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Seattle, Washington 98134

February 22, 2024

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

SUBJECT: 2023 PROGRESS REPORT
Plastic Sales and Services Site
6870 Woodlawn Avenue Northeast, Seattle, Washington
Project Number: 0651-002

Dear Ms. Sunny Becker:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this progress report to summarize activities completed during the year 2023 at the Plastic Sales and Services Site (the Site), Cleanup Site ID: 2074, which encompasses the property located at 6870 Woodlawn Avenue Northeast in Seattle, Washington (the Property) and adjacent rights-of-ways (ROWs). The Site is defined by the extent of contamination caused by the releases of hazardous substances at the former dry cleaning facility located on the Property and includes:

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

The work summarized below was conducted under a Consent Decree established between the Washington State Department of 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 3, 2016.

SITE ACTIVITIES: GROUNDWATER MONITORING SECOND AND FOURTH QUARTER 2023

The following sections summarize groundwater monitoring activities completed at the Site during the second and fourth quarters of 2023.

Groundwater Monitoring and Sampling

The 2023 second and fourth quarter groundwater monitoring and sampling at the Site occurred between April 17 and 20, 2023, and October 23 and 26, 2023, 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:** MW01 through MW03, MW05, MW06, MW15, MW19 (Q4 only), MW21, MW24 through MW28, MW30, MW32, MW34, and MW36, and injection wells IW08, IW16, IW21, IW31, IW33, IW57, IW59, and IW61.
- **Deep Water-Bearing Zone:** MW08 through MW11, MW13, MW22, MW29, MW31, MW33, MW35, and MW37 and injection wells IW07, IW15, IW22, IW32, IW34, and IW60.

Groundwater sampling was performed in accordance with the EPA *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* dated April 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. (OnSite) laboratory of Redmond, Washington, 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:

- Chlorinated volatile organic compounds (CVOCs) by US Environmental Protection Agency (EPA) Method 8260B/C
- Total organic carbon by Method SM 5310C
- Volatile fatty acids by EPA Methods 300.0 and 300.0 Modified
- Nitrate by EPA Method 353.2
- Sulfate by EPA Method 300.0
- Total iron and manganese by EPA Method 200.8
- Ferrous iron by EPA Method SM 3500-Fe B
- Methane, ethene, and ethane by Method RSK-175

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 and supplemental sampling events are summarized below and presented in Tables 1 through 5. Groundwater elevation contour maps and groundwater monitoring wells containing CVOCs for the 2023 second and fourth quarter sampling events are presented in Figures 1 through 4. This section of the report also discusses the results for a water sample collected from sub-slab drainage system beneath East Cove parking structure.

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 2023, 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 0.015 to 0.167 feet per foot during the second quarter of 2023 and 0.015 to 0.085 feet per foot during the fourth quarter of 2023. 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 2023 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 cleanup levels for groundwater are shown on Figures 1 and 3.

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 2023, groundwater flows to the northeast. The groundwater gradient in the deep water-bearing zone ranged from 0.020 to 0.039 feet per foot during the second quarter of 2023 and 0.013 to 0.040 feet per foot during the fourth quarter of 2023. 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 2023 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 cleanup levels for groundwater are shown on Figures 2 and 4.

Sub-Slab Drainage System

On November 28, 2023, SoundEarth collected a water sample from the sump attached to the sub-slab drainage system beneath the East Cove parking structure. The sump discharges to the sanitary sewer in Woodlawn Avenue ROW. The sump water sample was analyzed for CVOCs by EPA Method 8260D. CVOCs were not detected at concentrations above laboratory reporting limits in sump water sample. Results from the sump water sample are included in Attachment B, Laboratory Analytical Reports, Sub-Slab Drainage System. The sub-slab drainage system is discussed in Section 9.1 of the *Engineering Design Report, Plastic Sales and Services Site, 6870 Woodlawn Avenue Northeast, Seattle, Washington*, prepared by SoundEarth and dated May 9, 2016.

TEMPORAL ANALYSIS OF GROUNDWATER ANALYTICAL RESULTS

SoundEarth performed temporal analysis for monitoring or injection wells where CVOCs were detected at concentrations exceeding MTCA cleanup levels in the second and/or fourth quarter of 2023 and for which at least three groundwater sampling events have been performed. Groundwater cleanup levels are presented in Table 2.

The current extent of CVOCs in the shallow and deep water-bearing zone are shown on Figures 3 and 4. The temporal analyses were performed using Ecology's *Guidance on Remediation of Petroleum-Contaminated Groundwater by Natural Attenuation*, dated July 2005 (Module 2). The trend analyses are presented in Attachment A. The results of the temporal analyses as of the fourth quarter of 2023 are as follows.

Shallow Water-Bearing Zone

- IW08: In groundwater at injection well IW08, the concentrations of cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride (VC) are increasing with time. Tetrachloroethene (PCE), trichloroethene (TCE), and trans-1,2-dichloroethene (trans-1,2-DCE) were detected at concentrations below applicable cleanup levels for groundwater.

- IW16: In groundwater at injection well IW16, the concentration of VC is decreasing with time. PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- IW21: In groundwater at injection well IW21, the concentration of VC is decreasing with time. The temporal trend for cis-1,2-DCE is statistically undeterminable. PCE, TCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- IW59: In groundwater at injection well IW59, the concentration of VC is currently stable. PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- MW03: In groundwater at monitoring well MW03, the concentration of VC is currently decreasing with time. PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- MW05: In groundwater at monitoring well MW05, the concentration of VC is currently stable. PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- MW06: In groundwater at monitoring well MW06, the concentrations of cis-1,2-DCE and VC are currently stable. The temporal trends for PCE and TCE are undeterminable. Trans-1,2-DCE was detected at concentrations below applicable cleanup level for groundwater.
- MW24: In groundwater at monitoring well MW24, the concentration of VC is currently increasing with time. PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- MW28: In groundwater at monitoring well MW28, the concentrations of cis-1,2-DCE and VC are decreasing with time. The temporal trends for PCE and TCE are undeterminable. Trans-1,2-DCE was detected at concentrations below applicable cleanup level for groundwater.

Deep Water-Bearing Zone

- IW15: In groundwater at injection well IW15, the concentrations of cis-1,2 DCE and VC are increasing with time. PCE, TCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- IW22: In groundwater at injection well IW22, the concentrations of cis-1,2 DCE and VC are increasing with time. PCE, TCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- IW32: In groundwater at injection well IW32, the concentration of TCE is decreasing with time; the concentration of PCE is currently stable; and the concentrations of cis-1,2-DCE, and VC are increasing with time. Trans-1,2-DCE was detected at concentrations below applicable cleanup levels for groundwater.

- IW34: In groundwater at injection well IW34, the concentrations of PCE and TCE are decreasing with time, and concentrations of cis-1,2 DCE, trans 1,2-dichlorothene, and VC are increasing with time.
- MW09: In groundwater at monitoring well MW09, the concentration of PCE is increasing with time, and the concentrations of TCE and VC are currently stable. Cis-1,2 DCE and trans-1,2-dichlorothene were detected at concentrations below applicable cleanup levels for groundwater.
- MW10: In groundwater at monitoring well MW10, the concentration of TCE is increasing with time; the concentration of cis-1,2-DCE is currently stable; and concentrations of PCE and VC are increasing over time. Trans-1,2-DCE was detected at a concentration below the cleanup level for groundwater.
- MW31: In groundwater at monitoring well MW31, the concentration of VC is increasing with time; the concentration of cis-1,2-DCE is currently stable; and concentrations of PCE and TCE are decreasing with time.

ADDITIONAL SITE ACTIVITIES: VAPOR INTRUSION ASSESSMENT

SoundEarth conducted a vapor intrusion assessment at the Janke Property building to evaluate whether the known elevated CVOC concentrations present in groundwater adjacent to the Janke Property building are resulting in elevated CVOC concentrations in indoor air in the building. The assessment consisted of collecting three 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 2023.

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 4, 2023, SoundEarth collected three indoor air samples (IA01, IA02, and IA03), 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 (2023 Vapor Intrusion Assessment SAP). Sample locations are shown on Figure 5. Indoor air and outdoor air sample results are presented in Tables 7 and 8.

Indoor air, outdoor ambient air, and sub-slab soil gas samples were submitted to Friedman and Bruya, Inc. (F&B) laboratory for analysis of CVOCs by EPA Method TO-15. Sub-slab soil gas samples were submitted to F&B for analysis of helium by Method ASTM D1946. Additionally, the three indoor samples, one outdoor air sample, and two sub-slab soil gas samples were submitted to Doug Hammond at the University

of Southern California Dornsife for radon analysis by EPA Method Grab Sample/Scintillation Cell counting. Radon concentrations and attenuation calculations are presented in Table 9.

Analytical results from the indoor and outdoor ambient air samples indicated that TCE was detected below the MTCA Indoor Air Screening Levels for Commercial Workers in the three indoor air samples (IA01, IA02, and IA03). TCE was not detected in the ambient air sample (OA01). PCE, 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 or ambient air samples. Helium was not detected above laboratory reporting limits in sub-slab soil gas samples.

Radon results were used to calculate site-specific sub-slab soil gas CVOC concentrations for the Janke building that are protective indoors. The site-specific sub-slab soil gas concentrations were calculated using radon sample results from the indoor air and sub-slab soil gas samples at two of the three sample locations. The site-specific sub-slab soil gas CVOC concentrations were determined following the procedures outlined in the 2023 Vapor Intrusion Assessment SAP, and Ecology's *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action*, dated March 2022. Site-specific sub-slab soil gas CVOC concentrations for the Janke building that are protective indoors are presented in Table 9.

PLANNED ACTIVITIES: FIRST AND SECOND QUARTER 2024

Planned activities at the Site in the first and second quarters of 2024 are summarized below.

First Quarter 2024

SoundEarth will perform pilot test injections into existing injection wells along the northern and southern sides of Woodlawn Avenue Northeast. A detailed description of the activities planned for the pilot test is included in SoundEarth's *Groundwater Pilot Test Work Plan Addendum, Plastic Sales and Service Site, 6870 Woodlawn Avenue Northeast, Seattle, Washington,* dated December 5, 2023.

SoundEarth is currently in the process of obtaining a Utility Major Permit from the City of Seattle that is required to implement the pilot test in the ROWs.

Second Quarter 2024

SoundEarth will continue performing semiannual groundwater monitoring at 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 2023 progress report for this project. Please contact the undersigned at 206-390-1600 with any questions or comments.

Respectfully,

SoundEarth Strategies, Inc.

Linnea Coleman, GIT
Staff Geologist

Thomas Cammarata, LG, LHG
Principal Geochemist

Attachments: Figure 1, Q2 2023 CVOCs in Groundwater and Groundwater Contour Map for Shallow Zone Monitoring Wells
Figure 2, Q2 2023 CVOCs in Groundwater and Groundwater Contour Map for the Deep Zone Monitoring Wells
Figure 3, Q4 2023 CVOCs in Groundwater and Groundwater Contour Map for Shallow Zone Monitoring Wells
Figure 4, Q4 2023 CVOCs in Groundwater and Groundwater Contour Map for Deep Zone Monitoring Wells
Figure 5, Exploration Location Plan - 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 Q4 2023
Table 7, Summary of Indoor Air Analytical Results
Table 8, Summary of Sub-Slab Soil Gas Analytical Results
Table 9, Site Specific Sub-Slab Screening Level
Attachment A, Mann-Kendall Non-Parametric Trend Results
Attachment B, Laboratory Analytical Reports
Second Quarter 2023 Groundwater
OnSite Environmental Inc. #2304-204
OnSite Environmental Inc. #2304-205
OnSite Environmental Inc. #2304-224
OnSite Environmental Inc. #2304-233
Fourth Quarter 2023 Groundwater
OnSite Environmental Inc. #2310-300
OnSite Environmental Inc. #2310-304
OnSite Environmental Inc. #2310-305
OnSite Environmental Inc. #2310-319

OnSite Environmental Inc. #2310-320
OnSite Environmental Inc. #2311-125
OnSite Environmental Inc. #2311-195

Soil Vapor Assessment

Friedman & Bruya, Inc. #312050
Friedman & Bruya, Inc. #312051
Radon Analysis, Doug Hammond

Sub-Slab Drainage System

OnSite Environmental Inc. #2311-283

FIGURES

7/6/2023

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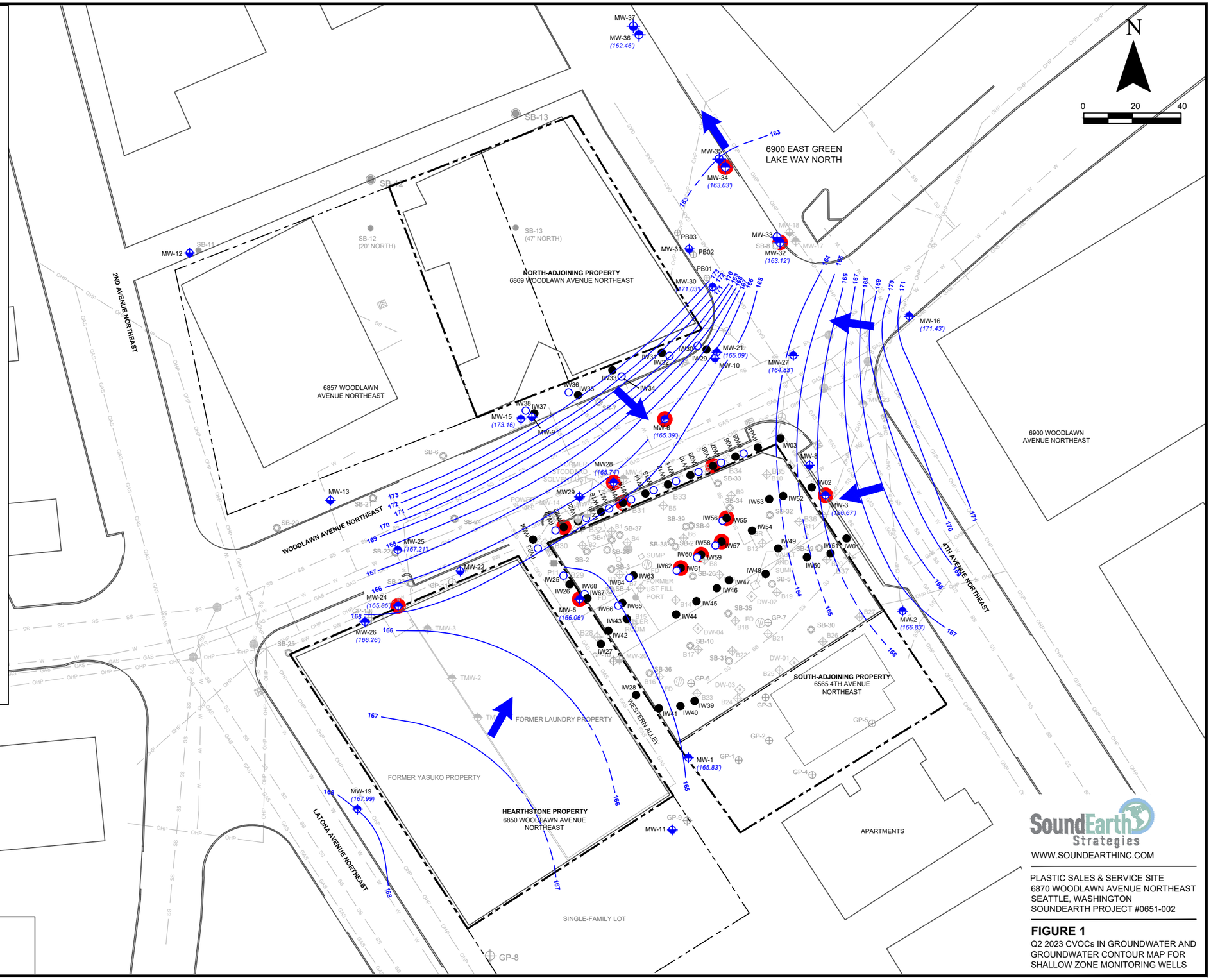
LEGEND

- 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 17, 2023) DASHED WHERE INFERRED
- (165.71') 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
- SW STORMWATER LINE
- GAS GAS LINE
- SS SANITARY SEWER LINE
- W WATER LINE
- OHP OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- FD FLOOR DRAIN
- UST UNDERGROUND STORAGE TANK
- DENOTES CVOC CONCENTRATION IN GROUNDWATER THAT EXCEEDS MTCA METHOD A OR B CLEANUP LEVEL

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 1
Q2 2023 CVOCs IN GROUNDWATER AND GROUNDWATER CONTOUR MAP FOR SHALLOW ZONE MONITORING WELLS

6/16/2023

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LEGEND

- CATCH BASIN
- MANHOLE
- SHALLOW-ZONE MONITORING WELL
- DEEP-ZONE MONITORING WELL
- DEEP DEWATERING WELL
- DEEP WATER-BEARING ZONE BORINGS (2022)
- SHALLOW INJECTION WELL
- DEEP INJECTION WELL
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW (DEEP ZONE)
- DEEP ZONE POTENTIOMETRIC SURFACE CONTOUR (APRIL 17, 2023)
- (168.03') GROUNDWATER ELEVATION
- 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
- SW STORMWATER LINE
- GAS GAS LINE
- SS SANITARY SEWER LINE
- W WATER LINE
- OHP OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- FD FLOOR DRAIN
- UST UNDERGROUND STORAGE TANK
- DENOTES CVOC CONCENTRATION IN GROUNDWATER THAT EXCEEDS MTCA METHOD A OR B CLEANUP LEVEL

NOTES:

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

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2ND AVENUE NORTHEAST

WOODLAWN AVENUE NORTHEAST

LATONA AVENUE NORTHEAST

4TH AVENUE NORTHEAST

6900 EAST GREEN LAKE WAY NORTH

6900 WOODLAWN AVENUE NORTHEAST

NORTH-ADJOINING PROPERTY
6869 WOODLAWN AVENUE NORTHEAST

6857 WOODLAWN AVENUE NORTHEAST

FORMER LAUNDRY PROPERTY

FORMER YASUKO PROPERTY

HEARTHSTONE PROPERTY
6850 WOODLAWN AVENUE NORTHEAST

SOUTH-ADJOINING PROPERTY
6565 4TH AVENUE NORTHEAST

APARTMENTS

SINGLE-FAMILY LOT

WESTERN ALLEY

FORMER STODDARD SOLVENT RECOVERY

MW-12 (167.89)
MW-13 (168.36)
MW-14
MW-15
MW-16
MW-17
MW-18
MW-19
MW-21
MW-22 (168.19')
MW-23
MW-24
MW-25
MW-26
MW-27
MW-28
MW-29 (168.26)
MW-30
MW-31 (164.05')
MW-32
MW-33 (163.50')
MW-34
MW-35 (162.93')
MW-36
MW-37 (162.33')
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-8 (165.81')
MW-9 (165.38')
MW-10 (165.16')
MW-11 (168.41')

DZ-B01
DZ-B02
DZ-B03
DZ-B04
DZ-B09

PB01
PB02
PB03

SB-11
SB-12 (20' NORTH)
SB-13 (47' NORTH)
SB-1
SB-2
SB-3
SB-4
SB-5
SB-6
SB-7
SB-8
SB-9
SB-10
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TMW-1
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FIGURE 2
Q2 2023 CVOCs IN GROUNDWATER AND GROUNDWATER CONTOUR MAP FOR DEEP ZONE MONITORING WELLS

11/29/2023

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LEGEND

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- DEEP DEWATERING WELL
- SHALLOW INJECTION WELL
- DEEP INJECTION WELL
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW (SHALLOW ZONE)
- SHALLOW ZONE POTENTIOMETRIC SURFACE CONTOUR (OCTOBER 23, 2023) DASHED WHERE INFERRED
- (165.71') 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
- SW STORMWATER LINE
- GAS GAS LINE
- SS SANITARY SEWER LINE
- W WATER LINE
- OHP OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- DENOTES CVOC CONCENTRATION IN GROUNDWATER THAT EXCEEDS MTCA METHOD A OR B CLEANUP LEVEL
- FD FLOOR DRAIN
- UST UNDERGROUND STORAGE TANK

NOTES:

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

N

0 20 40

6900 EAST GREEN LAKE WAY NORTH

6900 WOODLAWN AVENUE NORTHEAST

NORTH-ADJOINING PROPERTY
6869 WOODLAWN AVENUE NORTHEAST

6857 WOODLAWN AVENUE NORTHEAST

SOUTH-ADJOINING PROPERTY
6565 4TH AVENUE NORTHEAST

HEARTHSTONE PROPERTY
6850 WOODLAWN AVENUE NORTHEAST

FORMER LAUNDRY PROPERTY

FORMER YASUKO PROPERTY

SINGLE-FAMILY LOT

APARTMENTS

2ND AVENUE NORTHEAST

4TH AVENUE NORTHEAST

WOODLAWN AVENUE NORTHEAST

LATONA AVENUE NORTHEAST

WESTERN ALLEY

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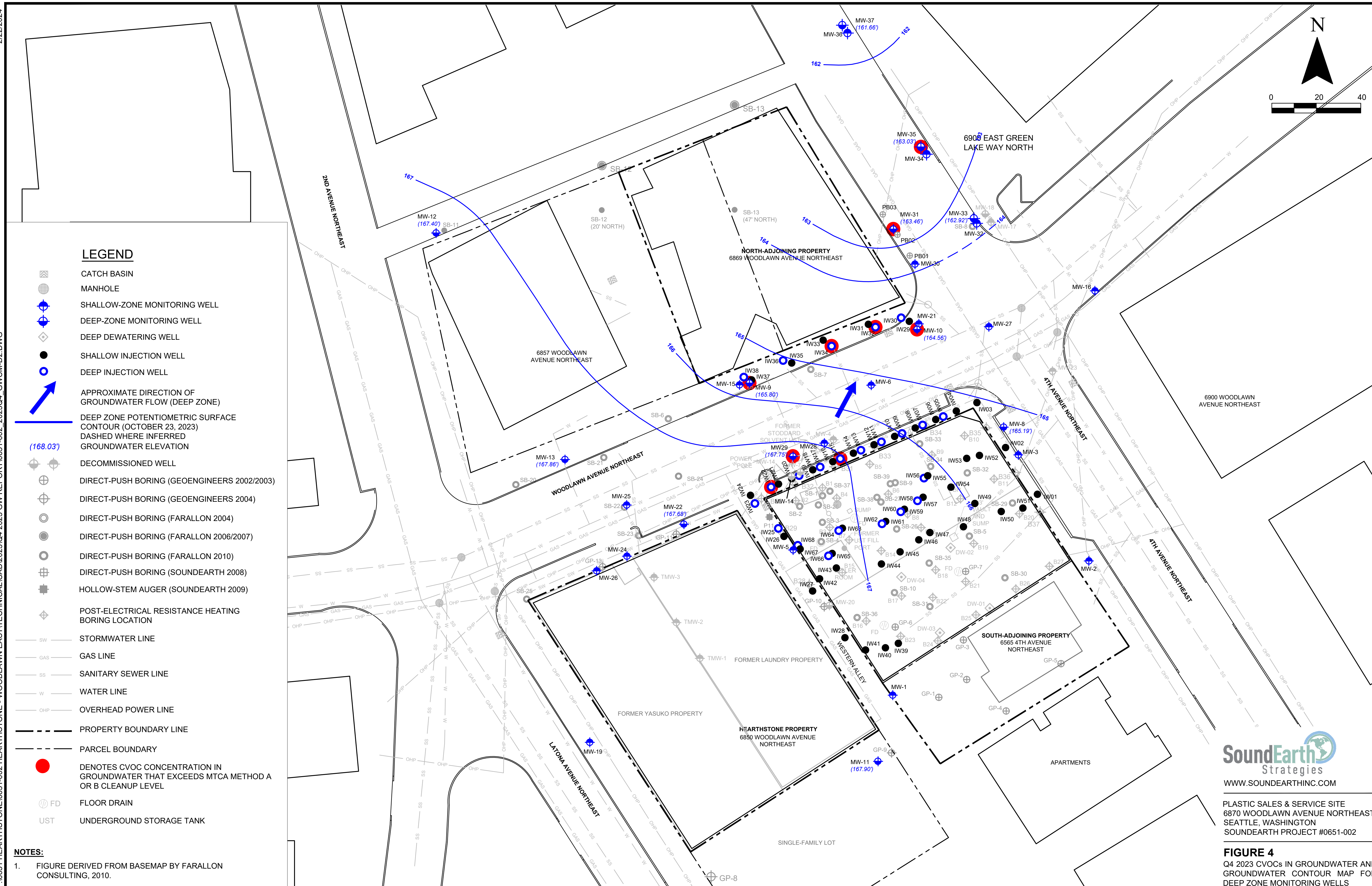
PLASTIC SALES & SERVICE SITE
6870 WOODLAWN AVENUE NORTHEAST
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0651-002

