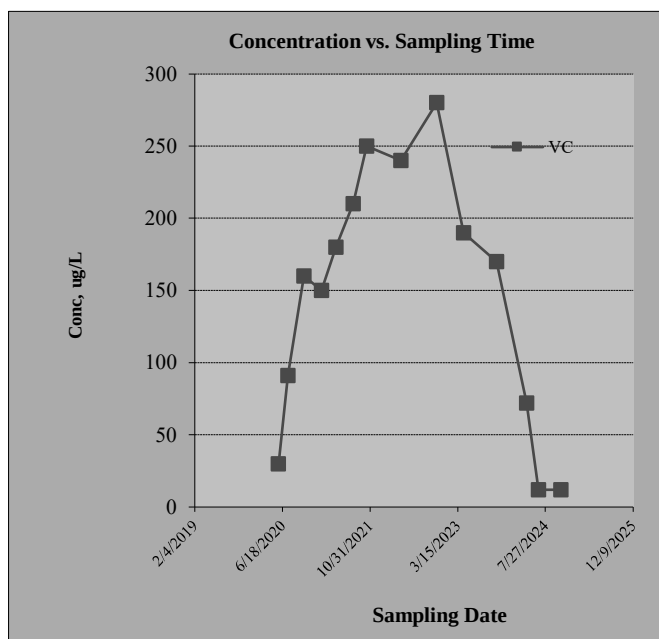
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? VCPlume Stability? Shrinking

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales SiteSite Address: 6870 Woodlawn Ave. NEAdditional Description: CVOCsWell (Sampling) Location? IW22Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	02/12/20	30					
#2	05/26/20	91					
#3	07/20/20	160					
#4	10/19/20	150					
#5	01/27/21	180					
#6	04/19/21	210					
#7	07/26/21	250					
#8	10/11/21	240					
#9	04/25/22	280					
#10	11/15/22	190					
#11	04/17/23	170					
#12	10/23/23	72					
#13	4/12/2024	12					
#14	6/18/2024	12					
#15	10/23/2024	4.9					
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?		VC				
Confidence Level Calculated?	NA	75.20%	NA	NA	NA	NA
Plume Stability?	NA	Stable	NA	NA	NA	NA
Coefficient of Variation?	n<4	CV <= 1	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	0	-16	0	0	0	0
Number of Sampling Rounds?	0	15	0	0	0	0
Average Concentration?	NA	136.79	NA	NA	NA	NA
Standard Deviation?	NA	93.39	NA	NA	NA	NA
Coefficient of Variation?	NA	0.68	NA	NA	NA	NA
Blank if No Errors found	n<4		n<4	n<4	n<4	n<4

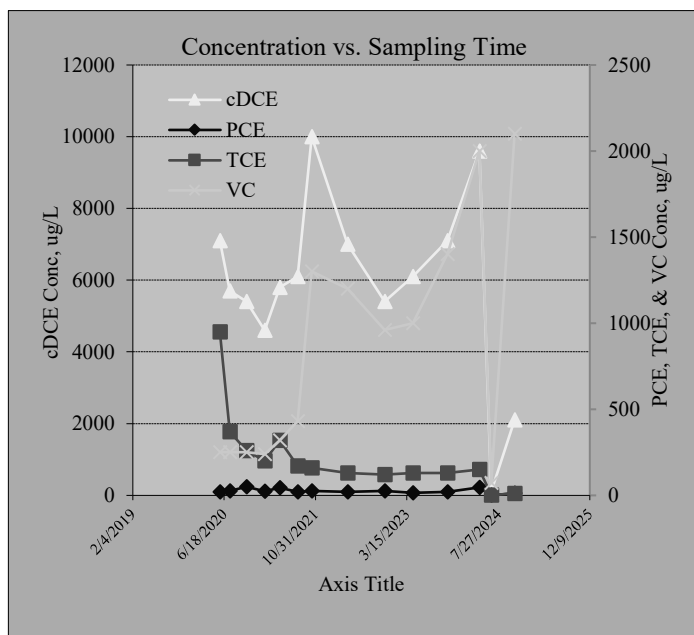
3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? VCPlume Stability? Stable