FIGURE 3
Q4 2023 CVOCs IN GROUNDWATER AND GROUNDWATER CONTOUR MAP FOR SHALLOW ZONE MONITORING WELLS

2/22/2024

P:\0651 HEARTHSTONE\0651-002 HEARTHSTONE - WOODLAWN EAST\TECHNICAL\CAD\2023\Q4 2023 GW REPORT\0651-002_2023Q4_GWCM-D2.DWG



12/11/2023

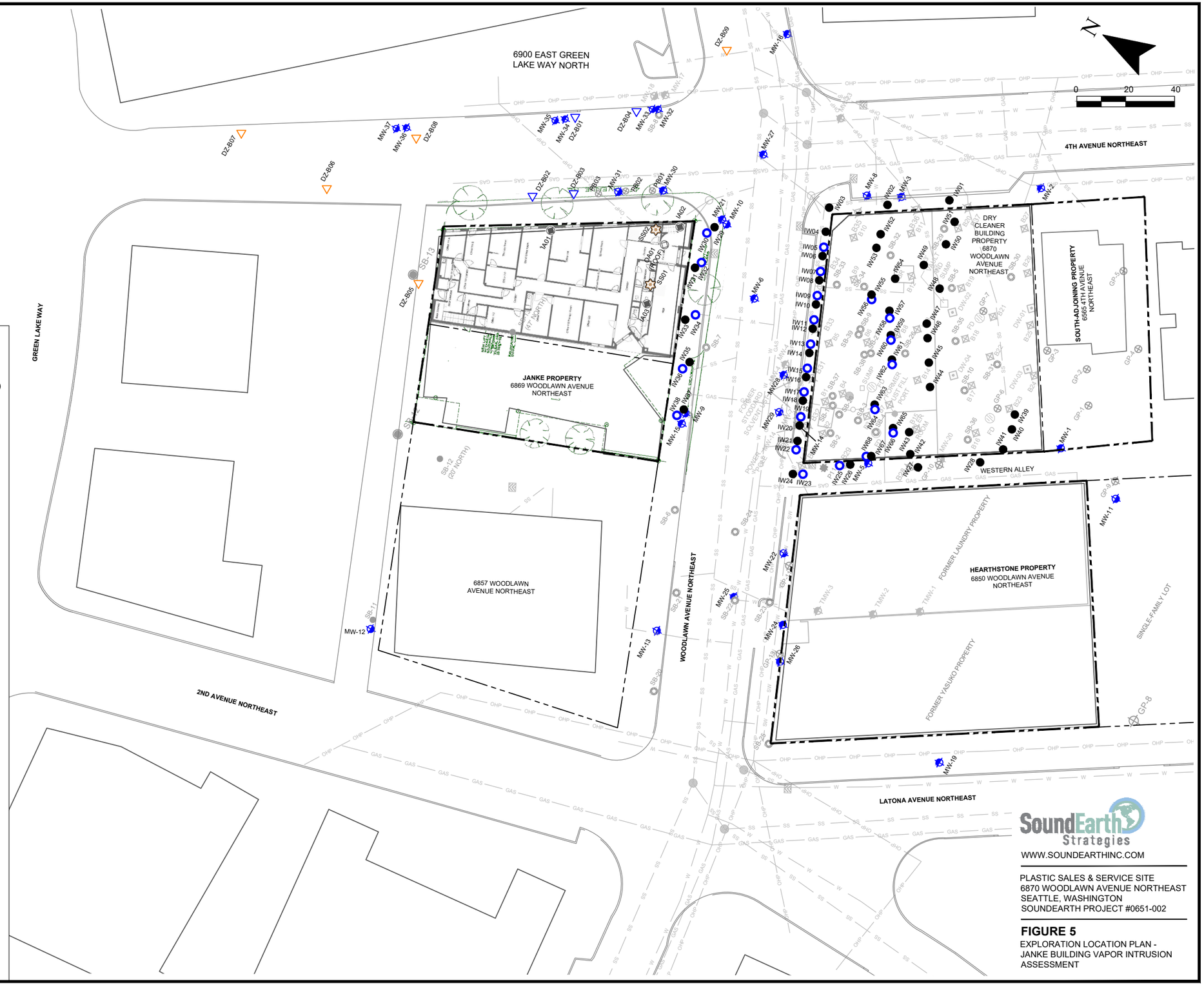
P:\0651 HEARTHSTONE\0651-002 HEARTHSTONE - WOODLAWN EAST\TECHNICAL\CAD\2023\JANKE BUILDING VI ASSESSMENT\0651-002_2023-JANKE VI.DWG

LEGEND

- INDOOR AIR SAMPLE LOCATION (SOUNDEARTH 2023)
- OUTDOOR AIR SAMPLE LOCATION (SOUNDEARTH 2023)
- SUB-SLAB SOIL GAS SAMPLE LOCATION (SOUNDEARTH 2023)
- 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
- SW — STORMWATER LINE
- GAS — GAS LINE
- SS — SANITARY SEWER LINE
- W — WATER LINE
- OHP — OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- FD — FLOOR DRAIN
- UST — UNDERGROUND STORAGE TANK

NOTES:

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



SoundEarth Strategies

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

FIGURE 5

EXPLORATION LOCATION PLAN - 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
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
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
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
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	--	--
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
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

Table 1
Summary of Groundwater Elevation Data
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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
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
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
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
			14.38	04/20/20	12.00	164.95
		176.82	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	--	--

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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						
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
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	--
			13.15	04/20/20	11.37	--
		175.91	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
			--	--	--	--
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
MW30	5 to 20	175.73	--	01/27/21	13.58	-13.58
			--	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
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
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
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
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					

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]
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
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
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
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

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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]
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
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
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
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

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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]
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
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
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
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
IW07	20 to 45	--	42.18	01/27/20	Too Much EOS	
IW15	20 to 45	--	38.40	01/27/20		
IW22	20 to 45	--	44.23	01/27/20		
IW34	20 to 45	--	43.61	01/27/20		
IW60	8 to 31	--	--	01/27/20		

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**
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								
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**
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
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
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
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								
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
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
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
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
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
	MW27-20231025	SoundEarth	10/25/23	13.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW28	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
	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
MW30	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
	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
MW32	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
MW34	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
MW36	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
TMW01	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								
TMW02	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								
TMW03	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**
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	IW33-20190312*	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
	IW33-20231023*	SoundEarth	10/23/23	14.50	0.90	0.21	< 0.20	< 0.20	< 0.20
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**
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**
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**
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**
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**
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**
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
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
	MW13-20181024	SoundEarth	10/24/18	58.00	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW14	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
	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
MW18	MW18-060106	Farallon	06/01/06	75.92	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	Monitoring Well Decommissioned								
MW20	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
	Monitoring Well Decommissioned								
MW22	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
	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	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
	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
MW31	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**
	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**
MW33	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
MW35	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**
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
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	IWI5-20200212*	SoundEarth	02/12/20	29.00	0.21	< 0.20	3.3	< 0.20	**0.58**
	IWI5-20200526*	SoundEarth	05/26/20	32.00	0.34	0.44	**18**	< 0.20	**11**
	IWI5-20200720*	SoundEarth	07/20/20	32.00	0.36	0.58	**28**	< 0.20	**19**
	IWI5-20201019*	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**
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
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	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
	IW34-20211011*	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
IW36	IW36-20190409*	SoundEarth	04/09/19	33.00	0.37	< 0.20	< 0.20	< 0.20	< 0.20
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
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.

[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

SoundEarth Strategies

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[2]	Total Manganese[3]	Dissolved Manganese[3]	Total Iron[3]	Ferrous Iron[4]	Ferric Iron[5]	Sulfate[6]	Methane[7]	Ethane[7]	Ethene[7]	Chloride[8]
Shallow Water-Bearing Zone Wells													
MW01	MW1-060206	06/02/06	16	--	0.02	1.3	0.00	1.30	16	<0.01	<0.01	<0.01	--
	MW1-20140910	09/10/14	4.1	--	<0.011	<0.06	0.041	0.00	26	<0.0005	<0.0005	<0.0005	--
	MW01-20200129	01/29/20	1.6	0.85	--	27	0.506	26	25	0.003	<0.00022	<0.00029	11
	MW01-20210420	04/20/21	2.1	<0.010	--	0.18	0.142	0.04	21	<0.00055	<0.00022	0.00029	7.9
MW05	MW05-20200128	01/28/20	<0.05	5.0	--	54	69.9	-16	<5.0	6.6	<0.022	<0.029	8.5
	MW05-20210421	04/21/21	<0.05	3.4	--	68	57.9	10.1	<5.0	3.4	<0.00022	<0.00029	19
	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
MW06	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
MW15	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
	MW15-20210420	04/20/21	1.1	0.45	--	26	0.545	25	16	2.6	<0.00022	<0.00029	81
	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	MW19-20231025	10/25/23	0.095	0.15	--	<0.056	<0.150	0.0	38.2	<0.00055	<0.00056	<0.00058	153
MW21	MW21-20181022	10/22/18	<0.05	1.6	--	0.46	0.093	0.37	67	0.043	<0.0030	<0.0030	11
	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
MW28	MW28-20200128	01/28/20	<0.05	0.50	--	0.32	0.456	-0.136	15	1.4	0.0045	0.037	110
	MW28-20210421	04/21/21	<0.05	0.59	--	0.9	1.2	-0.28	13	0.47	<0.00022	0.023	140
	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
MW32	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	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
Deep Water-Bearing Zone Wells													
MW07	MW7-060206	06/02/06	<0.15	--	0.10	4.3	0.00	4.30	65	0.33	<0.01	<0.01	--
	MW07-20140910	09/10/14	2.7	--	<0.011	<0.06	0.173	0.00	32	<0.0005	<0.0005	<0.0005	--
	Monitoring Well Decommissioned												
MW08	MW08-20140909	09/09/14	<0.05	--	0.17	<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
	MW08-20210420	04/20/21	<0.05	0.35	--	0.081	<0.100	0.00	40	<0.00055	<0.00022	<0.00029	8.8
MW09	MW09-20140910	09/10/14	4.7	--	<0.011	<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	--
	MW09-20220427	04/27/22	2.1	0.072	--	<0.050	<0.100	--	28	0.79	<0.00022	<0.00029	7.5
	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
MW10	MW10-20140910	09/10/14	<0.05	--	0.1	<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
	MW10-20210420	04/20/21	<0.05	0.24	--	0.680	0.893	-0.21	28	1.6	<0.00022	<0.00029	8.4
	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
MW11	MW11-060206	06/02/06	2.8	--	0.25	2.8	0.00	2.80	35	<0.01	<0.01	<0.01	--
	MW11-20141007	10/07/14	<0.05	--	0.019	<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
MW12	MW12-060206	06/02/06	<0.15	--	0.11	4.2	0.00	4.2	39	<0.01	<0.01	<0.01	--
MW13	MW13-060206	06/02/06	<0.15	--	0.24	2.2	0.00	2.2	35	<0.01	<0.01	<0.01	--
	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	MW14-060206	06/02/06	<0.15	--	0.32	1.9	0.0	1.9	34	<0.01	<0.01	<0.01	--
	Monitoring Well Decommissioned												
MW22	MW22-20140910	09/10/14	4.9	--	<0.011	<0.06	<0.04	0.00	24	<0.0005	<0.0005	<0.0005	--
	MW22-20200128	01/28/20	3.8	<0.011	--	0.094	0.101	-0.01	22	<0.00055	<0.00022	<0.00029	6.1
	MW22-20210420	04/20/21	2.4	<0.01	--	<0.05	<0.1	0.00	13	<0.00055	<0.00022	<0.00029	17
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
	MW29-20210420	04/20/21	<0.05	0.42	--	0.41	<0.100	0.310	33	0.00086	0.00024	0.00034	8.5
MW31	MW31-20210420	04/19/21	--	--	--	--	--	--	--	--	--	--	--
	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	--	<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
MW35	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	--	22.0	0.016	0.0032	0.0054	12.3

NOTES:

[1]Analyzed by field instrument.

[2]Analyzed by EPA Method 353.2.

[3]Analyzed by EPA Method 6010C or 6010D.

[4]Analyzed by EPA SM 3500-Fe B or Field Kit Instrument.

[5]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.

[6]Analyzed by ASTM D516-07 or D516-11.

[7]Analyzed by EPA Method RSK 175.

[8]Analyzed by EPA SM 4500-Cl E.

-- = not analyzed/not measured

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

EPA = US Environmental Protection Agency

SM = Standard Method

SoundEarth Strategies

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	--	--
	MW01-20230419	04/19/23	6.32	-31.6	0.280	<2000	12.24	6.65	--	--
	MW01-20231025	10/25/23	3.30	-23.1	0.304	30.3	14.80	6.58	--	--
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	--	--
	MW03-20231113	11/13/23	0.42	-164.4	0.874	6.02	12.99	6.6	--	--
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	MW06-20190207	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	--	--
	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
MW15	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
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

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)
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
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	--	--
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	--	--
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
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	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	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	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	--	--

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)
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	--	--
	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	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	--	--
	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
MW10	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	--	--
	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
MW11	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
	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
MW12	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	7.6	--	<1.0
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	--	--
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

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)
MW33	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	--	--
MW35	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
	MW35-20231026	10/26/23	0.03	-113.6	0.306	1.52	14.6	7.60	--	<1.0
MW37	MW37-20221115	11/15/22	0.18	-77.3	0.509	1.1	14.3	9.23	--	--
	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	--	--
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

$CaCO_3$ = calcium carbonate

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
MW06	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
MW15	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	MW19-20231025	10/25/23	<0.50	**0.84**[J]	<0.26	<0.25	<0.06	<0.75
MW21	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	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	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	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
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
MW10	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	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
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
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
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

NOTES:

Bold indicates concentration detected is above laboratory reporting limits.

Analyses performed by SiREM in Guelph, ON or AmTEST Lab oratories 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
Plastic Sales and Sevices 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	NA	NA	NA	NA	Decreasing	10/25/2023	22	6.9	< 0.20	27	2.3	4th Ave West ROW south of Woodlawn Ave. ROW
MW05	NA	NA	NA	NA	Stable	10/16/2023	< 0.20	0.35	0.72	< 0.20	1.7	Alley between east and west developments
MW06	Undeterminable	Undeterminable	NA	Stable	Stable	10/24/2023	17	33	< 0.80	48	72	Woodlawn Ave ROW downgradient of source area
MW24	NA	NA	NA	NA	Increasing	10/26/2023	0.35	< 0.02	< 0.20	0.31	0.88	Woodlawn Ave adjacent to former Laundry building
MW28	Undeterminable	Undeterminable	NA	Decreasing	Decreasing	10/26/2023	35	28	< 0.40	53	2.3	Woodlawn Ave ROW adjacent to former solvent tanks
IW08	NA	NA	NA	Increasing	Increasing	10/23/2023	1.6	0.84	< 0.40	51	1.9	Woodlawn Ave ROW south side
IW16	NA	NA	NA	NA	Decreasing	10/23/2023	1.2	1.4	< 0.20	6.0	10	Woodlawn Ave ROW proximal to former solvent tanks
IW21	NA	NA	NA	Undeterminable	Decreasing	10/23/2023	< 0.20	0.47	0.86	7.1	32	Woodlawn Ave ROW adjacent to former solvent tanks
IW59	NA	NA	NA	NA	Stable	10/23/2023	< 1.0	< 1.0	< 1.0	12	69	In parking garage of east development
Deep Zone							Deep Zone					Deep Zone
MW09	Increasing	Stable	NA	NA	Stable	10/25/2023	760	5.3	< 2.0	15	0.37	Southwest Corner of Janke building
MW10	Decreasing	Increasing	NA	Stable	Decreasing	10/25/2023	5	17	< 0.80	140	0.53	Southeast Corner of Janke building
MW31	Decreasing	Decreasing	NA	Stable	Increasing	10/26/2023	67	< 50	< 50	6,400	2,000	4th Ave West of Janke building
IW15	NA	NA	NA	Increasing	Increasing	10/23/2023	0.62	1.6	< 0.40	51	5.8	Southside of Woodlawn Ave in front of east development
IW22	NA	NA	NA	Increasing	Increasing	10/23/2023	< 1.0	< 1.0	< 1.0	36	72	Woodlawn Ave ROW adjacent to former solvent tanks
IW32	Stable	Decreasing	NA	Increasing	Increasing	10/23/2023	46	150	9,600	< 40	2,000	North side of Woodlawn in front of Janke building
IW34	Decreasing	Decreasing	Increasing	Increasing	Increasing	10/23/2023	< 200	< 200	510	5,600	16,000	North side of Woodlawn in front of Janke building

Notes

PCE = tetrachlorethylene

TCE = trichloroethylene

trans-1,2-DCE = trans-1,2-dichloroethylene

cis-1,2-DCE = cis-1,2-dichloroethylene

VC = vinyl chloride

MTCA = Washington State Department of Ecology Model Toxics Control Act

ROW = right-of-way

ug/L = micrograms per liter

NA = 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 2023

(1)MTCA Method A Cleanup Levels, Table 720-1 of WAC 173-340-900.

(2)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>.

Red = Indicates the concentration exceeds the cleanup level and or the laboratory detection limit exceed the cleanup level

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
IA02	IA02-20231204	Southeastern corner of Janke building		Indoor Air		<6.8	0.25	<0.4	<0.4	<0.26
IA03	IA03-20231204	Southern portion of Janke building		Indoor Air		<6.8	0.25	<0.4	<0.4	<0.26
OA01	OA01-20231204	Southeastern corner of Janke building roof		Outdoor Air		<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/m^3 = microgram per cubic meter
< = concentration not detected above the laboratory reporting limit
CLARC = Cleanup Levels and Risk Calculations
DCE = dicholorethene
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
SS02	SS02-20231204	Janke building - southern crawl space hatch			< 37	< 0.59	< 2.2	< 2.2	< 1.4
MTCA Sub-Slab Soil Gas Screening Levels for Commercial Workers					**1,500**[2]	**95**[2]	**5,200**[3]	**5,200**[3]	**44**[2]
Site-Specific Sub-Slab Soil Gas Screening Level[4]					**78,313**	**4,971**	**272,089**	**272,089**	**2,320**

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>.

[4]Site-specific sub-slab soil gas screening levels calculated using vapor attenuation factor of 0.001, as determined based on the results of radon sampling of sub-slab soil gas and indoor air conducted concurrently with sampling for chlorinated volatile organic compounds.

µg/m^3 = 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

Table 9
Site Specific Sub-Slab Screening Level
Plastic Sales and Service Site (Janke Building)
6870 Woodlawn Avenue Northeast
Seattle, Washington

Sample ID	Sample Date	Sample Type	Radon Conc. Indoor Air pCi/L ($C_{building}$)	Radon Conc. Sub-Slab pCi/L ($C_{sub-slab}$)	VAF (unit less)		Analyte of Interest	Indoor Air Cleanup Level[(1)] (ug/m^3)	Site Specific Sub-Slab Screening Level for the Protection of Indoor Air (ug/m^3)
IA02R-20231204	12/4/2023	Indoor Air	0.13	--	0.001		PCE	44.9	78,313
SS02R-20231204	12/4/2023	Sub-Slab	--	220			TCE	2.85	4,971
IA01R-20231204	12/4/2023	Indoor Air	0.20	--	0.001		cis and trans-12DCE	156	272,089
SS01R-20231204	12/4/2023	Sub-Slab	--	194					
Average building/Average Sub-Slab Conc.			0.16	209	0.001		VC	1.33	2,320

$C_{building} = aC_s$ $a = C_{building}/ C_s$
$C_{building}$ = concentration of the contaminant in the building (i.e., the indoor air concentration)
a = attenuation factor
C_s = vapor concentration at the source of the contamination (i.e., the sub-slab vapor concentration)
$SL_{SG} = SL_{IA}/VAF$
SL_{SG} = screening level in soil gas protective of indoor air, in mg/m3 (i.e., the site-specific MTCA Method B sub-slab soil gas
SL_{IA} = acceptable indoor air screening level, in micrograms per cubic meter or µg/m3 (i.e., the current MTCA Method B indoor air cleanup level)
VAF = vapor attenuation factor (calculated above)
(1) Commercial indoor air cleanup level per CLARC

ATTACHMENT A
MANN-KENDALL NON-PARAMETRIC TREND RESULTS

Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:	*Plastic Sales and Service*
Site Address:	*6870 Woodlawn Ave. NE., Seattle, WA*
Additional Description:	*CVOCs*

Well (Sampling) Location?	**IW08**
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	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							
#14							
#15							
#16							

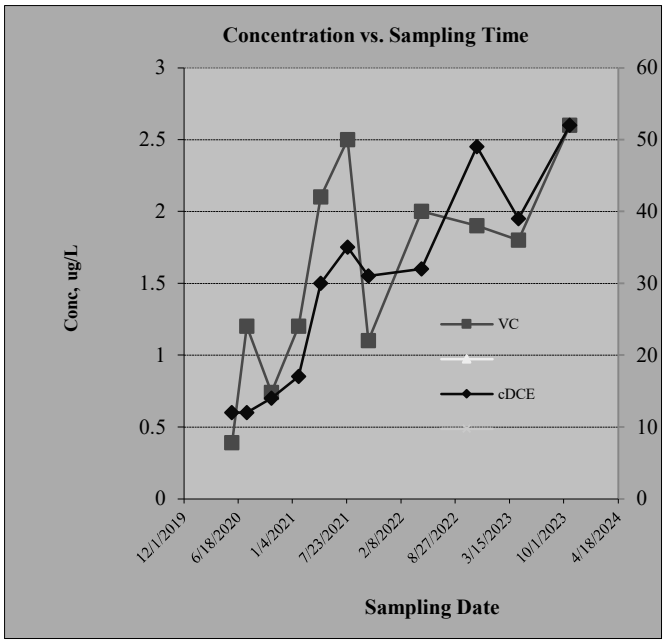
2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**cDCE**	**VC**				
Confidence Level Calculated?	100.00%	96.90%	NA	NA	NA	NA
Plume Stability?	***Expanding***	***Expanding***	NA	NA	NA	NA
Coefficient of Variation?			n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	57	28	0	0	0	0
Number of Sampling Rounds?	12	12	0	0	0	0
Average Concentration?	31.17	1.62	NA	NA	NA	NA
Standard Deviation?	14.94	0.69	NA	NA	NA	NA
Coefficient of Variation?	0.48	0.43	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 Time

Hazardous substance? **VC**

Plume 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?	**IW16**
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	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							
#14							
#15							
#16							

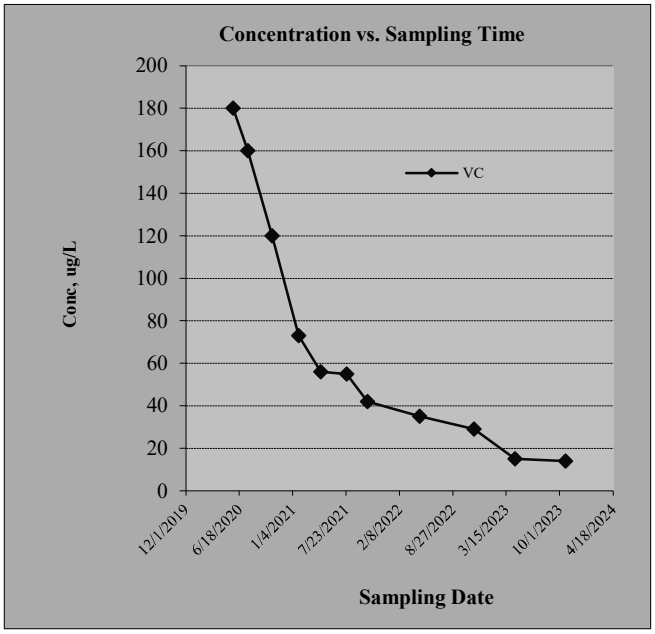
2. Mann-Kendall Non-parametric Statistical Test Results