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales SiteSite Address: 6870 Woodlawn Ave. NEAdditional Description: CVOCsWell (Sampling) Location? IW32Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	PCE	TCE	cDCE	VC		
#1	2/12/2020	20	950	7100	250		
#2	5/26/2020	25	370	5700	250		
#3	7/20/2020	50	260	5400	250		
#4	10/19/2020	23	200	4600	240		
#5	1/27/2021	45	320	5800	320		
#6	4/19/2021	20	170	6100	430		
#7	7/26/2021	25	160	10000	1300		
#8	10/11/2021	20	130	7000	1200		
#9	4/25/2022	25	120	5400	960		
#10	11/14/2022	15	130	6100	1000		
#11	4/17/2023	20	130	7100	1400		
#12	10/23/2023	46	150	9600	2000		
#13	4/15/2024	1	2	110	73		
#14	6/18/2024	12	10	2100	2100		
#15	10/24/2024	10	20	2900	1300		
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	PCE	TCE	cDCE	VC		
Confidence Level Calculated?	97.70%	100.00%	68.70%	99.70%	NA	NA
Plume Stability?	Shrinking	Shrinking	Stable	Expanding	NA	NA
Coefficient of Variation?			CV <= 1		n<4	n<4
Mann-Kendall Statistic "S" value?	-42	-80	-12	55	0	0
Number of Sampling Rounds?	15	15	15	15	0	0
Average Concentration?	23.80	208.13	5667.33	871.53	NA	NA
Standard Deviation?	13.68	230.25	2578.23	668.46	NA	NA
Coefficient of Variation?	0.57	1.11	0.45	0.77	NA	NA
Blank if No Errors found					n<4	n<4

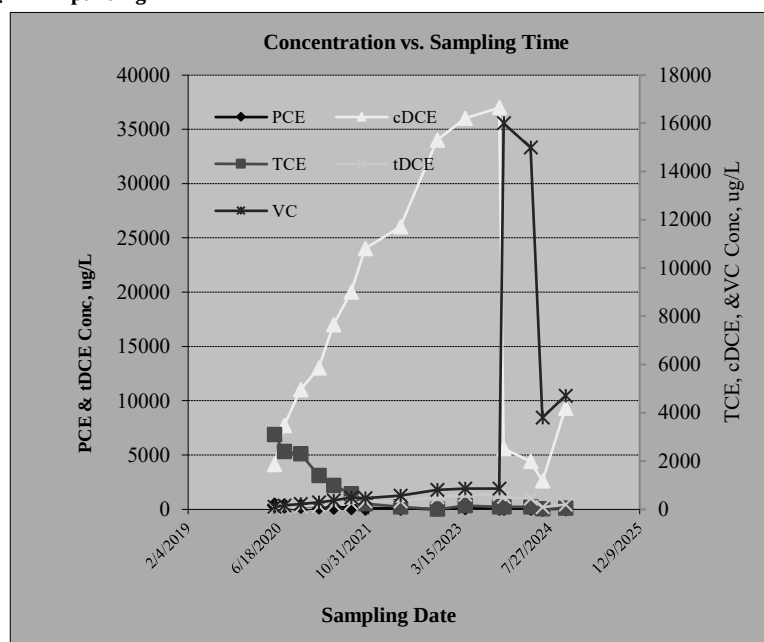


Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: Plastic Sales SiteSite Address: 6870 Woodlawn Ave. NEAdditional Description: CVOCsWell (Sampling) Location? IW34Level of Confidence (Decision Criteria)? 85%**1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	PCE	TCE	cDCE	tDCE	VC	
#1	2/12/2020	360	3100	4100	50	100	
#2	5/26/2020	310	2400	7700	83	160	
#3	7/20/2020	290	2300	11000	110	220	
#4	10/19/2020	230	1400	13000	140	280	
#5	1/27/2021	200	990	17000	200	360	
#6	4/19/2021	170	650	20000	240	480	
#7	7/26/2021	100	230	24000	320	460	
#8	10/11/2021	100	100	26000	330	560	
#9	4/25/2022	5	5	34000	500	810	
#10	11/14/2022	150	150	36000	600	860	
#11	4/17/2023	100	100	37000	620	860	
#12	10/23/23	100	100	5600	510	16000	
#13	11/17/23	100	100	4400	450	15000	
#14	4/15/2024	15	15	2600	84	3800	
#15	6/18/2024	50	50	9300	190	4700	
#16	10/24/2024	50	50	16000	340	4400	

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	PCE	TCE	cDCE	tDCE	VC	
Confidence Level Calculated?	100.00%	100.00%	80.10%	99.60%	100.00%	NA
Plume Stability?	Shrinking	Shrinking	Stable	<i>Expanding</i>	<i>Expanding</i>	NA
Coefficient of Variation?			CV <= 1			n<4
Mann-Kendall Statistic "S" value?	-87	-93	20	58	101	0
Number of Sampling Rounds?	16	16	16	16	16	0
Average Concentration?	145.63	733.75	16731.25	297.94	3065.63	NA
Standard Deviation?	106.47	1017.48	11687.93	190.70	5097.08	NA
Coefficient of Variation?	0.73	1.39	0.70	0.64	1.66	NA
Blank if No Errors found						n<4

3. Temporal Trend: Plot of Concentration vs. Sampling TimeHazardous substance? VCPlume Stability? Expanding

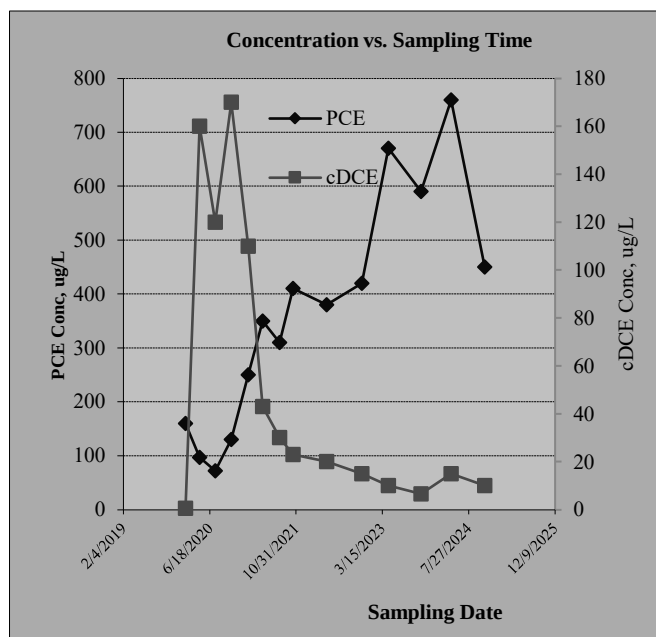
Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: *Plastic Sales and Servic*Site Address: *6870 Woodlawn Ave NE, Seattle, WA*Additional Description: *CVOCs*Well (Sampling) Location? **MW09**Level of Confidence (Decision Criteria)? **85%****1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event		PCE	cDCE				
#1	10/24/2018	160	0.5				
#2	1/29/2020	97	160				
#3	4/21/2020	72	120				
#4	7/21/2020	130	170				
#5	10/20/2020	250	110				
#6	1/28/2021	350	43				
#7	4/20/2021	310	30				
#8	7/27/2021	410	23				
#9	10/13/2021	380	20				
#10	4/27/2022	420	15				
#11	11/17/2022	670	10				
#12	4/20/2023	590	6.6				
#13	10/25/2023	760	15				
#14	4/16/2024	450	10				
#15	10/28/2024	380	16				
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	PCE	cDCE				
Confidence Level Calculated?	100.00%	99.70%	NA	NA	NA	NA
Plume Stability?	Expanding	Shrinking	NA	NA	NA	NA
Coefficient of Variation?			n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	72	-55	0	0	0	0
Number of Sampling Rounds?	15	15	0	0	0	0
Average Concentration?	361.93	49.94	NA	NA	NA	NA
Standard Deviation?	204.18	58.69	NA	NA	NA	NA
Coefficient of Variation?	0.56	1.18	NA	NA	NA	NA
Blank if No Errors found			n<4	n<4	n<4	n<4