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?	-66	0	0	0	0	0
Number of Sampling Rounds?	12	0	0	0	0	0
Average Concentration?	65.75	NA	NA	NA	NA	NA
Standard Deviation?	57.50	NA	NA	NA	NA	NA
Coefficient of Variation?	0.87	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 Time

Hazardous substance? **VC**

Plume Stability? **Shrinking**



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:	*Plastic Sales and Services Site*
Site Address:	*6870 Woodlawn Ave. NE, Seatte, WA*
Additional Description:	*Cholorinated Solvents*

Well (Sampling) Location?	**IW21**
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	cis-1,2-DCE	VC				
#1	2/12/2020	81	1500				
#2	5/26/2020	1	330				
#3	7/20/2020	6.7	400				
#4	10/19/2020	4	740				
#5	1/27/2021	0.4	87				
#6	4/19/2021	11	380				
#7	7/26/2021	1.1	25				
#8	10/11/2021	4.2	50				
#9	4/25/2022	120	300				
#10	11/15/2022	1.5	4.5				
#11	4/17/2023	78	180				
#12	10/23/2023	78	180				
#13							
#14							
#15							
#16							

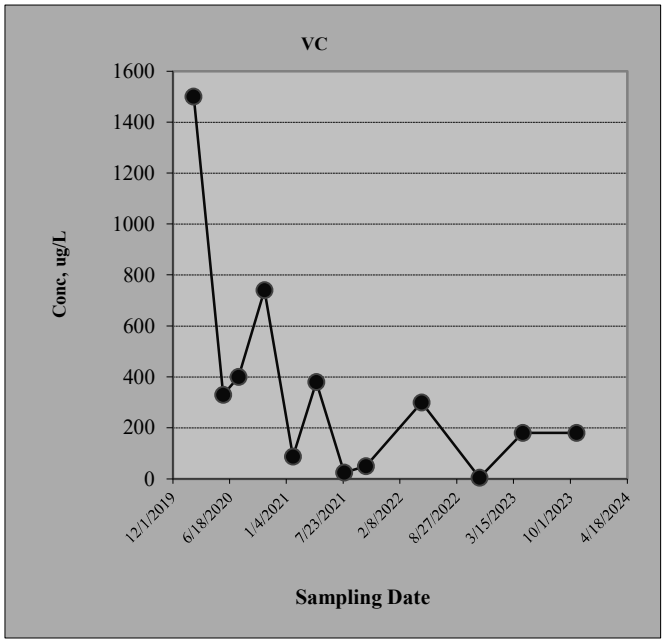
2. Mann-Kendall Non-parametric Statistical Test Results

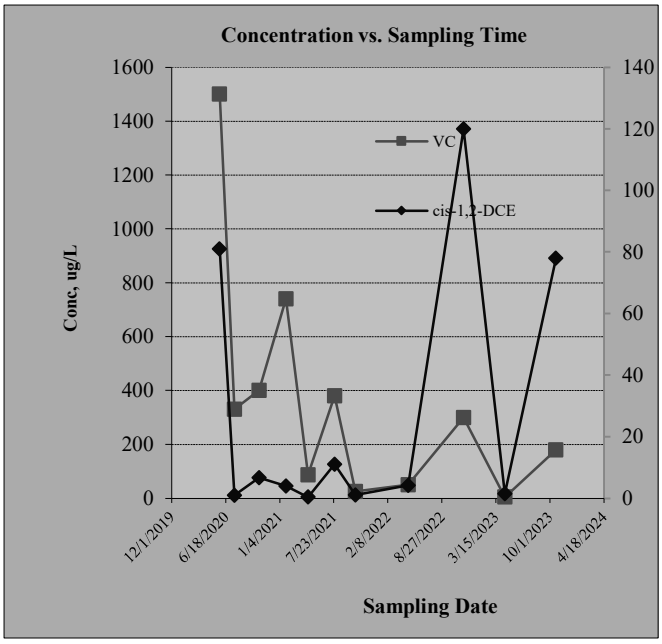
Hazardous Substance?	**cis-1,2-DCE**	**VC**				
Confidence Level Calculated?	77.00%	97.80%	NA	NA	NA	NA
Plume Stability?	Undetermined	Shrinking	NA	NA	NA	NA
Coefficient of Variation?	CV > 1		n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	13	-31	0	0	0	0
Number of Sampling Rounds?	12	12	0	0	0	0
Average Concentration?	32.24	348.04	NA	NA	NA	NA
Standard Deviation?	43.55	418.09	NA	NA	NA	NA
Coefficient of Variation?	1.35	1.20	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 Time

Hazardous substance? **VC**

Plume Stability? **Shrinking**





Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:	*Plastic Sales Site*
Site Address:	*6870 Woodlawn Ave. NE*
Additional Description:	*CVOCs*

Well (Sampling) Location?	**IW15**
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	cis-1,2-DCE	VC				
#1	2/12/2020	1	0.24				
#2	5/26/2020	1.4	3				
#3	7/20/2020	2.3	6.9				
#4	10/19/2020	5	15				
#5	1/27/2021	11	41				
#6	4/19/2021	42	79				
#7	7/26/2021	61	87				
#8	10/11/2021	94	130				
#9	4/25/2022	140	160				
#10	11/15/2022	140	100				
#11	04/17/23	43	130				
#12	10/23/23	12	69				
#13							
#14							
#15							
#16							

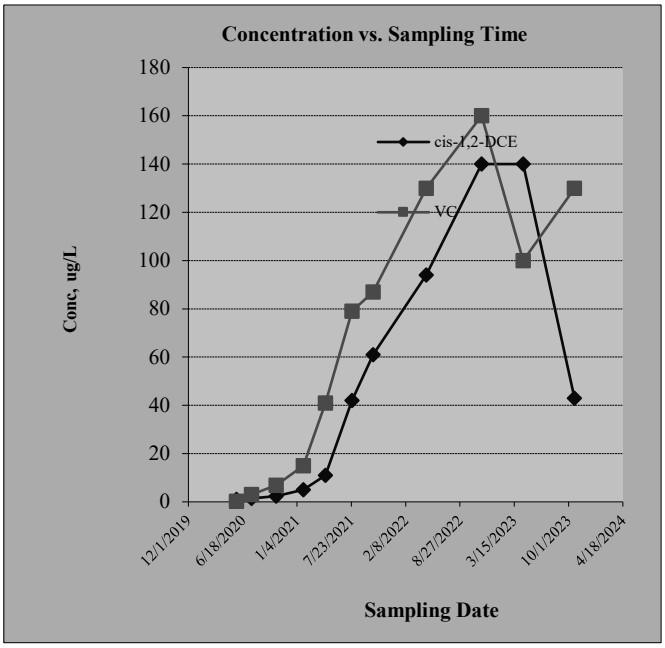
2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**cis-1,2-DCE**	**VC**				
Confidence Level Calculated?	99.90%	100.00%	NA	NA	NA	NA
Plume Stability?	***Expanding***	***Expanding***	NA	NA	NA	NA
Coefficient of Variation?			n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	45	47	0	0	0	0
Number of Sampling Rounds?	12	12	0	0	0	0
Average Concentration?	46.06	68.43	NA	NA	NA	NA
Standard Deviation?	52.41	55.39	NA	NA	NA	NA
Coefficient of Variation?	1.14	0.81	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 Time

Hazardous substance? **VC**

Plume Stability? **Expanding**



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:	*Plastic Sales Site*
Site Address:	*6870 Woodlawn Ave. NE*
Additional Description:	*CVOCs*

Well (Sampling) Location?	**MW03**
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	10/25/2018	0.2					
#2	1/29/2020	16					
#3	4/21/2020	7.4					
#4	7/20/2020	13					
#5	10/20/2020	7.3					
#6	1/28/2021	4.2					
#7	4/20/2021	3.4					
#8	7/27/2021	2.1					
#9	10/12/2021	1.8					
#10	4/25/2022	2.7					
#11	4/27/2022	2.6					
#12	11/17/2022	1.9					
#13	4/19/2023	1.1					
#14	10/25/2023	2.3					
#15							
#16							

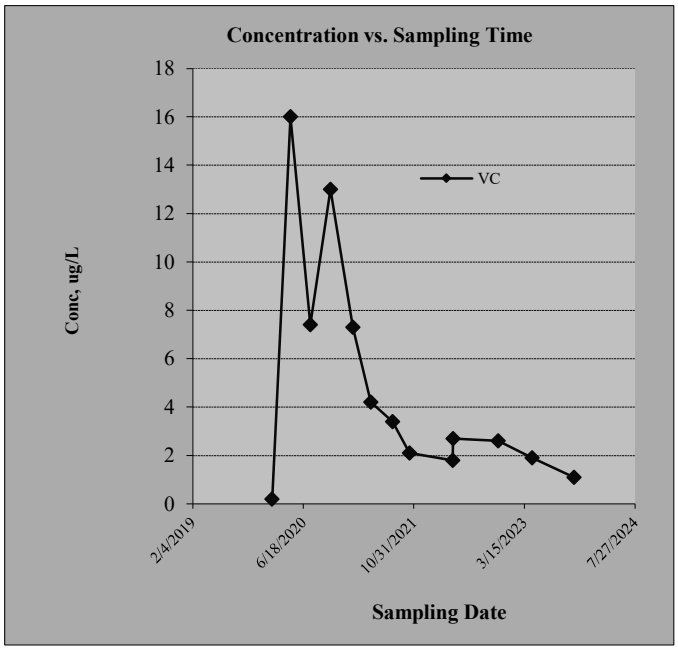
2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**VC**					
Confidence Level Calculated?	99.30%	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?	-45	0	0	0	0	0
Number of Sampling Rounds?	14	0	0	0	0	0
Average Concentration?	4.71	NA	NA	NA	NA	NA
Standard Deviation?	4.67	NA	NA	NA	NA	NA
Coefficient of Variation?	0.99	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 Time

Hazardous substance? **VC**

Plume Stability? **Shrinking**



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:	*Plastic Sales Site*
Site Address:	*6870 Woodlawn Ave. NE, Seattle, WA*
Additional Description:	*CVOCs*

Well (Sampling) Location? **MW05**
Level of Confidence (Decision Criteria)? **85%**

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

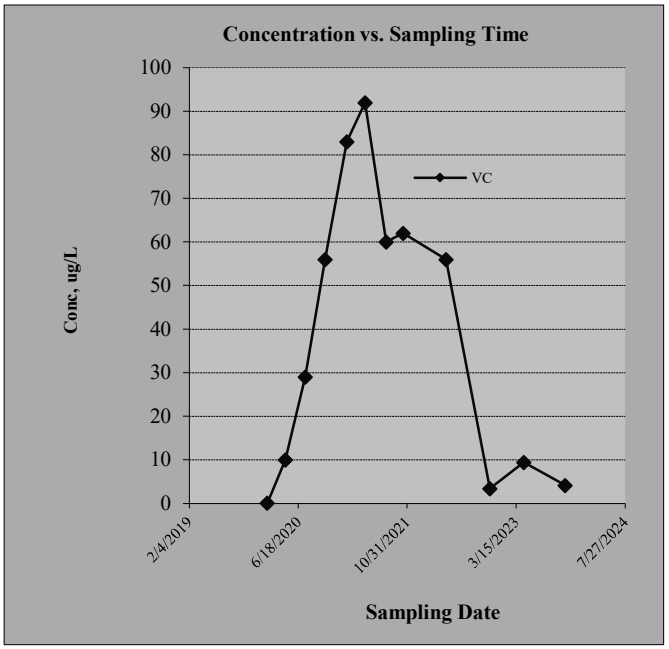
		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	2/7/2019	0.1					
#2	1/28/2020	10					
#3	4/21/2020	29					
#4	7/20/2020	56					
#5	10/20/2020	83					
#6	1/28/2021	92					
#7	4/21/2021	60					
#8	7/27/2021	62					
#9	10/13/2021	56					
#10	4/27/2022	3.4					
#11	11/14/2022	9.4					
#12	4/20/2023	4.1					
#13	10/26/2023	1.7					
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**VC**					
Confidence Level Calculated?	70.50%	NA	NA	NA	NA	NA
Plume Stability?	Stable	NA	NA	NA	NA	NA
Coefficient of Variation?	CV <= 1	n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	-11	0	0	0	0	0
Number of Sampling Rounds?	13	0	0	0	0	0
Average Concentration?	35.90	NA	NA	NA	NA	NA
Standard Deviation?	33.39	NA	NA	NA	NA	NA
Coefficient of Variation?	0.93	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 Time

Hazardous substance? **VC**
Plume Stability? **Stable**



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:	*Plastic Sales and Service*
Site Address:	*6870 Woodlawn Ave NE*
Additional Description:	

Well (Sampling) Location?	**MW06**
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	DCE	VC		
#1	1/28/2020	38	130	210	33		
#2	4/21/2020	1.2	8.7	42	26		
#3	7/21/2020	1.1	10	32	25		
#4	10/20/2020	1.7	29	63	36		
#5	1/28/2021	2.4	30	74	59		
#6	4/20/2021	1.6	27	120	160		
#7	7/27/2021	0.93	8.8	14	10		
#8	10/12/2021	0.33	2	18	14		
#9	4/26/2022	11	27	20	13		
#10	11/15/2022	0.67	7.4	20	17		
#11	4/18/2023	17	40	51	85		
#12	10/24/2023	17	33	48	72		
#13							
#14							
#15							
#16							

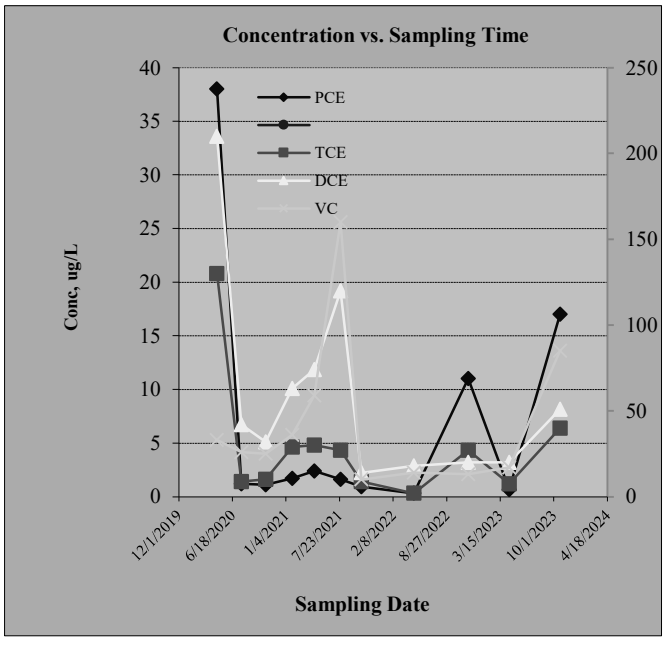
2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**PCE**	**TCE**	**DCE**	**VC**		
Confidence Level Calculated?	47.30%	47.30%	77.00%	58.00%	NA	NA
Plume Stability?	Undetermined	Undetermined	Stable	Stable	NA	NA
Coefficient of Variation?	CV > 1	CV > 1	CV <= 1	CV <= 1	n<4	n<4
Mann-Kendall Statistic "S" value?	1	-1	-13	4	0	0
Number of Sampling Rounds?	12	12	12	12	0	0
Average Concentration?	7.74	29.41	59.33	45.83	NA	NA
Standard Deviation?	11.44	34.01	56.18	43.40	NA	NA
Coefficient of Variation?	1.48	1.16	0.95	0.95	NA	NA
Blank if No Errors found					n<4	n<4

3. Temporal Trend: Plot of Concentration vs. Sampling Time

Hazardous substance? **TCE**

Plume Stability? **Undetermined**



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							
#15							
#16							

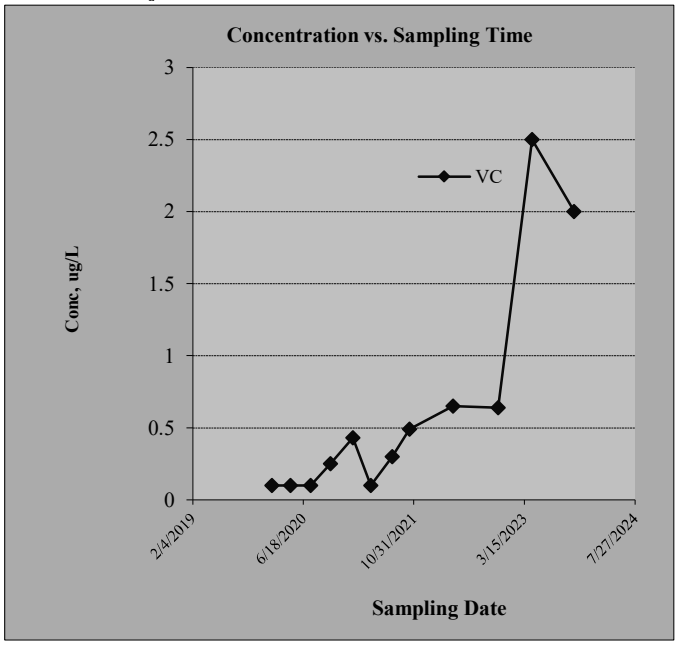
2. Mann-Kendall Non-parametric Statistical Test Results

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?	58	0	0	0	0	0
Number of Sampling Rounds?	13	0	0	0	0	0
Average Concentration?	0.66	NA	NA	NA	NA	NA
Standard Deviation?	0.76	NA	NA	NA	NA	NA
Coefficient of Variation?	1.15	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 Time

Hazardous substance? **VC**

Plume Stability? **Expanding**



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:	*Plastic Sales and Service*
Site Address:	*6870 Woodlawn Ave. NE., Seattle, WA*
Additional Description:	*CVOCs*

Well (Sampling) Location?	**MW28**
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	6/4/2019	3.1	4.9	50	16		
#2	1/28/2020	330	150	710	130		
#3	4/22/2020	35	15	280	65		
#4	7/21/2020	21	18	200	60		
#5	10/20/2020	16	13	170	50		
#6	1/28/2021	44	26	200	49		
#7	4/21/2021	21	5.6	180	41		
#8	7/27/2021	48	34	61	23		
#9	10/13/2021	24	29	68	19		
#10	4/27/2022	5.7	5.6	150	31		
#11	11/17/2022	3.7	6.1	100	21		
#12	4/20/2023	23	18	79	9.7		
#13	10/26/2023	35	28	53	2.3		
#14							
#15							
#16							

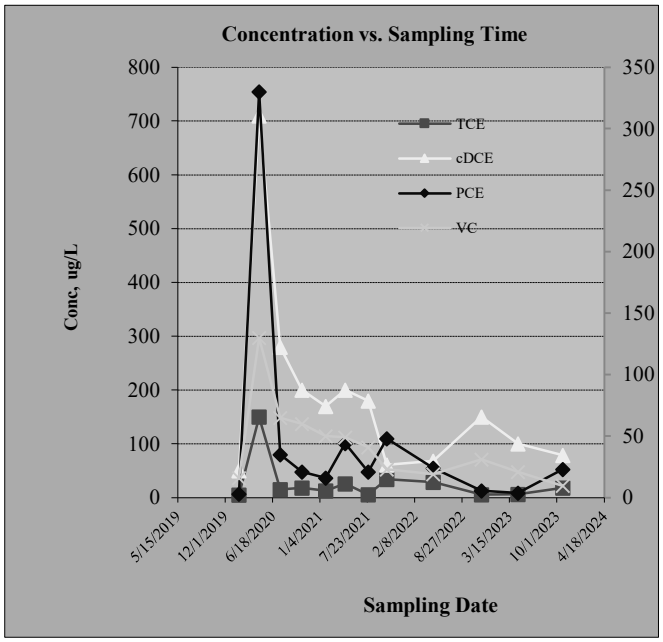
2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**PCE**	**TCE**	**cDCE**	**VC**		
Confidence Level Calculated?	57.10%	61.70%	97.90%	100.00%	NA	NA
Plume Stability?	Undetermined	Undetermined	Shrinking	Shrinking	NA	NA
Coefficient of Variation?	CV > 1	CV > 1			n<4	n<4
Mann-Kendall Statistic "S" value?	-4	6	-35	-52	0	0
Number of Sampling Rounds?	13	13	13	13	0	0
Average Concentration?	46.88	27.17	177.00	39.77	NA	NA
Standard Deviation?	86.27	38.22	175.34	33.41	NA	NA
Coefficient of Variation?	1.84	1.41	0.99	0.84	NA	NA
Blank if No Errors found					n<4	n<4

3. Temporal Trend: Plot of Concentration vs. Sampling Time

Hazardous substance? **VC**

Plume Stability? **Shrinking**



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:	*Plastic Sales Site*
Site Address:	*6870 Woodlawn Ave. NE*
Additional Description:	*CVOCs*

Well (Sampling) Location? **IW15**
Level of Confidence (Decision Criteria)? **85%**

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

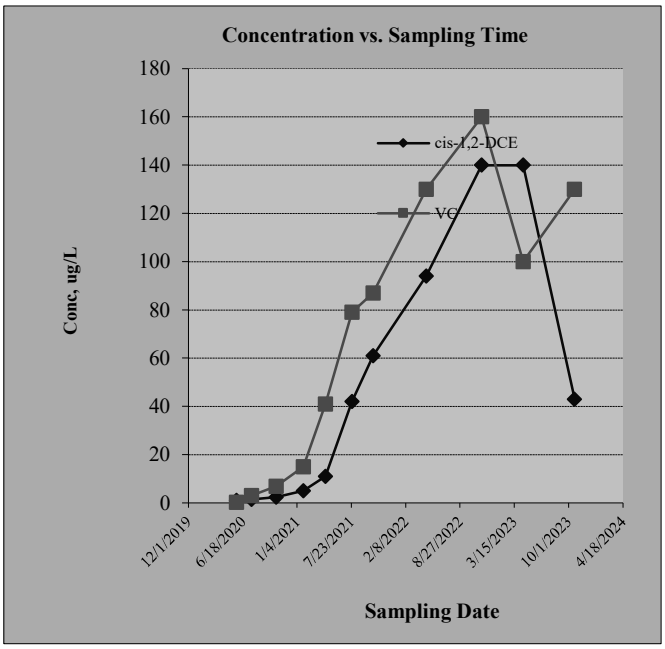
		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	cis-1,2-DCE	VC				
#1	2/12/2020	1	0.24				
#2	5/26/2020	1.4	3				
#3	7/20/2020	2.3	6.9				
#4	10/19/2020	5	15				
#5	1/27/2021	11	41				
#6	4/19/2021	42	79				
#7	7/26/2021	61	87				
#8	10/11/2021	94	130				
#9	4/25/2022	140	160				
#10	11/15/2022	140	100				
#11	04/17/23	43	130				
#12	10/23/23	12	69				
#13							
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**cis-1,2-DCE**	**VC**				
Confidence Level Calculated?	99.90%	100.00%	NA	NA	NA	NA
Plume Stability?	***Expanding***	***Expanding***	NA	NA	NA	NA
Coefficient of Variation?			n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	45	47	0	0	0	0
Number of Sampling Rounds?	12	12	0	0	0	0
Average Concentration?	46.06	68.43	NA	NA	NA	NA
Standard Deviation?	52.41	55.39	NA	NA	NA	NA
Coefficient of Variation?	1.14	0.81	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 Time

Hazardous substance? **VC**
Plume Stability? **Expanding**



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:	*Plastic Sales Site*
Site Address:	*6870 Woodlawn Ave. NE*
Additional Description:	*CVOCs*

Well (Sampling) Location?	**IW22**
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	cis-1,2-DCE	VC				
#1	02/12/20	1.5	30				
#2	05/26/20	4.8	91				
#3	07/20/20	8.5	160				
#4	10/19/20	8.2	150				
#5	01/27/21	12	180				
#6	04/19/21	17	210				
#7	07/26/21	16	250				
#8	10/11/21	20	240				
#9	04/25/22	30	280				
#10	11/15/22	33	190				
#11	04/17/23	37	170				
#12	10/23/23	36	72				
#13							
#14							
#15							
#16							

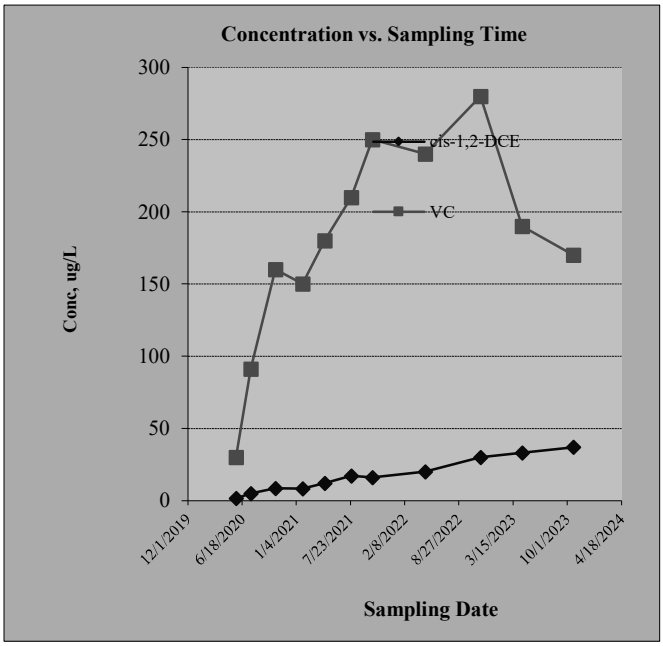
2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**cis-1,2-DCE**	**VC**				
Confidence Level Calculated?	100.00%	92.40%	NA	NA	NA	NA
Plume Stability?	***Expanding***	***Expanding***	NA	NA	NA	NA
Coefficient of Variation?			n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	60	22	0	0	0	0
Number of Sampling Rounds?	12	12	0	0	0	0
Average Concentration?	18.67	168.58	NA	NA	NA	NA
Standard Deviation?	12.53	74.72	NA	NA	NA	NA
Coefficient of Variation?	0.67	0.44	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 Time

Hazardous substance? **VC**

Plume Stability? **Expanding**



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:	*Plastic Sales Site*
Site Address:	*6870 Woodlawn Ave. NE*
Additional Description:	*CVOCs*

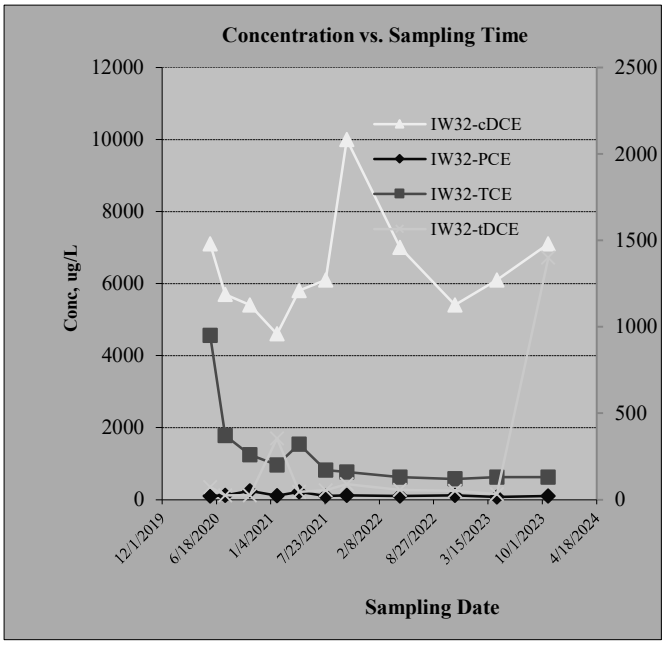
Well (Sampling) Location?	**IW32**
Level of Confidence (Decision Criteria)?	**85%**

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	IW32-PCE	IW32-TCE	IW32-cDCE	IW32-tDCE		
#1	2/12/2020	20	950	7100	73		
#2	5/26/2020	25	370	5700	25		
#3	7/20/2020	50	260	5400	25		
#4	10/19/2020	23	200	4600	353		
#5	1/27/2021	45	320	5800	45		
#6	4/19/2021	20	170	6100	53		
#7	7/26/2021	25	160	10000	89		
#8	10/11/2021	20	130	7000	55		
#9	4/25/2022	25	120	5400	50		
#10	11/14/2022	15	130	6100	32		
#11	4/17/2023	20	130	7100	1400		
#12	10/23/2023	46	150	9600	2000		
#13							
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**IW32-PCE**	**IW32-TCE**	**IW32-cDCE**	**IW32-tDCE**		
Confidence Level Calculated?	63.10%	100.00%	90.20%	90.20%	NA	NA
Plume Stability?	Stable	Shrinking	***Expanding***	***Expanding***	NA	NA
Coefficient of Variation?	CV <= 1				n<4	n<4
Mann-Kendall Statistic "S" value?	-7	-47	21	21	0	0
Number of Sampling Rounds?	12	12	12	12	0	0
Average Concentration?	27.83	257.50	6658.33	350.00	NA	NA
Standard Deviation?	11.96	232.74	1651.70	649.51	NA	NA
Coefficient of Variation?	0.43	0.90	0.25	1.86	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 Site*
Site Address:	*6870 Woodlawn Ave. NE*
Additional Description:	*CVOCs*

Well (Sampling) Location? **IW34**
Level of Confidence (Decision Criteria)? **85%**

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

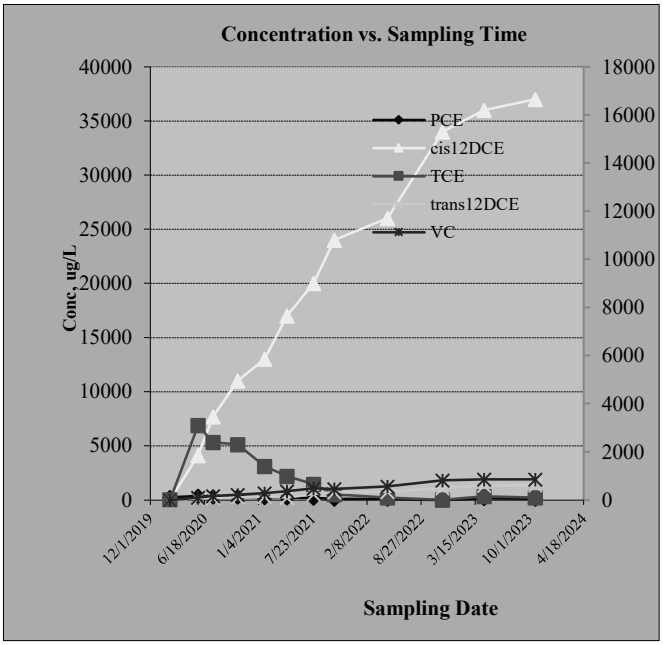
		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	PCE	TCE	cis12DCE	trans12DCE	VC	
#1	4/9/2019	230	21	11	0.5	1	
#2	2/12/2020	360	3100	4100	50	100	
#3	5/26/2020	310	2400	7700	83	160	
#4	7/20/2020	290	2300	11000	110	220	
#5	10/19/2020	230	1400	13000	140	280	
#6	1/27/2021	200	990	17000	100	360	
#7	4/19/2021	170	650	20000	240	480	
#8	7/26/2021	100	230	24000	320	460	
#9	10/11/2021	100	100	26000	330	560	
#10	4/25/2022	5	5	34000	500	810	
#11	11/14/2022	150	150	36000	600	860	
#12	04/17/23	100	100	37000	620	860	
#13	10/23/23	100	100	5600	510	16000	
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**PCE**	**TCE**	**cis12DCE**	**trans12DCE**	**VC**	
Confidence Level Calculated?	100.00%	99.70%	100.00%	100.00%	100.00%	NA
Plume Stability?	Shrinking	Shrinking	***Expanding***	***Expanding***	***Expanding***	NA
Coefficient of Variation?						n<4
Mann-Kendall Statistic "S" value?	-55	-45	58	70	75	0
Number of Sampling Rounds?	13	13	13	13	13	0
Average Concentration?	180.38	888.15	18108.54	277.19	1627.00	NA
Standard Deviation?	101.66	1075.25	12571.50	219.02	4327.92	NA
Coefficient of Variation?	0.56	1.21	0.69	0.79	2.66	NA
Blank if No Errors found						n<4

3. Temporal Trend: Plot of Concentration vs. Sampling Time

Hazardous substance? **VC**
Plume 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%**

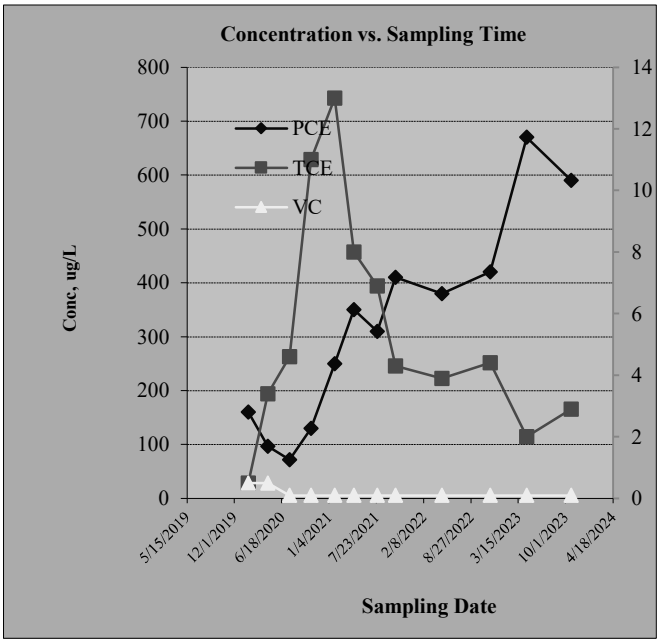
1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

		Hazardous Substances (unit is ug/L)					
Sampling Event		PCE	TCE	VC			
#1	10/24/2018	160	0.5	0.5			
#2	1/29/2020	97	3.4	0.5			
#3	4/21/2020	72	4.6	0.1			
#4	7/21/2020	130	11	0.1			
#5	10/20/2020	250	13	0.1			
#6	1/28/2021	350	8	0.1			
#7	4/20/2021	310	6.9	0.1			
#8	7/27/2021	410	4.3	0.1			
#9	10/13/2021	380	3.9	0.1			
#10	4/27/2022	420	4.4	0.1			
#11	11/17/2022	670	2	0.1			
#12	4/20/2023	590	2.9	0.1			
#13	10/25/2023	760	5.3	0.37			
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**PCE**	**TCE**	**VC**			
Confidence Level Calculated?	100.00%	66.20%	74.50%	NA	NA	NA
Plume Stability?	***Expanding***	Stable	Stable	NA	NA	NA
Coefficient of Variation?		CV <= 1	CV <= 1	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	64	-8	-12	0	0	0
Number of Sampling Rounds?	13	13	13	0	0	0
Average Concentration?	353.77	5.40	0.18	NA	NA	NA
Standard Deviation?	218.84	3.52	0.16	NA	NA	NA
Coefficient of Variation?	0.62	0.65	0.87	NA	NA	NA
Blank if No Errors found				n<4	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%**

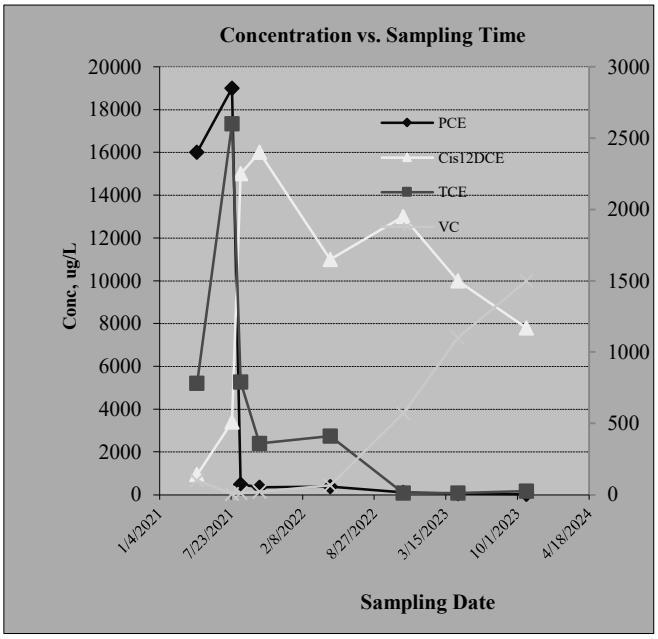
1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	PCE	TCE	Cis12DCE	VC		
#1	1/27/2021	16000	780	940	100		
#2	4/19/2021	19000	2,600	3400	5		
#3	7/26/2021	480	790	15000	12		
#4	8/19/2021	350	360	16000	20		
#5	10/11/2021	370	410	11000	65		
#6	4/26/2022	110	12	13000	570		
#7	11/16/2022	55	13	10000	1100		
#8	4/18/2023	25	25	7800	1500		
#9	10/26/2023	67	25	6400	2000		
#10							
#11							
#12							
#13							
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**PCE**	**TCE**	**Cis12DCE**	**VC**		
Confidence Level Calculated?	99.90%	96.20%	54.00%	99.90%	NA	NA
Plume Stability?	Shrinking	Shrinking	Stable	***Expanding***	NA	NA
Coefficient of Variation?			CV <= 1		n<4	n<4
Mann-Kendall Statistic "S" value?	-28	-19	-2	28	0	0
Number of Sampling Rounds?	9	9	9	9	0	0
Average Concentration?	4050.78	557.17	9282.22	596.89	NA	NA
Standard Deviation?	7663.48	828.99	5121.12	757.73	NA	NA
Coefficient of Variation?	1.89	1.49	0.55	1.27	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*

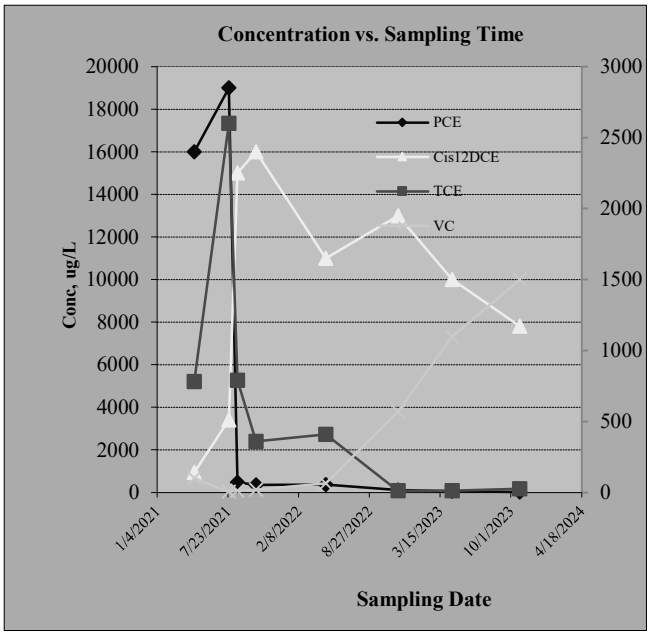
Well (Sampling) Location?	**MW31**
Level of Confidence (Decision Criteria)?	**85%**

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	PCE	TCE	Cis12DCE	VC		
#1	1/27/2021	16000	780	940	100		
#2	4/19/2021	19000	2,600	3400	5		
#3	7/26/2021	480	790	15000	12		
#4	8/19/2021	350	360	16000	20		
#5	10/11/2021	370	410	11000	65		
#6	4/26/2022	110	12	13000	570		
#7	11/16/2022	55	13	10000	1100		
#8	4/18/2023	25	25	7800	1500		
#9	10/26/2023	67	25	6400	2000		
#10							
#11							
#12							
#13							
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**PCE**	**TCE**	**Cis12DCE**	**VC**		
Confidence Level Calculated?	99.90%	96.20%	54.00%	99.90%	NA	NA
Plume Stability?	Shrinking	Shrinking	Stable	***Expanding***	NA	NA
Coefficient of Variation?			CV <= 1		n<4	n<4
Mann-Kendall Statistic "S" value?	-28	-19	-2	28	0	0
Number of Sampling Rounds?	9	9	9	9	0	0
Average Concentration?	4050.78	557.17	9282.22	596.89	NA	NA
Standard Deviation?	7663.48	828.99	5121.12	757.73	NA	NA
Coefficient of Variation?	1.89	1.49	0.55	1.27	NA	NA
Blank if No Errors found					n<4	n<4



ATTACHMENT B
LABORATORY ANALYTICAL REPORTS

Second Quarter 2023 Groundwater

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

April 21, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2304-204

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on April 18, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 21, 2023
Samples Submitted: April 18, 2023
Laboratory Reference: 2304-204
Project: 0651-002

Case Narrative

Samples were collected on April 17, 2023 and received by the laboratory on April 18, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Date of Report: April 21, 2023
Samples Submitted: April 18, 2023
Laboratory Reference: 2304-204
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IW07-20230417**					
Laboratory ID:	04-204-01					
Vinyl Chloride	0.31	0.20	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	1.4	0.20	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**IW08-20230417**					
Laboratory ID:	04-204-02					
Vinyl Chloride	2.6	0.40	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	52	0.40	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	0.88	0.40	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	2.1	0.40	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				
Client ID:	**IW32-20230417**					
Laboratory ID:	04-204-03					
Vinyl Chloride	1400	40	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	40	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	7100	40	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	130	40	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	ND	40	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

Date of Report: April 21, 2023
Samples Submitted: April 18, 2023
Laboratory Reference: 2304-204
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IW15-20230417**					
Laboratory ID:	04-204-04					
Vinyl Chloride	9.0	0.40	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	53	0.40	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	1.6	0.40	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	0.72	0.40	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**IW16-20230417**					
Laboratory ID:	04-204-05					
Vinyl Chloride	14	0.20	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	5.7	0.20	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	1.5	0.20	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	1.1	0.20	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**IW31-20230417**					
Laboratory ID:	04-204-06					
Vinyl Chloride	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	0.38	0.20	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: April 21, 2023
Samples Submitted: April 18, 2023
Laboratory Reference: 2304-204
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IW21-20230417**					
Laboratory ID:	04-204-07					
Vinyl Chloride	180	0.80	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	1.1	0.80	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	78	0.80	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	1.3	0.80	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	ND	0.80	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**IW22-20230417**					
Laboratory ID:	04-204-08					
Vinyl Chloride	170	1.0	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	37	1.0	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	ND	1.0	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	ND	1.0	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**IW60-20230417**					
Laboratory ID:	04-204-09					
Vinyl Chloride	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

Date of Report: April 21, 2023
Samples Submitted: April 18, 2023
Laboratory Reference: 2304-204
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IW33-20230417**					
Laboratory ID:	04-204-10					
Vinyl Chloride	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	1.1	0.20	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Client ID:	**IW34-20230417**					
Laboratory ID:	04-204-11					
Vinyl Chloride	860	200	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	620	200	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	37000	200	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	ND	200	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	ND	200	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**IW59-20230417**					
Laboratory ID:	04-204-12					
Vinyl Chloride	130	1.0	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	43	1.0	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	ND	1.0	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	ND	1.0	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				

Date of Report: April 21, 2023
Samples Submitted: April 18, 2023
Laboratory Reference: 2304-204
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IW57-20230417**					
Laboratory ID:	04-204-13					
Vinyl Chloride	0.33	0.20	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	0.48	0.20	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	0.29	0.20	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Client ID:	**IW55-20230417**					
Laboratory ID:	04-204-14					
Vinyl Chloride	1.2	0.20	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	1.6	0.20	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	0.27	0.20	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**IW61-20230417**					
Laboratory ID:	04-204-15					
Vinyl Chloride	20	0.20	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	0.33	0.20	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				

Date of Report: April 21, 2023
Samples Submitted: April 18, 2023
Laboratory Reference: 2304-204
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:	MB0420W1					
Vinyl Chloride	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Trichloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-20-23	4-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0420W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.1**	**9.79**	10.0	10.0	101	98	71-135	3	20	
(trans) 1,2-Dichloroethene	**10.6**	**10.4**	10.0	10.0	106	104	80-125	2	17	
(cis) 1,2-Dichloroethene	**10.9**	**10.6**	10.0	10.0	109	106	80-129	3	17	
Trichloroethene	**11.5**	**11.4**	10.0	10.0	115	114	80-122	1	18	
Tetrachloroethene	**10.5**	**10.2**	10.0	10.0	105	102	80-124	3	18	
Surrogate:										
Dibromofluoromethane					*100*	*97*	*75-127*			
Toluene-d8					*103*	*102*	*80-127*			
4-Bromofluorobenzene					*104*	*103*	*78-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

Chain of Custody

Page 1 of 2

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

Laboratory Number: 04-204

Company: Sound Earth Strategies
Project Number: 0651-002
Project Name: The Hearthstone
Project Manager: Tom Camarata
Sampled by: Kyle Lowery

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ [illegible]ys ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	CVOCs				% Moisture
1	IW07-20230417	04/17/23	1415	H_2O	3																		X				
2	IW08-20230417		1420																				X				
3	IW32-20230417		1431																				X				
4	IW15-20230417		1435																				X				
5	IW16-20230417		1440																				X				
6	IW31-20230417		1449																				X				
7	IW21-20230417		1445																				X				
8	IW22-20230417		1450																				X				
9	IW60-20230417		1501																				X				
10	IW33-20230417		1510																				X				

	Signature	Company	Date	Time
Relinquished	Kyle Lowery	SES	04/18/23	1545
Received	Josh Hu	Alpha	4/18/23	3:47
Relinquished	Josh Hu	Alpha	4/18/23	5:05
Received	Nicholle Boffin	OSE	4/18/23	1705
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Direct Bill TO The Hearthstone
CVOCs = PCE, TCE, cis/trans-1,2-DCE, VC

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

Page 2 of 2

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

Company: Sound Earth Strategies
Project Number: 0651-002
Project Name: The Hearthstone
Project Manager: Tom Camurata
Sampled by: Kyle Lowery

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ [illegible]ys ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 04-204

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	IW34-20230417	04/17/23	1515	H_2O	3
12	IW59-20230417		1513		
13	IW57-20230417		1520		
14	IW55-20230417		1525		
15	IW61-20230417		1535		

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	cVOCs				% Moisture
11																		X				
12																		X				
13																		X				
14																		X				
15																		X				

	Signature	Company	Date	Time
Relinquished	Kyle Lowery	SES	04/18/23	1545
Received	Josh K	Alpha	4/18/23	3:47
Relinquished	Josh K	Alpha	4/18/23	5:05
Received	Michelle Boehm	OSE	4/18/23	1705
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Direct Bill TO The Hearthstone
cVOCs = PCE, TCE, cis/trans-1,2-DCE, VC

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: 04-204

Initiated by: NB

Date Initiated: 4/18/23

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:	3.3
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:

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

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

May 4, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2304-205

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on April 18, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 4, 2023
Samples Submitted: April 18, 2023
Laboratory Reference: 2304-205
Project: 0651-002

Case Narrative

Samples were collected on April 18, 2023 and received by the laboratory on April 18, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Date of Report: May 4, 2023
Samples Submitted: April 18, 2023
Laboratory Reference: 2304-205
Project: 0651-002

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW35-20230418**					
Laboratory ID:	04-205-06					
Methane	**5.1**	0.55	RSK 175	4-26-23	4-26-23	
Ethane	**4.6**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**5.7**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*80*	*50-150*				
Client ID:	**MW06-20230418**					
Laboratory ID:	04-205-07					
Methane	**4800**	33	RSK 175	4-26-23	4-26-23	
Ethane	**0.68**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**65**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*72*	*50-150*				
Client ID:	**MW34-20230418**					
Laboratory ID:	04-205-08					
Methane	**3300**	28	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**ND**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*77*	*50-150*				
Client ID:	**MW31-20230418**					
Laboratory ID:	04-205-10					
Methane	**320**	2.8	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**81**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*115*	*50-150*				
Client ID:	**MW32-20230418**					
Laboratory ID:	04-205-11					
Methane	**2000**	28	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**11**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*80*	*50-150*				