VC



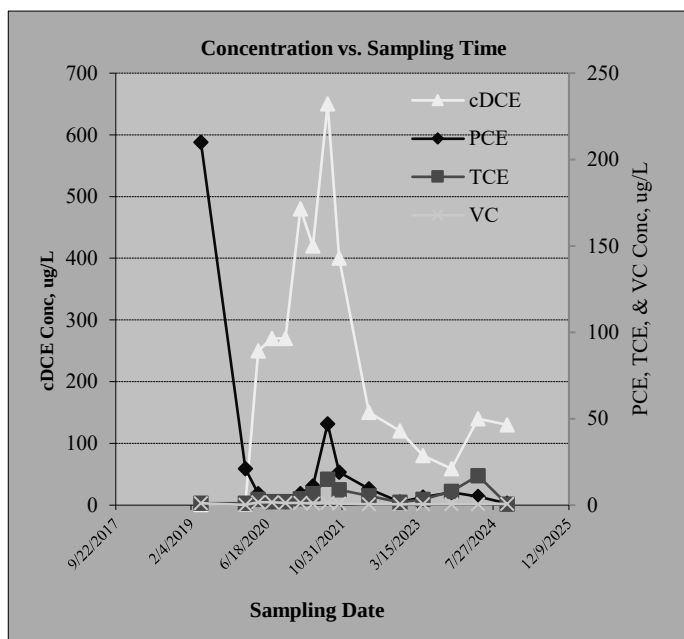
Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: *Plastic Sales and Service*Site Address: *6870 Woodlawn Ave N. Seattle, WA*Additional Description: *CVOCs*Well (Sampling) Location? **MW10**Level of Confidence (Decision Criteria)? **85%****1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	PCE	TCE	cDCE	VC		
#1	10/24/2018	210	1	1	1		
#2	4/9/2019	21	1.1	1.8	0.1		
#3	1/29/2020	6.5	3.3	250	1.6		
#4	4/22/2020	2	2	270	1.5		
#5	7/22/2020	2	2	270	1.3		
#6	10/20/2020	6.5	3.6	480	1.2		
#7	1/28/2021	11	6.5	420	0.91		
#8	4/20/2021	47	15	650	1.3		
#9	7/26/2021	19	8.9	400	0.78		
#10	10/12/2021	9.3	5.3	150	0.56		
#11	4/26/2022	1.7	1.5	120	0.5		
#12	11/17/2022	4.5	3.3	80	0.45		
#13	4/20/2023	7.3	7.8	59	0.42		
#14	10/25/2023	5	17	140	0.53		
#15	4/17/2024	0.98	0.4	130	0.75		
#16	10/28/2024	110	76	190	0.86		

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	PCE	TCE	cDCE	VC		
Confidence Level Calculated?	82.50%	98.40%	55.30%	97.90%	NA	NA
Plume Stability?	Undetermined	<i>Expanding</i>	Stable	Shrinking	NA	NA
Coefficient of Variation?	CV > 1		CV <= 1		n<4	n<4
Mann-Kendall Statistic "S" value?	-22	48	-5	-47	0	0
Number of Sampling Rounds?	16	16	16	16	0	0
Average Concentration?	28.99	9.67	225.74	0.86	NA	NA
Standard Deviation?	55.48	18.35	182.88	0.43	NA	NA
Coefficient of Variation?	1.91	1.90	0.81	0.50	NA	NA
Blank if No Errors found					n<4	n<4