Date of Report: May 4, 2023
Samples Submitted: April 18, 2023
Laboratory Reference: 2304-205
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:	MB0426W1					
Methane	**ND**	0.55	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**ND**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*86*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0426W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**43.8**	**41.3**	44.2	44.2	99	93	75-125	6	25	
Ethane	**83.9**	**78.9**	83.2	83.2	101	95	75-125	6	25	
Ethene	**86.9**	**76.7**	77.7	77.7	112	99	75-125	12	25	
Surrogate:										
1-Butene					*106*	*93*	*50-150*			

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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW35-20230418**					
Laboratory ID:	04-205-06					
Sulfate	**19**	5.0	ASTM D516-11	4-21-23	4-21-23	
Client ID:	**MW06-20230418**					
Laboratory ID:	04-205-07					
Sulfate	**19**	5.0	ASTM D516-11	4-21-23	4-21-23	
Client ID:	**MW34-20230418**					
Laboratory ID:	04-205-08					
Sulfate	**16**	5.0	ASTM D516-11	4-21-23	4-21-23	
Client ID:	**MW31-20230418**					
Laboratory ID:	04-205-10					
Sulfate	**ND**	5.0	ASTM D516-11	4-21-23	4-21-23	
Client ID:	**MW32-20230418**					
Laboratory ID:	04-205-11					
Sulfate	**19**	5.0	ASTM D516-11	4-21-23	4-21-23	

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SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0420W2					
Sulfate	**ND**	5.0	ASTM D516-11	4-21-23	4-21-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-160-01								
	ORIG	DUP							
Sulfate	**5.89**	**5.31**	NA	NA	NA	NA	10	10	
MATRIX SPIKE									
Laboratory ID:	04-160-01								
	MS		MS		MS				
Sulfate	**16.2**		10.0	5.89	103	72-128	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0420W2								
	SB		SB		SB				
Sulfate	**10.2**		10.0	NA	102	85-114	NA	NA	

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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW35-20230418**					
Laboratory ID:	04-205-06					
Chloride	**11**	2.0	SM 4500-Cl E	4-26-23	4-26-23	
Client ID:	**MW06-20230418**					
Laboratory ID:	04-205-07					
Chloride	**76**	2.0	SM 4500-Cl E	4-26-23	4-26-23	
Client ID:	**MW34-20230418**					
Laboratory ID:	04-205-08					
Chloride	**12**	2.0	SM 4500-Cl E	4-26-23	4-26-23	
Client ID:	**MW31-20230418**					
Laboratory ID:	04-205-10					
Chloride	**22**	2.0	SM 4500-Cl E	4-26-23	4-26-23	
Client ID:	**MW32-20230418**					
Laboratory ID:	04-205-11					
Chloride	**13**	2.0	SM 4500-Cl E	4-26-23	4-26-23	

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CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0426W1					
Chloride	**ND**	2.0	SM 4500-Cl E	4-26-23	4-26-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-205-06								
	ORIG	DUP							
Chloride	**11.2**	**12.0**	NA	NA	NA	NA	7	11	
MATRIX SPIKE									
Laboratory ID:	04-205-06								
	MS		MS		MS				
Chloride	**53.8**		50.0	11.2	85	85-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0426W1								
	SB		SB		SB				
Chloride	**45.0**		50.0	NA	90	90-119	NA	NA	

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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW35-20230418**					
Laboratory ID:	04-205-06					
Nitrate	**ND**	0.050	EPA 353.2	5-3-23	5-3-23	
Client ID:	**MW06-20230418**					
Laboratory ID:	04-205-07					
Nitrate	**ND**	0.050	EPA 353.2	5-3-23	5-3-23	
Client ID:	**MW34-20230418**					
Laboratory ID:	04-205-08					
Nitrate	**ND**	0.050	EPA 353.2	5-3-23	5-3-23	
Client ID:	**MW31-20230418**					
Laboratory ID:	04-205-10					
Nitrate	**ND**	0.050	EPA 353.2	5-3-23	5-3-23	
Client ID:	**MW32-20230418**					
Laboratory ID:	04-205-11					
Nitrate	**ND**	0.050	EPA 353.2	5-3-23	5-3-23	

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NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0503W2					
Nitrate	**ND**	0.050	EPA 353.2	5-3-23	5-3-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-180-01								
	ORIG	DUP							
Nitrate	**2.11**	**2.12**	NA	NA	NA	NA	0	19	
MATRIX SPIKE									
Laboratory ID:	04-180-01								
	MS		MS		MS				
Nitrate	**4.08**		2.00	2.11	99	85-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0503W2								
	SB		SB		SB				
Nitrate	**2.02**		2.00	NA	101	87-118	NA	NA	

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TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW35-20230418**					
Laboratory ID:	04-205-06					
Total Organic Carbon	**3.8**	1.0	SM 5310B	4-21-23	4-21-23	
Client ID:	**MW06-20230418**					
Laboratory ID:	04-205-07					
Total Organic Carbon	**4.6**	1.0	SM 5310B	4-21-23	4-21-23	
Client ID:	**MW34-20230418**					
Laboratory ID:	04-205-08					
Total Organic Carbon	**6.2**	1.0	SM 5310B	4-21-23	4-21-23	
Client ID:	**MW31-20230418**					
Laboratory ID:	04-205-10					
Total Organic Carbon	**3.2**	1.0	SM 5310B	4-21-23	4-21-23	
Client ID:	**MW32-20230418**					
Laboratory ID:	04-205-11					
Total Organic Carbon	**2.2**	1.0	SM 5310B	4-21-23	4-21-23	

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TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0421W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-21-23	4-21-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-233-01								
	ORIG	DUP							
Total Organic Carbon	**4.43**	**4.36**	NA	NA	NA	NA	2	12	
MATRIX SPIKE									
Laboratory ID:	04-233-01								
	MS		MS		MS				
Total Organic Carbon	**14.5**		10.0	4.43	101	80-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0421W1								
	SB		SB		SB				
Total Organic Carbon	**9.96**		10.0	NA	100	80-118	NA	NA	

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TOTAL METALS
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW35-20230418**					
Laboratory ID:	04-205-06					
Iron	**320**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**49**	10	EPA 6010D	4-21-23	4-21-23	
Client ID:	**MW06-20230418**					
Laboratory ID:	04-205-07					
Iron	**2200**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**1000**	10	EPA 6010D	4-21-23	4-21-23	
Client ID:	**MW34-20230418**					
Laboratory ID:	04-205-08					
Iron	**140**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**210**	10	EPA 6010D	4-21-23	4-21-23	
Client ID:	**MW31-20230418**					
Laboratory ID:	04-205-10					
Iron	**55**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**140**	10	EPA 6010D	4-21-23	4-21-23	
Client ID:	**MW32-20230418**					
Laboratory ID:	04-205-11					
Iron	**150**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**210**	10	EPA 6010D	4-21-23	4-21-23	

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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:	MB0421WH1					
Iron	**ND**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**ND**	10	EPA 6010D	4-21-23	4-21-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-160-02										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Manganese	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	04-160-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**20800**	**19100**	20000	20000	ND	**104**	**96**	75-125	8	20	
Manganese	**514**	**483**	500	500	ND	**103**	**97**	75-125	6	20	

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VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW27-20230418**					
Laboratory ID:	04-205-01					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*82*	*75-127*				
Toluene-d8	*90*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**MW37-20230418**					
Laboratory ID:	04-205-02					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*81*	*75-127*				
Toluene-d8	*90*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**MW25-20230418**					
Laboratory ID:	04-205-03					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*89*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW99-20230418**					
Laboratory ID:	04-205-04					
Vinyl Chloride	98	0.80	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	50	0.80	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	35	0.80	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	14	0.80	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*87*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**MW36-20230418**					
Laboratory ID:	04-205-05					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*83*	*75-127*				
Toluene-d8	*90*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**MW35-20230418**					
Laboratory ID:	04-205-06					
Vinyl Chloride	1.2	0.20	EPA 8260D/SIM	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	340	2.0	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	25	2.0	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	240	2.0	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW06-20230418**					
Laboratory ID:	04-205-07					
Vinyl Chloride	85	0.80	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	51	0.80	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	40	0.80	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	17	0.80	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*78*	*75-127*				
Toluene-d8	*87*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**MW34-20230418**					
Laboratory ID:	04-205-08					
Vinyl Chloride	7.3	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	2.9	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	0.30	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	2.0	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*88*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**MW30-20230418**					
Laboratory ID:	04-205-09					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*78*	*75-127*				
Toluene-d8	*90*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

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VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW31-20230418**					
Laboratory ID:	04-205-10					
Vinyl Chloride	1500	50	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	54	50	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	7800	50	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	50	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	50	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*80*	*75-127*				
Toluene-d8	*87*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Client ID:	**MW32-20230418**					
Laboratory ID:	04-205-11					
Vinyl Chloride	1.2	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	1.0	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	1.0	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0421W1					
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0421W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**8.99**	**9.21**	10.0	10.0	90	92	71-135	2	20	
(trans) 1,2-Dichloroethene	**9.88**	**10.2**	10.0	10.0	99	102	80-125	3	17	
(cis) 1,2-Dichloroethene	**10.1**	**10.4**	10.0	10.0	101	104	80-129	3	17	
Trichloroethene	**11.5**	**11.8**	10.0	10.0	115	118	80-122	3	18	
Tetrachloroethene	**9.87**	**10.2**	10.0	10.0	99	102	80-124	3	18	
Surrogate:										
Dibromofluoromethane					*90*	*90*	*75-127*			
Toluene-d8					*103*	*101*	*80-127*			
4-Bromofluorobenzene					*106*	*105*	*78-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

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: 2304429

April 25, 2023

Attention David Baumeister:

Fremont Analytical, Inc. received 5 sample(s) on 4/18/2023 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *04/25/2023*

CLIENT: OnSite Environmental Inc
Project: The Hearthstone
Work Order: 2304429

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2304429-001	MW35-0230418	04/18/2023 12:57 PM	04/18/2023 4:07 PM
2304429-002	MW06-0230418	04/18/2023 1:08 PM	04/18/2023 4:07 PM
2304429-003	MW34-0230418	04/18/2023 2:24 PM	04/18/2023 4:07 PM
2304429-004	MW32-0230418	04/18/2023 3:21 PM	04/18/2023 4:07 PM
2304429-005	MW31-0230418	04/18/2023 3:12 PM	04/18/2023 4:07 PM

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

Case Narrative

WO#: **2304429**
Date: **4/25/2023**

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: 2304429-001 **Collection Date:** 4/18/2023 12:57:00 PM
Client Sample ID: **MW35-0230418** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83281		Analyst: SLL
Ferrous Iron	0.305	0.150		mg/L	1	4/18/2023 3:41:13 PM

Lab ID: 2304429-002 **Collection Date:** 4/18/2023 1:08:00 PM
Client Sample ID: **MW06-0230418** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83281		Analyst: SLL
Ferrous Iron	1.48	0.150		mg/L	1	4/18/2023 3:41:13 PM

Lab ID: 2304429-003 **Collection Date:** 4/18/2023 2:24:00 PM
Client Sample ID: **MW34-0230418** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83281		Analyst: SLL
Ferrous Iron	0.172	0.150		mg/L	1	4/18/2023 3:41:13 PM

Lab ID: 2304429-004 **Collection Date:** 4/18/2023 3:21:00 PM
Client Sample ID: **MW32-0230418** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83281		Analyst: SLL
Ferrous Iron	0.180	0.150		mg/L	1	4/18/2023 3:41:13 PM

Analytical Report

Work Order: **2304429**
Date Reported: **4/25/2023**

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2304429-005
Client Sample ID: **MW31-0230418**
Collection Date: 4/18/2023 3:12:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B					Batch ID: R83281	Analyst: SLL
Ferrous Iron	ND	0.150		mg/L	1	4/18/2023 3:41:13 PM

Work Order: 2304429
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: LCS-R83281	SampType: LCS			Units: mg/L		Prep Date: 4/18/2023			RunNo: 83281	
Client ID: LCSW	Batch ID: R83281					Analysis Date: 4/18/2023			SeqNo: 1734268	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.430	0.150	0.4000	0	108	85	115				

Sample ID: MB-R83281	SampType: MBLK			Units: mg/L		Prep Date: 4/18/2023			RunNo: 83281	
Client ID: MBLKW	Batch ID: R83281					Analysis Date: 4/18/2023			SeqNo: 1734269	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.150									

Sample ID: 2304429-001ADUP	SampType: DUP			Units: mg/L		Prep Date: 4/18/2023			RunNo: 83281	
Client ID: MW35-0230418	Batch ID: R83281					Analysis Date: 4/18/2023			SeqNo: 1734354	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.281	0.150						0.3052	8.35	20	

Sample ID: 2304429-001AMS	SampType: MS			Units: mg/L		Prep Date: 4/18/2023			RunNo: 83281	
Client ID: MW35-0230418	Batch ID: R83281					Analysis Date: 4/18/2023			SeqNo: 1734355	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.792	0.150	0.4000	0.3052	122	70	130				

Sample ID: 2304429-001AMSD	SampType: MSD			Units: mg/L		Prep Date: 4/18/2023			RunNo: 83281	
Client ID: MW35-0230418	Batch ID: R83281					Analysis Date: 4/18/2023			SeqNo: 1734356	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.716	0.150	0.4000	0.3052	103	70	130	0.7919	10.1	30	

Sample Log-In Check List

Client Name:	ONSITE	Work Order Number:	2304429
Logged by:	Clare Griggs	Date Received:	4/18/2023 4:07:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes	☑	No ☐	Not Present	☐
2.	How was the sample delivered?	Client				

Log In

3.	Coolers are present?	Yes	☑	No ☐	NA	☐
4.	Shipping container/cooler in good condition?	Yes	☑	No ☐		
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes	☐	No ☐	Not Present	☑
6.	Was an attempt made to cool the samples?	Yes	☑	No ☐	NA	☐
7.	Were all items received at a temperature of >2°C to 6°C *	Yes	☐	No ☑	NA	☐
	Samples were collected the same day and chilled.					
8.	Sample(s) in proper container(s)?	Yes	☑	No ☐		
9.	Sufficient sample volume for indicated test(s)?	Yes	☑	No ☐		
10.	Are samples properly preserved?	Yes	☑	No ☐		
11.	Was preservative added to bottles?	Yes	☐	No ☑	NA	☐
12.	Is there headspace in the VOA vials?	Yes	☐	No ☐	NA	☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes	☑	No ☐		
14.	Does paperwork match bottle labels?	Yes	☑	No ☐		
15.	Are matrices correctly identified on Chain of Custody?	Yes	☑	No ☐		
16.	Is it clear what analyses were requested?	Yes	☑	No ☐		
17.	Were all holding times able to be met?	Yes	☑	No ☐		

Special Handling (if applicable)

18.	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: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample	9.6

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

Fremont Enviro

Chain of Custody

Page 1 of 1

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

Company: ~~SoundEarth Strategies~~ Onsite Enviro
Project Number: 0651-002
Project Name: The Hearthstone
Project Manager: ~~Tom Cammarata~~ David Baumeister
Sampled by: Linnea Coleman, Kyle Lowery

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

Laboratory Number: 2304429

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
	~~MW36~~										X								
	MW35-20230418	04/18/23	1257	H2O	1						X								
	MW06-20230418	↓	1308	↓	1						X								
	MW34-20230418		1424		1						X								
	MW32-20230418		1521		1						X								
	MW31-20230418	↓	1512	↓	1						X								

	Signature	Company	Date	Time
Relinquished	Kyle Lowery	SES	04/18/23	1545
Received		Alpha	4/18/23	2:47
Relinquished	Josh M	Alpha	4/18/23	407
Received		Fremont Analytical	4/18/23	16:07
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

SiREM
Leading Science · Lasting Solutions

130 Stone Rd. W
Guelph, ON N1G 3Z2
(519) 822-2265

Analytical Results

SiREM File Reference: S-9753

Client: Onsite Environmental Inc.
Client Project Number: 0651-002
Date Samples Received: April 21, 2023
Date Samples Analyzed: April 26, 2023

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
MW35-20230418	23-13661	18-Apr-23	50x	<0.62	1.9 J	<0.10	<1.3	<0.06	<0.15
MW06-20230418	23-13662	18-Apr-23	50x	4.1	<1.4	<0.10	<1.3	<0.06	0.19
MW34-20230418	23-13663	18-Apr-23	50x	<0.62	5.4	<0.10	<1.3	<0.06	<0.15
MW31-20230418	23-13664	18-Apr-23	50x	<0.62	8.1	<0.10	<1.3	<0.06	<0.15
MW32-20230418	23-13665	18-Apr-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15

QL	50	0.62	1.4	0.10	1.3	0.06	0.15
	1,000	12	28	2.0	25	1.2	2.9
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 = Reprting Limit
< = compound analysed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst:

Brooke Rapien

Brooke Rapien, B.Sc.
Laboratory Technician

Results approved:

Kela Ashworth

Kela Ashworth, B.Sc.
Senior Laboratory Technician

Date:

2-May-23

OnSite Environmental Inc.

S-9753

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

Laboratory Reference #: 04-205

Laboratory: SiREM Laboratory

Turnaround Request

Project Manager: David Baumeister

Attention: Ximena Druan

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

Address: 180A Market Place Blvd.

Standard

Project Number: 0651-002

Address: Knoxville, TN 37922

Other: _____

Project Name: _____

Phone Number: (865) 330-0037

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW35-20230418	4/18/23	12:57	W	3	Volatile Organic Fatty Acids
	MW06-20230418	4/18/23	13:08	W	3	Volatile Organic Fatty Acids
	MW34-20230418	4/18/23	14:24	W	3	Volatile Organic Fatty Acids
	MW31-20230418	4/18/23	15:12	W	3	Volatile Organic Fatty Acids
	MW32-20230418	4/18/23	15:21	W	3	Volatile Organic Fatty Acids

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	SiREM	4/20/23	1600	6.0°C Blue Wet ice KX000058 Good condition. ST
Received by: Ximena Druan SiREM	SiREM UPS	4-21-23	1045	
Relinquished by:	UPS			EIM
Received by:				
Relinquished by:				
Received by:				

SiREM

Chain-of-Custody Form

siremlab.com

SiREM Knoxville
180A Market Place Blvd.
Knoxville, TN 37922
Phone: 865.330.0037

Lab # 3-9753

*Project Name: Lab Reference 04-205
*Project #: 0651-002
*Project Manager: David Baumeister
*Company: On-Site Environmental
*Email Address: dbaumeister@onsite-env.com
Address (Street): 14648 NE 95th Street
City: Redmond
State/Province: WA
Country: USA
*Phone #: 425-883-3881
*Sampler's Signature:
*Sampler's Printed Name:

Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers
MW35-20230418	4/18/23	12:57	Vad	1
MW06-20230418		13:08		1
MW34-20230418		14:24		1
MW31-20230418		15:12		1
MW32-20230418		15:21		1

Analysis

Gene-Trac DHC	Gene-Trac VC	Gene-Trac DHB	Gene-Trac DHG	Gene-Trac tceA	Volatile Fatty Acids	Dissolved hydrocarbon gases	Treatability Study				Other Information
					X						
					X						
					X						
					X						
					X						

Preservative Key
0. None
1. HCL
2. Other
3. Other
4. Other
5. Other
6. Other

SJ 4-24-2023

Billing Information
P.O. #:
*Bill To:

Turnaround Time Requested
Normal ☑
Rush ☐

For Lab Use Only
Cooler Condition: Good
Cooler Temperature: 5.6°C
Custody Seals: Yes ☐ No ☒

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Kautilya Dravidmoorthy	Printed Name: JEMALCA CUNTAPAY	Printed Name	Printed Name	Printed Name	Printed Name
Firm: SiREM	Firm: SiREM	Firm	Firm	Firm	Firm
Date/Time: 04/24/23 1600	Date/Time: 25 Apr 23 @ 14:45	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - return to Originator; Yellow - Lab Copy; Pink - Retained by Client

* Mandatory Fields

Chain of Custody

Page 1 of 2

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

Laboratory Number: 04-205

Company: Sound Earth Strategies
Project Number: 0651-002
Project Name: The Hearthstone
Project Manager: Tom Camurata
Sampled by: Kyle Lowery

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ [illegible]ys ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals Ferrous and Ferric Hydroxide, Ethene, Methane	Total MTCA Metals Sulfate, Chloride, Nitrate	TCLP Metals TOC	HEM (oil and grease) 1664A Total Mn + Total Fe	cVOCs	VFAs	Ferrous Fe sent to Fremont		% Moisture
1	MW27-20230418	04/18/23	1042	H2O	3																		X				
2	MW37-20230418		1129		3																		X				
3	MW25-20230418		1142		3																		X				
4	MW99-20230418		1200		3																		X				
5	MW36-20230418		1201		3																		X				
6	MW35-20230418		1257		18														X	X	X	X	X	X	X		
7	MW06-20230418		1308		12														X	X	X	X	X	X	X		
8	MW34-20230418		1424		12														X	X	X	X	X	X	X		
9	MW30-20230418		1440		3																		X				
10	MW31-20230418	↓	1512	↓	12														X	X	X	X	X	X	X		

	Signature	Company	Date	Time
Relinquished	Kyle Lowery	SES	04/17/23	1545
Received	Josh R	Alpha	4/18/23	3:47
Relinquished	Josh R	Alpha	4/18/23	5:05
Received	Nicolle Bellin	OSE	4/18/23	1705
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Direct Bill TO The Hearthstone
cVOCs = PCE, TCE, cis/trans-1,2-DCE, VC

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

Page 2 of 3

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

Company: Sound Earth Strategies
Project Number: 0651-002
Project Name: The Hearthstone
Project Manager: Tom Camurata
Sampled by: Kyle Lowery

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ [illegible]ys ☐ 3 Days
☑ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 04-205

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	~~Total PCBs~~ Aroclors, Sheen, Speed	Total MTCA Metals	TCLP Metals	HEM (oil and grease) (1664)	cVOCs	VFAs	Ferrous Fe, Manganese, Ammonia	% Moisture
11	MW32-20230418	04/18/23	1521	H_2O	12														X	X	X	X	X	X	X	

Kyle 04/18/23

	Signature	Company	Date	Time
Relinquished	Kyle Lowery	SES	04/18/23	1545
Received	[illegible]	Alpha	4/18/23	3:40
Relinquished	[illegible]	Alpha	4/18/23	5:05
Received	[illegible]	OSE	4/18/23	1705
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Direct Bill TO The Hearthstone
cVOCs = PCE, TCE, cis/trans-1,2-DCE, VC

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

Page 1 of 1

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

Company: SoundEarth Strategies
Project Number: 0651-002
Project Name: The Hearthstone
Project Manager: Tom Cammarata
Sampled by: Linnea Coleman, Kyle Lowery

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

Laboratory Number: 04-205

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
2	MW37-20230418	04/18/23	1129	H_2O	3	X													
5	MW36-20230418	04/18/23	1201	H_2O	3	X													
6	MW35-20230418	↓	1257	H_2O	11	X	X	X	X	X	X	X							
8	MW34-20230418	↓	1424	H_2O	11	X	X	X	X	X	X	X							

	Signature	Company	Date	Time
Relinquished	Kyle Lowery	SET	04/19/23	10:05
Received	#17	Greedy Alpha	4/19/23	10:09
Relinquished	#17	Greedy Alpha	4/19/23	2:45
Received	Nichelle Baffin	OSE	4/19/23	1445
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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

Fe^{2+} went to Fremont

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: 04-205

Initiated by: NB

Date Initiated: 4/18/23

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: 3.3	
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:

2.5) Samples #2, 5, 6 & 8 were not submitted.

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

Sample/Cooler Receipt and Acceptance Checklist

Client: SES

Client Project Name/Number: 0651-002

Initiated by: NB

OnSite Project Number: 04-205

Date Initiated: 4/19/23

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:	2.6
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:

3.7) Nitrates 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

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

May 4, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2304-224

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on April 19, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

Case Narrative

Samples were collected on April 18 and 19, 2023 and received by the laboratory on April 19, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Nitrate (as Nitrogen) EPA 353.2 Analysis

Please note that the N+N value has been reported as the Nitrite value was inadvertently not analyzed and therefore we were unable to calculate the individual Nitrate and Nitrite values.

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 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW13-20230419**					
Laboratory ID:	04-224-02					
Methane	**ND**	0.55	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**ND**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*84*	*50-150*				
Client ID:	**MW15-20230419**					
Laboratory ID:	04-224-03					
Methane	**8300**	55	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**ND**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*75*	*50-150*				
Client ID:	**MW11-20230419**					
Laboratory ID:	04-224-05					
Methane	**ND**	0.55	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**ND**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*74*	*50-150*				

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
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:	MB0426W1					
Methane	**ND**	0.55	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**ND**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*86*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0426W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**43.8**	**41.3**	44.2	44.2	99	93	75-125	6	25	
Ethane	**83.9**	**78.9**	83.2	83.2	101	95	75-125	6	25	
Ethene	**86.9**	**76.7**	77.7	77.7	112	99	75-125	12	25	
Surrogate:										
1-Butene					*106*	*93*	*50-150*			

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW13-20230419**					
Laboratory ID:	04-224-02					
Sulfate	**34**	10	ASTM D516-11	4-27-23	4-27-23	
Client ID:	**MW15-20230419**					
Laboratory ID:	04-224-03					
Sulfate	**17**	5.0	ASTM D516-11	4-27-23	4-27-23	
Client ID:	**MW11-20230419**					
Laboratory ID:	04-224-05					
Sulfate	**38**	20	ASTM D516-11	4-27-23	4-27-23	

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
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:	MB0427W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-27-23	4-27-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-234-01								
	ORIG	DUP							
Sulfate	**59.0**	**55.1**	NA	NA	NA	NA	7	10	
MATRIX SPIKE									
Laboratory ID:	04-234-01								
	MS		MS		MS				
Sulfate	**102**		50.0	59.0	86	72-128	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0427W1								
	SB		SB		SB				
Sulfate	**9.59**		10.0	NA	96	85-114	NA	NA	

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW13-20230419**					
Laboratory ID:	04-224-02					
Chloride	**7.5**	2.0	SM 4500-Cl E	4-26-23	4-26-23	
Client ID:	**MW15-20230419**					
Laboratory ID:	04-224-03					
Chloride	**110**	4.0	SM 4500-Cl E	4-26-23	4-26-23	
Client ID:	**MW11-20230419**					
Laboratory ID:	04-224-05					
Chloride	**6.0**	2.0	SM 4500-Cl E	4-26-23	4-26-23	

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
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:	MB0426W1					
Chloride	**ND**	2.0	SM 4500-Cl E	4-26-23	4-26-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-205-06								
	ORIG	DUP							
Chloride	**11.2**	**12.0**	NA	NA	NA	NA	7	11	
MATRIX SPIKE									
Laboratory ID:	04-205-06								
	MS		MS		MS				
Chloride	**53.8**		50.0	11.2	85	85-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0426W1								
	SB		SB		SB				
Chloride	**45.0**		50.0	NA	90	90-119	NA	NA	

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

NITRATE + NITRITE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW13-20230419**					
Laboratory ID:	04-224-02					
Nitrate+Nitrite	**0.20**	0.050	EPA 353.2	4-28-23	4-28-23	
Client ID:	**MW15-20230419**					
Laboratory ID:	04-224-03					
Nitrate+Nitrite	**27**	0.50	EPA 353.2	4-28-23	4-28-23	
Client ID:	**MW11-20230419**					
Laboratory ID:	04-224-05					
Nitrate+Nitrite	**0.19**	0.050	EPA 353.2	4-28-23	4-28-23	

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

NITRATE + NITRITE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0428W1					
Nitrate+Nitrite	**ND**	0.050	EPA 353.2	4-28-23	4-28-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-256-01							
	ORIG DUP							
Nitrate+Nitrite	**0.711** **0.705**	NA	NA	NA	NA	1	10	
MATRIX SPIKE								
Laboratory ID:	04-256-01							
	MS	MS		MS				
Nitrate+Nitrite	**2.74**	2.00	0.711	101	88-125	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0428W1							
	SB	SB		SB				
Nitrate+Nitrite	**2.04**	2.00	NA	102	90-120	NA	NA	

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW13-20230419**					
Laboratory ID:	04-224-02					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-21-23	4-21-23	
Client ID:	**MW15-20230419**					
Laboratory ID:	04-224-03					
Total Organic Carbon	**3.7**	1.0	SM 5310B	4-21-23	4-21-23	
Client ID:	**MW11-20230419**					
Laboratory ID:	04-224-05					
Total Organic Carbon	**7.0**	1.0	SM 5310B	4-21-23	4-21-23	

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
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:	MB0421W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-21-23	4-21-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-233-01								
	ORIG	DUP							
Total Organic Carbon	**4.43**	**4.36**	NA	NA	NA	NA	2	12	
MATRIX SPIKE									
Laboratory ID:	04-233-01								
	MS		MS		MS				
Total Organic Carbon	**14.5**		10.0	4.43	101	80-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0421W1								
	SB		SB		SB				
Total Organic Carbon	**9.96**		10.0	NA	100	80-118	NA	NA	

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW13-20230419**					
Laboratory ID:	04-224-02					
Iron	**ND**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**ND**	10	EPA 6010D	4-21-23	4-21-23	
Client ID:	**MW15-20230419**					
Laboratory ID:	04-224-03					
Iron	**490**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**170**	10	EPA 6010D	4-21-23	4-21-23	
Client ID:	**MW11-20230419**					
Laboratory ID:	04-224-05					
Iron	**1800**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**270**	10	EPA 6010D	4-21-23	4-21-23	

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0421WH1					
Iron	**ND**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**ND**	10	EPA 6010D	4-21-23	4-21-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-160-02										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Manganese	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	04-160-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**20800**	**19100**	20000	20000	ND	**104**	**96**	75-125	8	20	
Manganese	**514**	**483**	500	500	ND	**103**	**97**	75-125	6	20	

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW33-20230418**					
Laboratory ID:	04-224-01					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	1.5	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**MW15-20230419**					
Laboratory ID:	04-224-03					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*75-127*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**MW29-20230419**					
Laboratory ID:	04-224-04					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	1.0	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	3.6	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*75-127*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW08-20230419**					
Laboratory ID:	04-224-06					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*85*	*75-127*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**MW01-20230419**					
Laboratory ID:	04-224-07					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	1.2	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*85*	*75-127*				
Toluene-d8	*93*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**MW22-20230419**					
Laboratory ID:	04-224-08					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*85*	*75-127*				
Toluene-d8	*92*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW26-20230419**					
Laboratory ID:	04-224-09					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	0.45	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*84*	*75-127*				
Toluene-d8	*92*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**MW02-20230419**					
Laboratory ID:	04-224-10					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	0.72	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	1.0	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*83*	*75-127*				
Toluene-d8	*89*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**MW24-20230419**					
Laboratory ID:	04-224-11					
Vinyl Chloride	2.0	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	0.24	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: May 4, 2023
Samples Submitted: April 19, 2023
Laboratory Reference: 2304-224
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:	MB0421W1					
Vinyl Chloride	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Trichloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-21-23	4-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0421W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**8.99**	**9.21**	10.0	10.0	90	92	71-135	2	20	
(trans) 1,2-Dichloroethene	**9.88**	**10.2**	10.0	10.0	99	102	80-125	3	17	
(cis) 1,2-Dichloroethene	**10.1**	**10.4**	10.0	10.0	101	104	80-129	3	17	
Trichloroethene	**11.5**	**11.8**	10.0	10.0	115	118	80-122	3	18	
Tetrachloroethene	**9.87**	**10.2**	10.0	10.0	99	102	80-124	3	18	
Surrogate:										
Dibromofluoromethane					*90*	*90*	*75-127*			
Toluene-d8					*103*	*101*	*80-127*			
4-Bromofluorobenzene					*106*	*105*	*78-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

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: 2304459

April 26, 2023

Attention David Baumeister:

Fremont Analytical, Inc. received 3 sample(s) on 4/19/2023 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *04/26/2023*

CLIENT: OnSite Environmental Inc
Project: The Hearthstone
Work Order: 2304459

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2304459-001	MW13-20230419	04/19/2023 11:08 AM	04/19/2023 3:43 PM
2304459-002	MW15-20230419	04/19/2023 12:03 PM	04/19/2023 3:43 PM
2304459-003	MW11-20230419	04/19/2023 12:40 PM	04/19/2023 3:43 PM

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

Case Narrative

WO#: **2304459**
Date: **4/26/2023**

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

Analytical Report

Work Order: **2304459**
Date Reported: **4/26/2023**

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2304459-001 **Collection Date:** 4/19/2023 11:08:00 AM
Client Sample ID: **MW13-20230419** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83325		Analyst: SLL
Ferrous Iron	ND	0.150		mg/L	1	4/20/2023 9:35:26 AM

Lab ID: 2304459-002 **Collection Date:** 4/19/2023 12:03:00 PM
Client Sample ID: **MW15-20230419** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83325		Analyst: SLL
Ferrous Iron	0.224	0.150		mg/L	1	4/20/2023 9:35:26 AM

Lab ID: 2304459-003 **Collection Date:** 4/19/2023 12:40:00 PM
Client Sample ID: **MW11-20230419** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83325		Analyst: SLL
Ferrous Iron	0.259	0.150		mg/L	1	4/20/2023 9:35:26 AM

Work Order: 2304459
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **MB-R83325**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **4/20/2023**	RunNo: **83325**
Client ID: **MBLKW**	Batch ID: **R83325**		Analysis Date: **4/20/2023**	SeqNo: **1735257**

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-R83325**	SampType: **LCS**	Units: **mg/L**	Prep Date: **4/20/2023**	RunNo: **83325**
Client ID: **LCSW**	Batch ID: **R83325**		Analysis Date: **4/20/2023**	SeqNo: **1735258**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.422	0.150	0.4000	0	106	85	115				

Sample ID: **2304459-001ADUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **4/20/2023**	RunNo: **83325**
Client ID: **MW13-20230419**	Batch ID: **R83325**		Analysis Date: **4/20/2023**	SeqNo: **1735260**

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: **2304459-001AMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **4/20/2023**	RunNo: **83325**
Client ID: **MW13-20230419**	Batch ID: **R83325**		Analysis Date: **4/20/2023**	SeqNo: **1735261**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.466	0.150	0.4000	0	116	70	130				

Sample ID: **2304459-001AMSD**	SampType: **MSD**	Units: **mg/L**	Prep Date: **4/20/2023**	RunNo: **83325**
Client ID: **MW13-20230419**	Batch ID: **R83325**		Analysis Date: **4/20/2023**	SeqNo: **1735262**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.455	0.150	0.4000	0	114	70	130	0.4656	2.36	30	

Sample Log-In Check List

Client Name:	ONSITE	Work Order Number:	2304459
Logged by:	Chelsea Codd	Date Received:	4/19/2023 3:43:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes	☑	No	☐	Not Present ☐
2.	How was the sample delivered?	Client				

Log In

3.	Coolers are present?	Yes	☑	No	☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes	☑	No	☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes	☐	No	☐	Not Present ☑
6.	Was an attempt made to cool the samples?	Yes	☑	No	☐	NA ☐
7.	Were all items received at a temperature of >2°C to 6°C *	Yes	☑	No	☐	NA ☐
8.	Sample(s) in proper container(s)?	Yes	☑	No	☐	
9.	Sufficient sample volume for indicated test(s)?	Yes	☑	No	☐	
10.	Are samples properly preserved?	Yes	☑	No	☐	
11.	Was preservative added to bottles?	Yes	☐	No	☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes	☐	No	☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes	☑	No	☐	
14.	Does paperwork match bottle labels?	Yes	☑	No	☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes	☑	No	☐	
16.	Is it clear what analyses were requested?	Yes	☑	No	☐	
17.	Were all holding times able to be met?	Yes	☑	No	☐	

Special Handling (if applicable)

18.	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: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample	5.9

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

2304459

Page 1 of 1

Chain of Custody

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

Company: SoundEarth Strategies/Onsite Environ
Project Number: 0651-002
Project Name: The Hearthstone
Project Manager: ~~Tom Cammarata~~ David Baumeister
Sampled by: Linnea Coleman, Kyle Lowery

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

Laboratory Number:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
	MW13 - 20230419	04/19/23	1108	H2O	3						X								
	MW15 - 20230419	↓	1203	↓	2						X								
	MW11 - 20230419	↓	1240	↓	3						X								

Kyle 04/19/23

	Signature	Company	Date	Time
Relinquished	Kyle Lowery	SES	04/19/23	1530
Received	Josh K	Alpha	4/19/23	21:28
Relinquished	Josh K	Alpha	4/19/23	2143
Received	Jeff Walters	FAL	4/19/23	1543
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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

To be Sent to Fremont Analytical

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ ~~Electronic Data Deliverables (EDDs)~~ ☐

SiREM
Leading Science · Lasting Solutions

130 Stone Rd. W
Guelph, ON N1G 3Z2
(519) 822-2265

Analytical Results

SiREM File Reference: S-9754

Client: Onsite Environmental Inc.
Client Project Number: 0651-002
Date Samples Received: April 21, 2023
Date Samples Analyzed: April 26, 2023

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
MW13-20230419	23-13666	19-Apr-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
MW15-20230419	23-13667	19-Apr-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	0.25
MW11-20230419	23-13668	19-Apr-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15

QL	50	0.62	1.4	0.10	1.3	0.06	0.15
	1,000	12	28	2.0	25	1.2	2.9
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 = Reprting Limit
< = compound analysed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst: Brooke Rapien

Brooke Rapien, B.Sc.
Laboratory Technician

Results approved: Kela Ashworth

Kela Ashworth, B.Sc.
Senior Laboratory Technician

Date: 2-May-23

OnSite Environmental Inc.

S-9754

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

Laboratory Reference #: 04-224

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: _____

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
	MW13-20230419	4/19/23	11:08	W	3	Volatile Organic Fatty Acids
	MW15-20230419	4/19/23	12:03	W	3	Volatile Organic Fatty Acids
	MW11-20230419	4/19/23	12:40	W	3	Volatile Organic Fatty Acids

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	4/20/23	1600	6.0°C Blue Wet Ice KY00058 Good Condition. ST
Received by: Ximena Druan	SiREM UPS	4-21-23	1045	
Relinquished by:	UPS			EIM
Received by:				
Relinquished by:				
Received by:				

SiREM

Chain-of-Custody Form

siremlab.com

SiREM Knoxville
180A Market Place Blvd.
Knoxville, TN 37922
Phone: 865.330.0037

Lab # J-9754

*Project Name: Lab Reference 04-224 | *Project #: 0651-002

*Project Manager: David Baumeister | *Company: On-Site Environmental

*Email Address: dbaumeister@on-site-env.com

Address (Street): 14648 NE 95th Street

City: Redmond | State/Province: WA | Country: USA

*Phone #: 425-883-3881

*Sampler's Signature | *Sampler's Printed Name

Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers
MW13-20230419	4/19/23	11:08	VOA Vials	1
MW15-20230419	↓	12:03	↓	1
MW11-20230419	↓	12:40	↓	1

Analysis

Gene-Trac DHC	Gene-Trac VC	Gene-Trac DHB	Gene-Trac DHG	Gene-Trac tceA	Volatile Fatty Acids	Dissolved hydrocarbon gases	Treatability Study				Preservative Key	Other Information
					X						0. None	
					X						1. HCL	
					X						2. Other	
											3. Other	
											4. Other	
											5. Other	
											6. Other	

SR 24-2023

Billing Information

P.O. #

*Bill To:

Turnaround Time Requested

Normal ☑

Rush ☐

For Lab Use Only

Cooler Condition: Good

Cooler Temperature: 5.6 °C

Custody Seals: Yes ☐ No ☒

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: [signature]	Signature: [signature]	Signature:	Signature:	Signature:	Signature:
Printed Name: Kavitha Gandhamuthu	Printed Name: JEMAICA CUNTAPAY	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: SiREM	Firm: SiREM	Firm:	Firm:	Firm:	Firm:
Date/Time: 04/24/23 1600	Date/Time: 25 Apr 23 @ 1445	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - return to Originator; Yellow - Lab Copy; Pink - Retained by Client

* Mandatory Fields

Chain of Custody

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

Company: SoundEarth Strategies
Project Number: 0651-002
Project Name: The Hearthstone
Project Manager: Tom Cammarata
Sampled by: Linnea Coleman, Kyle Lowery

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

Laboratory Number: 04-224

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
1	MW33-20230418	04/18/23	1621	H_2O	3	X																				
2	MW13-20230419	04/19/23	1108		9		X	X	X	X	/	X														
3	MW15-20230419		1203		12	X	X	X	X	X	/	X														
4	MW29-20230419		1205		3	X																				
5	MW11-20230419		1240		9		X	X	X	X	/	X														
6	MW08-20230419		1309		3	X																				
7	MW01-20230419		1352		3	X																				
8	MW22-20230419		1358		3	X																				
9	MW26-20230419		1442		3	X																				
10	MW02-20230419		1452		3	X																				

Ferrous Fe Sent to Fremont
Ferrous Fe Sent to Fremont
Ferrous Fe. Sent to Fremont

	Signature	Company	Date	Time
Relinquished	[signature]	SES	04/19/23	1530
Received	[signature]	Alpha	04/19/23	3:28
Relinquished	[signature]	Alpha	4/19/23	5:58
Received	[signature]	ORE	4/19/23	1757
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

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

Company: SoundEarth Strategies
Project Number: 0651-002
Project Name: The Hearthstone
Project Manager: Tom Cammarata
Sampled by: Linnea Coleman, Kyle Lowery

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

Laboratory Number: 04-224

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
11	MW24-20230419	04/19/23	1511	H2O	3	X													

04/19/23

	Signature	Company	Date	Time
Relinquished	Kyle Lowery	SES	04/19/23	1530
Received		Alpha	4/19/23	3:28
Relinquished		Alpha	4/19/23	5:54
Received		ONE	4/19/23	1757
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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

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: 04-224

Initiated by: MV

Date Initiated: 4/19/23

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:	4
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:

3.7) Ferrous Iron 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

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

May 11, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2304-233

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on April 20, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
Project: 0651-002

Case Narrative

Samples were collected on May 119 and 20, 2023 and received by the laboratory on April 20, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW21-20230420**					
Laboratory ID:	04-233-01					
Vinyl Chloride	ND	0.20	EPA 8260D	4-24-23	4-24-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-24-23	4-24-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-24-23	4-24-23	
Trichloroethene	ND	0.20	EPA 8260D	4-24-23	4-24-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-24-23	4-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*82*	*75-127*				
Toluene-d8	*90*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				
Client ID:	**MW05-20230420**					
Laboratory ID:	04-233-02					
Vinyl Chloride	4.1	0.20	EPA 8260D	4-24-23	4-24-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-24-23	4-24-23	
(cis) 1,2-Dichloroethene	0.54	0.20	EPA 8260D	4-24-23	4-24-23	
Trichloroethene	0.24	0.20	EPA 8260D	4-24-23	4-24-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-24-23	4-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*75-127*				
Toluene-d8	*93*	*80-127*				
4-Bromofluorobenzene	*94*	*78-125*				
Client ID:	**MW10-20230420**					
Laboratory ID:	04-233-03					
Vinyl Chloride	0.42	0.040	EPA 8260D/SIM	4-24-23	4-24-23	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	4-24-23	4-24-23	
(cis) 1,2-Dichloroethene	59	0.40	EPA 8260D	4-24-23	4-24-23	
Trichloroethene	7.8	0.40	EPA 8260D	4-24-23	4-24-23	
Tetrachloroethene	7.3	0.40	EPA 8260D	4-24-23	4-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*83*	*75-127*				
Toluene-d8	*88*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW09-20230420**					
Laboratory ID:	04-233-04					
Vinyl Chloride	ND	0.20	EPA 8260D/SIM	4-24-23	4-24-23	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	4-24-23	4-24-23	
(cis) 1,2-Dichloroethene	6.6	2.0	EPA 8260D	4-24-23	4-24-23	
Trichloroethene	2.9	2.0	EPA 8260D	4-24-23	4-24-23	
Tetrachloroethene	590	4.0	EPA 8260D	4-24-23	4-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-127*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*85*	*78-125*				
Client ID:	**MW28-20230420**					
Laboratory ID:	04-233-05					
Vinyl Chloride	9.7	0.40	EPA 8260D	4-24-23	4-24-23	
(trans) 1,2-Dichloroethene	0.46	0.40	EPA 8260D	4-24-23	4-24-23	
(cis) 1,2-Dichloroethene	79	0.40	EPA 8260D	4-24-23	4-24-23	
Trichloroethene	18	0.40	EPA 8260D	4-24-23	4-24-23	
Tetrachloroethene	23	0.40	EPA 8260D	4-24-23	4-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*84*	*75-127*				
Toluene-d8	*91*	*80-127*				
4-Bromofluorobenzene	*93*	*78-125*				
Client ID:	**MW03-20230419**					
Laboratory ID:	04-233-06					
Vinyl Chloride	1.1	0.20	EPA 8260D	4-24-23	4-24-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-24-23	4-24-23	
(cis) 1,2-Dichloroethene	5.4	0.20	EPA 8260D	4-24-23	4-24-23	
Trichloroethene	4.0	0.20	EPA 8260D	4-24-23	4-24-23	
Tetrachloroethene	0.88	0.20	EPA 8260D	4-24-23	4-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*82*	*75-127*				
Toluene-d8	*88*	*80-127*				
4-Bromofluorobenzene	*95*	*78-125*				

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
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:	MB0424W1					
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-24-23	4-24-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-24-23	4-24-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-24-23	4-24-23	
Trichloroethene	ND	0.20	EPA 8260D	4-24-23	4-24-23	
Tetrachloroethene	ND	0.20	EPA 8260D	4-24-23	4-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*81*	*75-127*				
Toluene-d8	*88*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0424W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.94**	**8.75**	10.0	10.0	99	88	71-135	13	20	
(trans) 1,2-Dichloroethene	**9.51**	**9.65**	10.0	10.0	95	97	80-125	1	17	
(cis) 1,2-Dichloroethene	**9.45**	**9.43**	10.0	10.0	95	94	80-129	0	17	
Trichloroethene	**11.2**	**10.9**	10.0	10.0	112	109	80-122	3	18	
Tetrachloroethene	**11.3**	**11.3**	10.0	10.0	113	113	80-124	0	18	
Surrogate:										
Dibromofluoromethane					*77*	*76*	*75-127*			
Toluene-d8					*85*	*86*	*80-127*			
4-Bromofluorobenzene					*105*	*106*	*78-125*			

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
Project: 0651-002

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW21-20230420**					
Laboratory ID:	04-233-01					
Methane	**8100**	83	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**ND**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*60*	*50-150*				
Client ID:	**MW05-20230420**					
Laboratory ID:	04-233-02					
Methane	**9600**	55	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**ND**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*67*	*50-150*				
Client ID:	**MW10-20230420**					
Laboratory ID:	04-233-03					
Methane	**5800**	42	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**ND**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*75*	*50-150*				
Client ID:	**MW09-20230420**					
Laboratory ID:	04-233-04					
Methane	**1000**	14	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**ND**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*78*	*50-150*				
Client ID:	**MW28-20230420**					
Laboratory ID:	04-233-05					
Methane	**1100**	11	RSK 175	4-26-23	4-26-23	
Ethane	**2.8**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**34**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*85*	*50-150*				

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
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:	MB0426W1					
Methane	**ND**	0.55	RSK 175	4-26-23	4-26-23	
Ethane	**ND**	0.22	RSK 175	4-26-23	4-26-23	
Ethene	**ND**	0.29	RSK 175	4-26-23	4-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*86*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0426W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**43.8**	**41.3**	44.2	44.2	99	93	75-125	6	25	
Ethane	**83.9**	**78.9**	83.2	83.2	101	95	75-125	6	25	
Ethene	**86.9**	**76.7**	77.7	77.7	112	99	75-125	12	25	
Surrogate:										
1-Butene					*106*	*93*	*50-150*			