VC

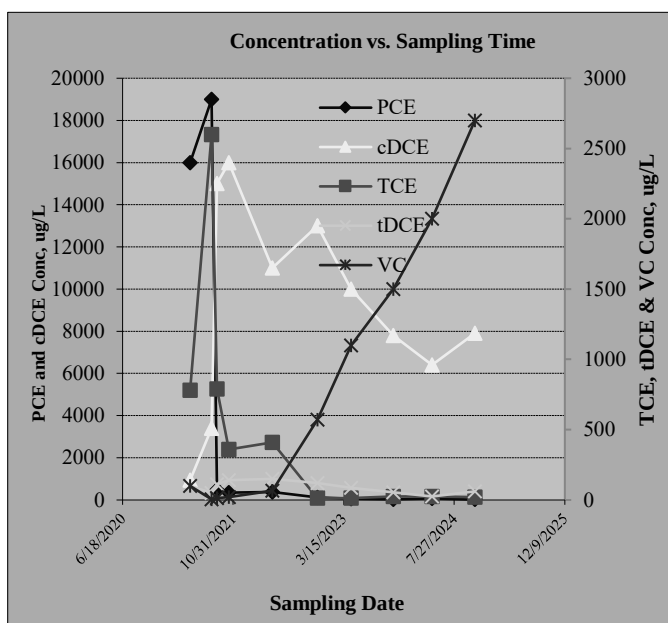
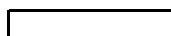


Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: *Plastic Sales and Services Site*Site Address: *6870 Woodlawn Avenue NE, Seattle, WA*Additional Description: *CVOCs*Well (Sampling) Location? **MW31**Level of Confidence (Decision Criteria)? **85%****1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	PCE	TCE	cDCE	tDCE	VC	
#1	1/27/2021	16000	780	940	100	100	
#2	4/19/2021	19000	2,600	3400	50	5	
#3	7/26/2021	480	790	15000	110	12	
#4	8/19/2021	350	360	16000	140	20	
#5	10/11/2021	370	410	11000	150	65	
#6	4/26/2022	110	12	13000	120	570	
#7	11/16/2022	55	13	10000	85	1100	
#8	4/18/2023	25	25	7800	54	1500	
#9	10/26/2023	67	25	6400	25	2000	
#10	4/17/2024	20	20	7900	60	2700	
#11	10/28/2024	25	25	8700	60	2100	
#12							
#13							
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	PCE	TCE	cDCE	tDCE	VC	
Confidence Level Calculated?	100.00%	97.00%	56.00%	82.10%	100.00%	NA
Plume Stability?	Shrinking	Shrinking	Stable	Stable	Expanding	NA
Coefficient of Variation?			CV <= 1	CV <= 1		n<4
Mann-Kendall Statistic "S" value?	-44	-26	-3	-14	45	0
Number of Sampling Rounds?	11	11	11	11	11	0
Average Concentration?	3318.36	459.95	9103.64	86.73	924.73	NA
Standard Deviation?	7045.45	772.38	4601.15	40.41	1004.66	NA
Coefficient of Variation?	2.12	1.68	0.51	0.47	1.09	NA
Blank if No Errors found						n<4



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)Site Name: *Plastic Sales and Services Site*Site Address: *6870 Woodlawn Avenue NE, Seattle, WA*Additional Description: *CVOCs*Well (Sampling) Location? **MW35**Level of Confidence (Decision Criteria)? **85%****1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.**

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	PCE	TCE	cDCE	VC		
#1	11/15/2022	3300	110	310	3		
#2	4/18/2023	240	25	340	1		
#3	10/26/2023	3600	220	1300	30		
#4	4/16/2024	4.7	2	26	0.32		
#5	10/28/2024	17	6	39	3		
#6							
#7							
#8							
#9							
#10							
#11							
#12							
#13							
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	PCE	TCE	cDCE	VC		
Confidence Level Calculated?	75.80%	75.80%	59.20%	59.20%	NA	NA
Plume Stability?	Undetermined	Undetermined	Undetermined	Undetermined	NA	NA
Coefficient of Variation?	CV > 1	CV > 1	CV > 1	CV > 1	n<4	n<4
Mann-Kendall Statistic "S" value?	-4	-4	-2	-2	0	0
Number of Sampling Rounds?	5	5	5	5	0	0
Average Concentration?	1432.34	72.54	403.00	7.38	NA	NA
Standard Deviation?	1847.29	93.34	522.46	12.68	NA	NA
Coefficient of Variation?	1.29	1.29	1.30	1.72	NA	NA
Blank if No Errors found					n<4	n<4