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
Project: 0651-002

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW21-20230420**					
Laboratory ID:	04-233-01					
Sulfate	**35**	20	ASTM D516-11	4-27-23	4-27-23	
Client ID:	**MW05-20230420**					
Laboratory ID:	04-233-02					
Sulfate	**ND**	5.0	ASTM D516-11	4-27-23	4-27-23	
Client ID:	**MW10-20230420**					
Laboratory ID:	04-233-03					
Sulfate	**32**	10	ASTM D516-11	4-27-23	4-27-23	
Client ID:	**MW09-20230420**					
Laboratory ID:	04-233-04					
Sulfate	**30**	10	ASTM D516-11	4-27-23	4-27-23	
Client ID:	**MW28-20230420**					
Laboratory ID:	04-233-05					
Sulfate	**16**	5.0	ASTM D516-11	4-27-23	4-27-23	

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
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:	MB0427W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-27-23	4-27-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-234-01								
	ORIG	DUP							
Sulfate	**59.0**	**55.1**	NA	NA	NA	NA	7	10	
MATRIX SPIKE									
Laboratory ID:	04-234-01								
	MS		MS		MS				
Sulfate	**102**		50.0	59.0	86	72-128	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0427W1								
	SB		SB		SB				
Sulfate	**9.59**		10.0	NA	96	85-114	NA	NA	

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
Project: 0651-002

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW21-20230420**					
Laboratory ID:	04-233-01					
Chloride	**97**	2.0	SM 4500-Cl E	4-26-23	4-26-23	
Client ID:	**MW05-20230420**					
Laboratory ID:	04-233-02					
Chloride	**22**	2.0	SM 4500-Cl E	4-26-23	4-26-23	
Client ID:	**MW10-20230420**					
Laboratory ID:	04-233-03					
Chloride	**9.0**	2.0	SM 4500-Cl E	4-26-23	4-26-23	
Client ID:	**MW09-20230420**					
Laboratory ID:	04-233-04					
Chloride	**7.0**	2.0	SM 4500-Cl E	4-26-23	4-26-23	
Client ID:	**MW28-20230420**					
Laboratory ID:	04-233-05					
Chloride	**170**	4.0	SM 4500-Cl E	4-26-23	4-26-23	

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
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:	MB0426W1					
Chloride	**ND**	2.0	SM 4500-Cl E	4-26-23	4-26-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-205-06								
	ORIG	DUP							
Chloride	**11.2**	**12.0**	NA	NA	NA	NA	7	11	
MATRIX SPIKE									
Laboratory ID:	04-205-06								
	MS		MS		MS				
Chloride	**53.8**		50.0	11.2	85	85-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0426W1								
	SB		SB		SB				
Chloride	**45.0**		50.0	NA	90	90-119	NA	NA	

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
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:	**MW21-20230420**					
Laboratory ID:	04-233-01					
Nitrate	**ND**	0.050	EPA 353.2	4-28-23	4-28-23	
Client ID:	**MW05-20230420**					
Laboratory ID:	04-233-02					
Nitrate	**ND**	0.050	EPA 353.2	4-28-23	4-28-23	
Client ID:	**MW10-20230420**					
Laboratory ID:	04-233-03					
Nitrate	**ND**	0.050	EPA 353.2	4-28-23	4-28-23	
Client ID:	**MW09-20230420**					
Laboratory ID:	04-233-04					
Nitrate	**1.6**	0.050	EPA 353.2	4-28-23	4-28-23	
Client ID:	**MW28-20230420**					
Laboratory ID:	04-233-05					
Nitrate	**ND**	0.050	EPA 353.2	4-28-23	4-28-23	

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
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:	MB0428W1					
Nitrate	**ND**	0.050	EPA 353.2	4-28-23	4-28-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-256-01								
	ORIG	DUP							
Nitrate	**0.711**	**0.705**	NA	NA	NA	NA	1	10	
MATRIX SPIKE									
Laboratory ID:	04-256-01								
	MS		MS		MS				
Nitrate	**2.74**		2.00	0.711	101	88-125	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0428W1								
	SB		SB		SB				
Nitrate	**2.04**		2.00	NA	102	90-120	NA	NA	

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
Project: 0651-002

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW21-20230420**					
Laboratory ID:	04-233-01					
Total Organic Carbon	**4.4**	1.0	SM 5310B	4-21-23	4-21-23	
Client ID:	**MW05-20230420**					
Laboratory ID:	04-233-02					
Total Organic Carbon	**29**	1.0	SM 5310B	4-21-23	4-21-23	
Client ID:	**MW10-20230420**					
Laboratory ID:	04-233-03					
Total Organic Carbon	**1.6**	1.0	SM 5310B	4-21-23	4-21-23	
Client ID:	**MW09-20230420**					
Laboratory ID:	04-233-04					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-21-23	4-21-23	
Client ID:	**MW28-20230420**					
Laboratory ID:	04-233-05					
Total Organic Carbon	**3.3**	1.0	SM 5310B	4-21-23	4-21-23	

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
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:	MB0421W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-21-23	4-21-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-233-01								
	ORIG	DUP							
Total Organic Carbon	**4.43**	**4.36**	NA	NA	NA	NA	2	12	
MATRIX SPIKE									
Laboratory ID:	04-233-01								
	MS		MS		MS				
Total Organic Carbon	**14.5**		10.0	4.43	101	80-120	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0421W1								
	SB		SB		SB				
Total Organic Carbon	**9.96**		10.0	NA	100	80-118	NA	NA	

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
Project: 0651-002

TOTAL METALS
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW21-20230420**					
Laboratory ID:	04-233-01					
Iron	**2900**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**960**	10	EPA 6010D	4-21-23	4-21-23	
Client ID:	**MW05-20230420**					
Laboratory ID:	04-233-02					
Iron	**32000**	250	EPA 6010D	4-21-23	4-21-23	
Manganese	**2800**	50	EPA 6010D	4-21-23	4-21-23	
Client ID:	**MW10-20230420**					
Laboratory ID:	04-233-03					
Iron	**1200**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**290**	10	EPA 6010D	4-21-23	4-21-23	
Client ID:	**MW09-20230420**					
Laboratory ID:	04-233-04					
Iron	**58**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**110**	10	EPA 6010D	4-21-23	4-21-23	
Client ID:	**MW28-20230420**					
Laboratory ID:	04-233-05					
Iron	**560**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**380**	10	EPA 6010D	4-21-23	4-21-23	

Date of Report: May 11, 2023
Samples Submitted: April 20, 2023
Laboratory Reference: 2304-233
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:	MB0421WH1					
Iron	**ND**	50	EPA 6010D	4-21-23	4-21-23	
Manganese	**ND**	10	EPA 6010D	4-21-23	4-21-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-160-02										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Manganese	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	04-160-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**20800**	**19100**	20000	20000	ND	**104**	**96**	75-125	8	20	
Manganese	**514**	**483**	500	500	ND	**103**	**97**	75-125	6	20	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

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: 2304488

April 26, 2023

Attention David Baumeister:

Fremont Analytical, Inc. received 5 sample(s) on 4/20/2023 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *04/26/2023*

CLIENT: OnSite Environmental Inc
Project: The Hearthstone
Work Order: 2304488

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2304488-001	MW21-20230420	04/20/2023 10:07 AM	04/20/2023 4:00 PM
2304488-002	MW05-20230420	04/20/2023 10:15 AM	04/20/2023 4:00 PM
2304488-003	MW10-20230420	04/20/2023 11:10 AM	04/20/2023 4:00 PM
2304488-004	MW09-20230420	04/20/2023 11:22 AM	04/20/2023 4:00 PM
2304488-005	MW28-20230420	04/20/2023 12:08 PM	04/20/2023 4:00 PM

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

Case Narrative

WO#: **2304488**
Date: **4/26/2023**

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

Analytical Report

Work Order: **2304488**
Date Reported: **4/26/2023**

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2304488-001 **Collection Date:** 4/20/2023 10:07:00 AM
Client Sample ID: **MW21-20230420** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83325		Analyst: SLL
Ferrous Iron	4.24	0.750	D	mg/L	5	4/20/2023 2:00:00 PM

Lab ID: 2304488-002 **Collection Date:** 4/20/2023 10:15:00 AM
Client Sample ID: **MW05-20230420** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83325		Analyst: SLL
Ferrous Iron	42.5	15.0	D	mg/L	100	4/20/2023 2:00:00 PM

Lab ID: 2304488-003 **Collection Date:** 4/20/2023 11:10:00 AM
Client Sample ID: **MW10-20230420** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83325		Analyst: SLL
Ferrous Iron	1.36	0.150		mg/L	1	4/20/2023 2:00:00 PM

Lab ID: 2304488-004 **Collection Date:** 4/20/2023 11:22:00 AM
Client Sample ID: **MW09-20230420** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83325		Analyst: SLL
Ferrous Iron	ND	0.150		mg/L	1	4/20/2023 2:00:00 PM

Analytical Report

Work Order: **2304488**
Date Reported: **4/26/2023**

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2304488-005
Client Sample ID: **MW28-20230420**
Collection Date: 4/20/2023 12:08:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R83325		Analyst: SLL
Ferrous Iron	0.482	0.150		mg/L	1	4/20/2023 2:00:00 PM

Work Order: 2304488
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **MB-R83325**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **4/20/2023**	RunNo: **83325**
Client ID: **MBLKW**	Batch ID: **R83325**		Analysis Date: **4/20/2023**	SeqNo: **1735257**

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-R83325**	SampType: **LCS**	Units: **mg/L**	Prep Date: **4/20/2023**	RunNo: **83325**
Client ID: **LCSW**	Batch ID: **R83325**		Analysis Date: **4/20/2023**	SeqNo: **1735258**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.422	0.150	0.4000	0	106	85	115				

Sample ID: **2304459-001ADUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **4/20/2023**	RunNo: **83325**
Client ID: **BATCH**	Batch ID: **R83325**		Analysis Date: **4/20/2023**	SeqNo: **1735260**

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: **2304459-001AMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **4/20/2023**	RunNo: **83325**
Client ID: **BATCH**	Batch ID: **R83325**		Analysis Date: **4/20/2023**	SeqNo: **1735261**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.466	0.150	0.4000	0	116	70	130				

Sample ID: **2304459-001AMSD**	SampType: **MSD**	Units: **mg/L**	Prep Date: **4/20/2023**	RunNo: **83325**
Client ID: **BATCH**	Batch ID: **R83325**		Analysis Date: **4/20/2023**	SeqNo: **1735262**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.455	0.150	0.4000	0	114	70	130	0.4656	2.36	30	

Sample Log-In Check List

Client Name:	ONSITE	Work Order Number:	2304488
Logged by:	Clare Griggs	Date Received:	4/20/2023 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.	Coolers are present?	Yes	☑	No	☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes	☑	No	☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes	☐	No	☐	Not Present ☑
6.	Was an attempt made to cool the samples?	Yes	☑	No	☐	NA ☐
7.	Were all items received at a temperature of >2°C to 6°C *	Yes	☑	No	☐	NA ☐
8.	Sample(s) in proper container(s)?	Yes	☑	No	☐	
9.	Sufficient sample volume for indicated test(s)?	Yes	☑	No	☐	
10.	Are samples properly preserved?	Yes	☑	No	☐	
11.	Was preservative added to bottles?	Yes	☐	No	☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes	☐	No	☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes	☑	No	☐	
14.	Does paperwork match bottle labels?	Yes	☑	No	☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes	☑	No	☐	
16.	Is it clear what analyses were requested?	Yes	☑	No	☐	
17.	Were all holding times able to be met?	Yes	☑	No	☐	

Special Handling (if applicable)

18.	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: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample	5.2

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

Chain of Custody

Page 1 of 1

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

Company: **SoundEarth Strategies**
Project Number: **0651-002**
Project Name: **The Hearthstone**
Project Manager: **Tom Cammarata**
Sampled by: **Linnea Coleman, Kyle Lowery**

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

Laboratory Number: 2304488

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
	MW21-20230420	4/20/23	1007	H_2O	1						X								
	MW05-20230420		1015		1						X								
	MW10-20230420		1110		1						X								
	MW09-20230420		1122		1						X								
	MW28-20230420		1208		1						X								

LAC 4/20/23

	Signature	Company	Date	Time
Relinquished	[signature]	SES	4/20/23	1512
Received	[signature]	Alpha	4/20/23	1512
Relinquished	[signature]	Alpha	4/20/23	354
Received	[signature]	FAI	4/20/23	1600
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Direct bill to The Hearthstone
CVOCs = **PCE, TCE, cis/ trans-1,2-DCE, VC**
To be Sent To Fremont Analytical

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

SiREM
Leading Science · Lasting Solutions

130 Stone Rd. W
Guelph, ON N1G 3Z2
(519) 822-2265

Analytical Results

SiREM File Reference: S-9757

Client: Onsite Environmental Inc.
Client Project Number: 0651-002
Date Samples Received: April 25, 2023
Date Samples Analyzed: May 3, 2023

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
MW21-20230420	23-13670	20-Apr-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
MW05-20230420	23-13672	20-Apr-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
MW10-20230420	23-13673	20-Apr-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
MW09-20230420	23-13675	20-Apr-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	0.4 J
MW28-20230420	23-13677	20-Apr-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
QL	50			0.62	1.4	0.10	1.3	0.06	0.15
RL	50			2.0	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 = Reprting Limit
< = compound analysed 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.
Senior Laboratory Technician

Date:

11-May-23

S-9757

OnSite Environmental Inc.

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

Laboratory Reference #: 04-233

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: _____

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
	MW21-20230420	4/20/23	10:07	W	3	Volatile Organic Fatty Acids
	MW05-20230420	4/20/23	10:15	W	3	Volatile Organic Fatty Acids
	MW10-20230420	4/20/23	11:10	W	3	Volatile Organic Fatty Acids
	MW09-20230420	4/20/23	11:22	W	3	Volatile Organic Fatty Acids
	MW28-20230420	4/20/23	12:08	W	3	Volatile Organic Fatty Acids

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	ORE	4/24/23	1600	KX00058 5.4 °C KX00058 Blue Ice Good condition
Received by:	UPS	4/25		
Relinquished by:	UPS			
Received by: Susan Thomas	SiREM	4-25-2023	1100	
Relinquished by:				
Received by:				

EIM

SiREM

Chain-of-Custody Form

siremlab.com

SiREM Knoxville
180A Market Place Blvd.
Knoxville, TN 37922
Phone: 865.330.0037

Lab # 97757

*Project Name: Lab Reference 04-233
*Project #: 0651-002
*Project Manager: David Baumeister
*Company:
*Email Address: dbaumeister@onsite-env.com
Address (Street): 14648 NE 95th Street
City: Redmond
State/Province: WA
Country: 98052 USA
*Phone #: 425-883-3881
*Sampler's Signature:
*Sampler's Printed Name:

Analysis

Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	Gene-Trac DHC	Gene-Trac VC	Gene-Trac DHB	Gene-Trac DHG	Gene-Trac tceA	Volatile Fatty Acids	Dissolved hydrocarbon gases	Treatability Study				Other Information
MW21 - 20230420	4-20-23	10:07	VOA Vials	1						X						
MW05 - 20230420	↓	10:15	↓	1						X						
MW10 - 20230420		11:10		1						X						
MW09 - 20230420		11:22		1						X						
MW28 - 20230420	↓	1208	↓	1						X						
										5						

Preservative Key
0. None
1. HCL
2. Other
3. Other
4. Other
5. Other
6. Other

Billing Information
P.O. #:
*Bill To:

Turnaround Time Requested
Normal ☑
Rush ☐

For Lab Use Only
Cooler Condition: 4.6
Cooler Temperature: Good
Custody Seals: Yes ☐ No ☑

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Kaitland Cracchiolo	Printed Name: Jorda Finkbeiner	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: SiREM	Firm: SiREM	Firm:	Firm:	Firm:	Firm:
Date/Time: 04/27/23 1600	Date/Time: 4/28/23	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White return to Originator: Yellow Lab Copy: Pink Retained by Client
* Mandatory Fields

Chain of Custody

Page 1 of 1

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

Laboratory Number: 04-233

Company:	SoundEarth Strategies
Project Number:	0651-002
Project Name:	The Hearthstone
Project Manager:	Tom Cammarata
Sampled by:	Linnea Coleman, Kyle Lowery

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

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	CVOCs	Dissolved Gases (Methane, Ethane, Ethene) by RSK-175	Sulfate, Chloride, Nitrate by ~~EPA 300.0~~	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
1	MW21-20230420	4/20/23	1007	H2O	11	X	X	X	X	X	/	X							
2	MW05-20230420		1015			X	X	X	X	X	/	X							
3	MW10-20230420		1110			X	X	X	X	X	/	X							
4	MW09-20230420		1122			X	X	X	X	X	/	X							
5	MW28-20230420		1208			X	X	X	X	X	/	X							
6	MW03-20230419	4/19/23	1600		3	X													

Ferrous Iron sent to Fremont

LGL 4/20/23

	Signature	Company	Date	Time
Relinquished		SES	4/20/23	1512
Received		Alpha	4/20/23	1512
Relinquished		Alpha	4/20/23	5:10
Received		OSE	4/20/23	1710
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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

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: 04-233

Initiated by: MV

Date Initiated: 4/20/23

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:	4
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:

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 2023 Groundwater

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

November 2, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2310-300

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on October 25, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 2, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-300
Project: 0651-002

Case Narrative

Samples were collected on October 23, 2023 and received by the laboratory on October 25, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Volatiles EPA 8260D Analysis

The RPD for Hexachlorobutadiene is outside the control limits for the Spike Blank/Spike Blank Duplicate. The percent recoveries on both spike blanks are within recovery limits. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

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: November 2, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-300
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IW07-20231023**					
Laboratory ID:	10-300-01					
Vinyl Chloride	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	1.2	0.20	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*95*	*78-125*				
Client ID:	**IW08-20231023**					
Laboratory ID:	10-300-02					
Vinyl Chloride	1.9	0.40	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	51	0.40	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	0.84	0.40	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	1.6	0.40	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**IW15-20231023**					
Laboratory ID:	10-300-03					
Vinyl Chloride	5.8	0.40	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	51	0.40	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	1.6	0.40	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	0.62	0.40	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: November 2, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-300
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IW16-20231023**					
Laboratory ID:	10-300-04					
Vinyl Chloride	10	0.20	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	6.0	0.20	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	1.4	0.20	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	1.2	0.20	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**IW21-20231023**					
Laboratory ID:	10-300-05					
Vinyl Chloride	32	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	0.86	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	7.1	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	0.47	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**IW22-20231023**					
Laboratory ID:	10-300-06					
Vinyl Chloride	72	1.0	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	36	1.0	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	ND	1.0	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	ND	1.0	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				

Date of Report: November 2, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-300
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IW31-20231023**					
Laboratory ID:	10-300-07					
Vinyl Chloride	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	0.29	0.20	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**IW32-20231023**					
Laboratory ID:	10-300-08					
Vinyl Chloride	2000	40	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	40	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	9600	40	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	150	40	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	46	40	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**IW33-20231023**					
Laboratory ID:	10-300-09					
Vinyl Chloride	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	0.21	0.20	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	0.90	0.20	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: November 2, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-300
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IW34-20231023**					
Laboratory ID:	10-300-10					
Vinyl Chloride	16000	200	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	510	200	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	5600	200	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	ND	200	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	ND	200	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**IW55-20231023**					
Laboratory ID:	10-300-11					
Vinyl Chloride	1.3	0.20	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	1.9	0.20	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	0.22	0.20	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**IW57-20231023**					
Laboratory ID:	10-300-12					
Vinyl Chloride	0.27	0.20	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	0.25	0.20	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	0.23	0.20	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Date of Report: November 2, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-300
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IW59-20231023**					
Laboratory ID:	10-300-13					
Vinyl Chloride	69	1.0	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	12	1.0	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	ND	1.0	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	ND	1.0	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**IW60-20231023**					
Laboratory ID:	10-300-14					
Vinyl Chloride	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-127*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				
Client ID:	**IW61-20231023**					
Laboratory ID:	10-300-15					
Vinyl Chloride	22	0.20	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	0.49	0.20	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

Date of Report: November 2, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-300
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:	MB1027W2					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Trichloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Laboratory ID:	MB1101W1					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

Date of Report: November 2, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-300
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:	SB1027W2									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.74**	**9.61**	10.0	10.0	97	96	71-135	1	20	
(trans) 1,2-Dichloroethene	**9.80**	**9.71**	10.0	10.0	98	97	80-125	1	17	
(cis) 1,2-Dichloroethene	**9.80**	**10.1**	10.0	10.0	98	101	80-129	3	17	
Trichloroethene	**10.3**	**10.1**	10.0	10.0	103	101	80-122	2	18	
Tetrachloroethene	**9.98**	**9.57**	10.0	10.0	100	96	80-124	4	18	
Surrogate:										
Dibromofluoromethane					*105*	*105*	*75-127*			
Toluene-d8					*103*	*101*	*80-127*			
4-Bromofluorobenzene					*100*	*101*	*78-125*			
Laboratory ID:	SB1101W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.7**	**10.7**	10.0	10.0	107	107	71-135	0	20	
(trans) 1,2-Dichloroethene	**10.8**	**10.9**	10.0	10.0	108	109	80-125	1	17	
(cis) 1,2-Dichloroethene	**10.8**	**11.0**	10.0	10.0	108	110	80-129	2	17	
Trichloroethene	**10.8**	**11.1**	10.0	10.0	108	111	80-122	3	18	
Tetrachloroethene	**9.89**	**10.3**	10.0	10.0	99	103	80-124	4	18	
Surrogate:										
Dibromofluoromethane					*109*	*103*	*75-127*			
Toluene-d8					*102*	*99*	*80-127*			
4-Bromofluorobenzene					*102*	*104*	*78-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

Chain of Custody

Page 1 of 2

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

Company: 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: 10-300

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
1	IW07-20231023	10/23/23	1215	H_2O		X																					
2	IW08-20231023		1220			X																					
3	IW15-20231023		1235			X																					
4	IW16-20231023		1237			X																					
5	IW21-20231023		1250			X																					
6	IW22-20231023		1302			X																					
7	IW31-20231023		1320			X																					
8	IW32-20231023		1328			X																					
9	IW33-20231023		1320			X																					
10	IW34-20231023		1335			X																					

	Signature	Company	Date	Time
Relinquished		SES	10/25/23	1311
Received		ALPHA	10/25/23	1311
Relinquished		ALPHA	10/25/23	1406
Received		DSS	10/25/23	1406
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

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

Data Package: Standard ☒ Level III ☐ Level IV ☐

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

Chain of Custody

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

Company: 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: 10-300

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
11	IW55-20231023	10/23/23	1400	H_2O		X													
12	IW57-20231023	↓	1412	↓		X													
13	IW59-20231023		1415			X													
14	IW60-20231023		1405			X													
15	IW61-20231023		1425			X													

Relinquished — Signature: [signature] — Company: SES — Date: 10/25/23 — Time: 1311
Received — Signature: [signature] — Company: ALPHA — Date: 10/25/23 — Time: 1311
Relinquished — Signature: [signature] — Company: ALPHA — Date: 10/25/23 — Time: 1406
Received — Signature: [signature] — Company: OSE — Date: 10/25/23 — Time: 1406
Relinquished
Received
Reviewed/Date — Reviewed/Date

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

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: 10-300

Initiated by: MV

Date Initiated: 10/25/23

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:	6.6
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:

3.5) #3) 1 vial w/bubble
#8) 2 vials w/bubbles

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

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

November 17, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2310-304

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on October 25, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-304
Project: 0651-002

Case Narrative

Samples were collected on October 23 and 24, 2023 and received by the laboratory on October 25, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-304
Project: 0651-002

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW11-20231024**					
Laboratory ID:	10-304-02					
Methane	**5.9**	0.55	RSK 175	11-1-23	11-1-23	
Ethane	**ND**	0.56	RSK 175	11-1-23	11-1-23	
Ethene	**ND**	0.58	RSK 175	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*97*	*50-150*				
Client ID:	**MW06-20231024**					
Laboratory ID:	10-304-04					
Methane	**5400**	55	RSK 175	11-1-23	11-1-23	
Ethane	**1.7**	0.56	RSK 175	11-1-23	11-1-23	
Ethene	**42**	0.58	RSK 175	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*69*	*50-150*				
Client ID:	**MW13-20231024**					
Laboratory ID:	10-304-05					
Methane	**1.4**	0.55	RSK 175	11-1-23	11-1-23	
Ethane	**ND**	0.56	RSK 175	11-1-23	11-1-23	
Ethene	**ND**	0.58	RSK 175	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*110*	*50-150*				
Client ID:	**MW15-20231024**					
Laboratory ID:	10-304-07					
Methane	**5100**	55	RSK 175	11-1-23	11-1-23	
Ethane	**ND**	0.56	RSK 175	11-1-23	11-1-23	
Ethene	**ND**	0.58	RSK 175	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*84*	*50-150*				

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-304
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:	MB1101W1					
Methane	**ND**	0.55	RSK 175	11-1-23	11-1-23	
Ethane	**ND**	0.56	RSK 175	11-1-23	11-1-23	
Ethene	**ND**	0.58	RSK 175	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*103*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB1101W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**44.9**	**42.1**	44.2	44.2	102	95	75-125	6	25	
Ethane	**83.3**	**78.4**	83.2	83.2	100	94	75-125	6	25	
Ethene	**78.8**	**75.8**	77.7	77.7	101	98	75-125	4	25	
Surrogate:										
1-Butene					*106*	*102*	*50-150*			

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-304
Project: 0651-002

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW11-20231024**					
Laboratory ID:	10-304-02					
Total Organic Carbon	**ND**	1.0	SM 5310B	11-3-23	11-3-23	
Client ID:	**MW06-20231024**					
Laboratory ID:	10-304-04					
Total Organic Carbon	**5.0**	1.0	SM 5310B	11-3-23	11-3-23	
Client ID:	**MW13-20231024**					
Laboratory ID:	10-304-05					
Total Organic Carbon	**ND**	1.0	SM 5310B	11-3-23	11-3-23	
Client ID:	**MW15-20231024**					
Laboratory ID:	10-304-07					
Total Organic Carbon	**6.2**	1.0	SM 5310B	11-3-23	11-3-23	

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-304
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:	MB1103W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	11-3-23	11-3-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	10-304-02								
	ORIG	DUP							
Total Organic Carbon	**ND**	**ND**	NA	NA	NA	NA	NA	13	
MATRIX SPIKE									
Laboratory ID:	10-304-02								
	MS		MS		MS				
Total Organic Carbon	**10.1**		10.0	ND	101	86-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1103W1								
	SB		SB		SB				
Total Organic Carbon	**9.38**		10.0	NA	94	90-122	NA	NA	

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-304
Project: 0651-002

TOTAL METALS
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW11-20231024**					
Laboratory ID:	10-304-02					
Iron	**320**	56	EPA 6010D	11-2-23	11-2-23	
Manganese	**340**	11	EPA 6010D	11-2-23	11-2-23	
Client ID:	**MW06-20231024**					
Laboratory ID:	10-304-04					
Iron	**580**	56	EPA 6010D	11-2-23	11-2-23	
Manganese	**800**	11	EPA 6010D	11-2-23	11-2-23	
Client ID:	**MW13-20231024**					
Laboratory ID:	10-304-05					
Iron	**360**	56	EPA 6010D	11-2-23	11-2-23	
Manganese	**310**	11	EPA 6010D	11-2-23	11-2-23	
Client ID:	**MW15-20231024**					
Laboratory ID:	10-304-07					
Iron	**5100**	56	EPA 6010D	11-2-23	11-2-23	
Manganese	**520**	11	EPA 6010D	11-2-23	11-2-23	

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-304
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:	MB1102WM1					
Iron	**ND**	56	EPA 6010D	11-2-23	11-2-23	
Manganese	**ND**	11	EPA 6010D	11-2-23	11-2-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-192-04										
	ORIG	DUP									
Iron	**1840**	**1880**	NA	NA		NA		NA	2	20	
Manganese	**58.2**	**57.9**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	10-192-04										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**24500**	**24400**	22200	22200	1840	**102**	**102**	75-125	0	20	
Manganese	**604**	**600**	556	556	58.2	**98**	**97**	75-125	1	20	

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-304
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW08-20231023**					
Laboratory ID:	10-304-01					
Vinyl Chloride	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**MW25-20231024**					
Laboratory ID:	10-304-03					
Vinyl Chloride	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	0.45	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				
Client ID:	**MW06-20231024**					
Laboratory ID:	10-304-04					
Vinyl Chloride	72	0.80	EPA 8260D	10-26-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	10-26-23	10-27-23	
(cis) 1,2-Dichloroethene	48	0.80	EPA 8260D	10-26-23	10-27-23	
Trichloroethene	33	0.80	EPA 8260D	10-26-23	10-27-23	
Tetrachloroethene	17	0.80	EPA 8260D	10-26-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-304
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW99-20231024**					
Laboratory ID:	10-304-06					
Vinyl Chloride	80	0.80	EPA 8260D	10-26-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	10-26-23	10-27-23	
(cis) 1,2-Dichloroethene	51	0.80	EPA 8260D	10-26-23	10-27-23	
Trichloroethene	35	0.80	EPA 8260D	10-26-23	10-27-23	
Tetrachloroethene	17	0.80	EPA 8260D	10-26-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**MW15-20231024**					
Laboratory ID:	10-304-07					
Vinyl Chloride	ND	0.20	EPA 8260D	10-26-23	10-27-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-27-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-27-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-27-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-26-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-304
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:	MB1026W2					
Vinyl Chloride	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*105*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1026W2									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.53**	**9.22**	10.0	10.0	95	92	71-135	3	20	
(trans) 1,2-Dichloroethene	**10.6**	**10.7**	10.0	10.0	106	107	80-125	1	17	
(cis) 1,2-Dichloroethene	**10.9**	**11.2**	10.0	10.0	109	112	80-129	3	17	
Trichloroethene	**10.9**	**11.4**	10.0	10.0	109	114	80-122	4	18	
Tetrachloroethene	**10.5**	**11.3**	10.0	10.0	105	113	80-124	7	18	
Surrogate:										
Dibromofluoromethane					*105*	*105*	*75-127*			
Toluene-d8					*104*	*104*	*80-127*			
4-Bromofluorobenzene					*99*	*103*	*78-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Nov 7 2023
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your THE HEARTHSTONE project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
MW11-20231024	Water	23-A018818	MIN, NUT
MW06-20231024	Water	23-A018819	MIN, NUT
MW13-20231024	Water	23-A018820	MIN, NUT
MW15-20231024	Water	23-A018821	MIN, NUT

Your samples were received on Wednesday, October 25, 2023. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

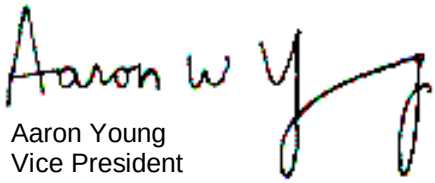
The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,



Aaron Young
Vice President

Project #: 0651-002
SDG #: 2331920

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: THE HEARTHSTONE
SDG Number: 2331920
Project #: 0651-002
All results reported on an as received basis.

Date Received: 10/25/23
Date Reported: 11/ 7/23

AMTEST Identification Number **23-A018818**
Client Identification **MW11-20231024**
Sampling Date **10/24/23, 10:32**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	12.5	mg/l		0.1	EPA 300.0	EZ	10/30/23
Sulfate	44.5	mg/l		0.1	EPA 300.0	EZ	10/30/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.025	mg/l		0.025	EPA 300.0	EZ	10/26/23

AMTEST Identification Number **23-A018819**
Client Identification **MW06-20231024**
Sampling Date **10/24/23, 11:30**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	84.7	mg/l		0.1	EPA 300.0	EZ	10/30/23
Sulfate	14.6	mg/l		0.1	EPA 300.0	EZ	10/30/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.025	mg/l		0.025	EPA 300.0	EZ	10/26/23

AMTEST Identification Number **23-A018820**
Client Identification **MW13-20231024**
Sampling Date **10/24/23, 11:58**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	8.32	mg/l		0.1	EPA 300.0	EZ	10/30/23
Sulfate	32.8	mg/l		0.1	EPA 300.0	EZ	10/30/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.025	mg/l		0.025	EPA 300.0	EZ	10/26/23

AMTEST Identification Number **23-A018821**
Client Identification **MW15-20231024**
Sampling Date **10/24/23, 13:32**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	108.	mg/l		0.1	EPA 300.0	EZ	10/30/23
Sulfate	9.58	mg/l		0.1	EPA 300.0	EZ	10/26/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	0.937	mg/l		0.025	EPA 300.0	EZ	10/26/23

Aaron Young
Vice President

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample numbers: 23-A018818 to 23-A018821

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
23-A018667	Sulfate	mg/l	11.9	12.2	2.5

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
23-A018667	Sulfate	mg/l	11.9	21.9	10.0	100.00 %

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Chloride	mg/l	2.00	2.29	114. %
Chloride	mg/l	2.00	2.23	112. %
Nitrate	mg/l	2.00	2.08	104. %
Nitrate	mg/l	2.00	2.08	104. %
Sulfate	mg/l	2.00	1.95	97.5 %
Sulfate	mg/l	2.00	2.00	100. %
Sulfate	mg/l	2.00	2.26	113. %
Sulfate	mg/l	2.00	2.30	115. %

BLANKS

ANALYTE	UNITS	RESULT
Chloride	mg/l	< 0.1
Chloride	mg/l	< 0.1
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1

OnSite Environmental Inc.

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

Laboratory Reference #: 10-304

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other:

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name: The Hearthstone

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
18818	MW11-20231024	10/24/23	10:32	Water	1	Sulfate, Chloride, Nitrate by EPA 300
18819	MW06-20231024	10/24/23	11:30	Water	1	Sulfate, Chloride, Nitrate by EPA 300
18820	MW13-20231024	10/24/23	11:58	Water	1	Sulfate, Chloride, Nitrate by EPA 300
18821	MW15-20231024	10/24/23	13:32	Water	1	Sulfate, Chloride, Nitrate by EPA 300

	Company	Date	Time	Comments/Special Instructions
Relinquished by: Katelyn Pickard	OSE	10/25	1542	EIM
Received by: CF	AmTest	10/25/23	1542	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

T = 8.7°C

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: 2310419

October 26, 2023

Attention David Baumeister:

Fremont Analytical, Inc. received 4 sample(s) on 10/24/2023 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *10/26/2023*

CLIENT: OnSite Environmental Inc
Project: The Hearthstone
Work Order: 2310419

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2310419-001	MW11-20231024	10/24/2023 10:32 AM	10/24/2023 5:42 PM
2310419-002	MW06-20231024	10/24/2023 11:30 AM	10/24/2023 5:42 PM
2310419-003	MW13-20231024	10/24/2023 11:58 AM	10/24/2023 5:42 PM
2310419-004	MW15-20231024	10/24/2023 1:32 PM	10/24/2023 5:42 PM

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

Case Narrative

WO#: **2310419**
Date: **10/26/2023**

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: 2310419-001 **Collection Date:** 10/24/2023 10:32:00 AM
Client Sample ID: **MW11-20231024** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87418		Analyst: AM
Ferrous Iron	ND	0.150		mg/L	1	10/25/2023 10:30:00 AM

Lab ID: 2310419-002 **Collection Date:** 10/24/2023 11:30:00 AM
Client Sample ID: **MW06-20231024** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87418		Analyst: AM
Ferrous Iron	0.644	0.150		mg/L	1	10/25/2023 10:30:00 AM

Lab ID: 2310419-003 **Collection Date:** 10/24/2023 11:58:00 AM
Client Sample ID: **MW13-20231024** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87418		Analyst: AM
Ferrous Iron	0.221	0.150		mg/L	1	10/25/2023 10:30:00 AM

Lab ID: 2310419-004 **Collection Date:** 10/24/2023 1:32:00 PM
Client Sample ID: **MW15-20231024** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87418		Analyst: AM
Ferrous Iron	2.43	0.300	D	mg/L	2	10/25/2023 10:30:00 AM

Work Order: 2310419
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **LCS-R87418**	SampType: **LCS**			Units: **mg/L**		Prep Date: **10/25/2023**		RunNo: **87418**		
Client ID: **LCSW**	Batch ID: **R87418**					Analysis Date: **10/25/2023**		SeqNo: **1824128**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.357	0.150	0.4000	0	89.3	85	115				

Sample ID: **2310419-002ADUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **10/25/2023**		RunNo: **87418**		
Client ID: **MW06-20231024**	Batch ID: **R87418**					Analysis Date: **10/25/2023**		SeqNo: **1824130**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.599	0.150						0.6441	7.29	20	

Sample ID: **2310419-003AMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **10/25/2023**		RunNo: **87418**		
Client ID: **MW13-20231024**	Batch ID: **R87418**					Analysis Date: **10/25/2023**		SeqNo: **1824144**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.714	0.150	0.4000	0.2210	123	70	130				

Sample ID: **2310419-003AMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **10/25/2023**		RunNo: **87418**		
Client ID: **MW13-20231024**	Batch ID: **R87418**					Analysis Date: **10/25/2023**		SeqNo: **1824145**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.677	0.150	0.4000	0.2210	114	70	130	0.7136	5.21	30	

Fremont Analytical
An Alliance Technical Group Company

Sample Log-In Check List

Client Name:	ONSITE	Work Order Number:	2310419
Logged by:	Morgan Wilson	Date Received:	10/24/2023 5:42:00 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 ☐
	Samples were collected the same day and chilled.			
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp ºC
Sample	10.6

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

Fremont

Chain of Custody

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

Company: ~~SoundEarth Strategies~~ onsite enviro
Project Number: 0651-002
Project Name: The Hearthstone
Project Manager: Tom Cammarata
Sampled by: Linnea Coleman

David Baumeister

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

Laboratory Number: 2310419

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
	MW11-20231024	10/24/23	1032	H_2O	1						X								
	MW06-20231024		1130		1						X								
	MW13-20231024		1158		1						X								
	MW15-20231024		1332		1						X								

LGC 10/24/23

	Signature	Company	Date	Time
Relinquished		SES	10/24/23	1741
Received		FAI	10/24/23	1742
Relinquished				
Received				
Relinquished				
Received				
~~Reviewed/Date~~		Reviewed/Date		

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

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

SiREM
Leading Science · Lasting Solutions

130 Stone Rd. W
Guelph, ON N1G 3Z2
(519) 822-2265

Analytical Results

SiREM File Reference: S-10117

Client: OnSite Environmental Inc.
Client Project Number: 0651-002
Date Samples Received: October 27, 2023
Date Samples Analyzed: November 2, 2023

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
MW11-20231024	23-15745	24-Oct-23	50x	<0.50	1.0 J	<0.26	<0.25	<0.06	<0.75
MW06-20231024	23-15746	24-Oct-23	50x	<0.50	0.81 J	<0.26	<0.25	<0.06	<0.75
MW13-20231024	23-15747	24-Oct-23	50x	<0.50	0.63 J	<0.26	<0.25	<0.06	<0.75
MW15-20231024	23-15748	24-Oct-23	50x	<0.50	0.97 J	<0.26	<0.25	<0.06	<0.75
QL	50			0.50	0.30	0.26	0.25	0.06	0.75
RL	50			2.0	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 = Reprting 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:
9-Nov-23

OnSite Environmental Inc.

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

S-10117

Laboratory Reference #: 10-304

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: _____

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
	MW11-20231024	10/24/23	10:32	Water	3	Volatile Organic Fatty Acids
	MW06-20231024	10/24/23	11:30	Water	3	Volatile Organic Fatty Acids
	MW13-20231024	10/24/23	11:58	Water	3	Volatile Organic Fatty Acids
	MW15-20231024	10/24/23	13:32	Water	3	Volatile Organic Fatty Acids

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	ONE UPS	10/26/23	1600	2.6°C KX0002216 Good condition Wet ice Blue
Received by:				
Relinquished by:	UPS			
Received by: Susan Thomas	SiREM	10-27-23	1115	
Relinquished by:				
Received by:				

EIM

COPY

OnSite Environmental Inc.

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

8-10/17

Laboratory Reference #: 10-304

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: _____

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
•	MW11-20231024	10/24/23	10:32	Water	3	Volatile Organic Fatty Acids
•	MW06-20231024	10/24/23	11:30	Water	3	Volatile Organic Fatty Acids
•	MW13-20231024	10/24/23	11:58	Water	3	Volatile Organic Fatty Acids
•	MW15-20231024	10/24/23	13:32	Water	3	Volatile Organic Fatty Acids

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	CORE	10/26/23	1600	2.6°C KX000216 Good condition wet ice Blue
Received by:	UPS			
Relinquished by:	UPS			
Received by: Susan Thomas	SiREM	10-27-23	1115	
Relinquished by: Kyra Williams Kyra Williams	SiREM	103023	1600	
Received by: Celine Druan	SiREM	01/11/23	11:15 am	2.0°C

EIM

Chain of Custody

Page 1 of 1

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

Company: 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: 10-304

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
1	MW08-20231023	10/23/23	1554	H_2O	3	X													
2	MW11-20231024	10/24/23	1032		8		X	X	X	X		X							
3	MW25-20231024		1035		3	X													
4	MW06-20231024		1130		11	X	X	X	X	X		X							
5	MW13-20231024		1158		8		X	X	X	X		X							
6	MW99-20231024		1200		3	X													
7	MW15-20231024		1332		11	X	X	X	X	X		X							
				GL 10/24/23															

	Signature	Company	Date	Time
Relinquished	[signature]	SES	10/25/23	1311
Received	[signature]	ALPHA	10/25/23	1311
Relinquished	[signature]	ALPHA	10/25/23	1406
Received	[signature]	OSE	10/25/23	1406
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

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

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: 10-304

Initiated by: AMV

Date Initiated: 10/25/23

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:	6.6
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:

3.7) NO_3 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

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

November 17, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2310-305

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on October 25, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
Project: 0651-002

Case Narrative

Samples were collected on October 24 and 25, 2023 and received by the laboratory on October 25, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
Project: 0651-002

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW21-20231025**					
Laboratory ID:	10-305-07					
Methane	**7400**	55	RSK 175	10-27-23	10-27-23	
Ethane	**ND**	0.56	RSK 175	10-27-23	10-27-23	
Ethene	**ND**	0.58	RSK 175	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*92*	*50-150*				
Client ID:	**MW19-20231025**					
Laboratory ID:	10-305-08					
Methane	**ND**	0.55	RSK 175	10-27-23	10-27-23	
Ethane	**ND**	0.56	RSK 175	10-27-23	10-27-23	
Ethene	**ND**	0.58	RSK 175	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*102*	*50-150*				
Client ID:	**MW10-20231025**					
Laboratory ID:	10-305-09					
Methane	**5500**	55	RSK 175	10-27-23	10-27-23	
Ethane	**ND**	0.56	RSK 175	10-27-23	10-27-23	
Ethene	**ND**	0.58	RSK 175	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*102*	*50-150*				
Client ID:	**MW32-20231025**					
Laboratory ID:	10-305-10					
Methane	**3900**	55	RSK 175	10-27-23	10-27-23	
Ethane	**ND**	0.56	RSK 175	10-27-23	10-27-23	
Ethene	**14**	0.58	RSK 175	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*101*	*50-150*				
Client ID:	**MW09-20231025**					
Laboratory ID:	10-305-11					
Methane	**3500**	55	RSK 175	10-27-23	10-27-23	
Ethane	**ND**	0.56	RSK 175	10-27-23	10-27-23	
Ethene	**ND**	0.58	RSK 175	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*97*	*50-150*				

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
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:	MB1027W1					
Methane	**ND**	0.55	RSK 175	10-27-23	10-27-23	
Ethane	**ND**	0.56	RSK 175	10-27-23	10-27-23	
Ethene	**ND**	0.58	RSK 175	10-27-23	10-27-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*106*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB1027W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**46.2**	**48.3**	44.2	44.2	105	109	75-125	4	25	
Ethane	**86.7**	**91.3**	83.2	83.2	104	110	75-125	5	25	
Ethene	**79.3**	**85.9**	77.7	77.7	102	111	75-125	8	25	
Surrogate:										
1-Butene					*103*	*112*	*50-150*			

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
Project: 0651-002

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW21-20231025**					
Laboratory ID:	10-305-07					
Total Organic Carbon	**7.6**	1.0	SM 5310B	11-3-23	11-3-23	
Client ID:	**MW19-20231025**					
Laboratory ID:	10-305-08					
Total Organic Carbon	**2.3**	1.0	SM 5310B	11-3-23	11-3-23	
Client ID:	**MW10-20231025**					
Laboratory ID:	10-305-09					
Total Organic Carbon	**ND**	1.0	SM 5310B	11-3-23	11-3-23	
Client ID:	**MW32-20231025**					
Laboratory ID:	10-305-10					
Total Organic Carbon	**2.2**	1.0	SM 5310B	11-3-23	11-3-23	
Client ID:	**MW09-20231025**					
Laboratory ID:	10-305-11					
Total Organic Carbon	**ND**	1.0	SM 5310B	11-3-23	11-3-23	

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
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:	MB1103W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	11-3-23	11-3-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-304-02							
	ORIG DUP							
Total Organic Carbon	**ND** **ND**	NA	NA	NA	NA	NA	13	
MATRIX SPIKE								
Laboratory ID:	10-304-02							
	MS	MS		MS				
Total Organic Carbon	**10.1**	10.0	ND	101	86-127	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1103W1							
	SB	SB		SB				
Total Organic Carbon	**9.38**	10.0	NA	94	90-122	NA	NA	

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
Project: 0651-002

TOTAL METALS
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW21-20231025**					
Laboratory ID:	10-305-07					
Iron	**8500**	56	EPA 6010D	11-2-23	11-2-23	
Manganese	**950**	11	EPA 6010D	11-2-23	11-2-23	
Client ID:	**MW19-20231025**					
Laboratory ID:	10-305-08					
Iron	**ND**	56	EPA 6010D	11-2-23	11-2-23	
Manganese	**150**	11	EPA 6010D	11-2-23	11-2-23	
Client ID:	**MW10-20231025**					
Laboratory ID:	10-305-09					
Iron	**2100**	56	EPA 6010D	11-2-23	11-2-23	
Manganese	**260**	11	EPA 6010D	11-2-23	11-2-23	
Client ID:	**MW32-20231025**					
Laboratory ID:	10-305-10					
Iron	**240**	56	EPA 6010D	11-2-23	11-2-23	
Manganese	**220**	11	EPA 6010D	11-2-23	11-2-23	
Client ID:	**MW09-20231025**					
Laboratory ID:	10-305-11					
Iron	**65**	56	EPA 6010D	11-2-23	11-2-23	
Manganese	**200**	11	EPA 6010D	11-2-23	11-2-23	

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
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:	MB1102WM1					
Iron	**ND**	56	EPA 6010D	11-2-23	11-2-23	
Manganese	**ND**	11	EPA 6010D	11-2-23	11-2-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-192-04										
	ORIG	DUP									
Iron	**1840**	**1880**	NA	NA		NA		NA	2	20	
Manganese	**58.2**	**57.9**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	10-192-04										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**24500**	**24400**	22200	22200	1840	**102**	**102**	75-125	0	20	
Manganese	**604**	**600**	556	556	58.2	**98**	**97**	75-125	1	20	

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW33-20231024**					
Laboratory ID:	10-305-01					
Vinyl Chloride	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	0.57	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**MW30-20231024**					
Laboratory ID:	10-305-02					
Vinyl Chloride	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**MW37-20231024**					
Laboratory ID:	10-305-03					
Vinyl Chloride	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW26-20231024**					
Laboratory ID:	10-305-04					
Vinyl Chloride	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	0.57	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**MW22-20231024**					
Laboratory ID:	10-305-05					
Vinyl Chloride	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				
Client ID:	**MW27-20231025**					
Laboratory ID:	10-305-06					
Vinyl Chloride	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW21-20231025**					
Laboratory ID:	10-305-07					
Vinyl Chloride	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*106*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**MW10-20231025**					
Laboratory ID:	10-305-09					
Vinyl Chloride (SIM)	0.53	0.080	EPA 8260D/SIM	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	140	0.80	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	17	0.80	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	5.0	0.80	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**MW32-20231025**					
Laboratory ID:	10-305-10					
Vinyl Chloride	3.1	0.20	EPA 8260D	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	0.27	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	0.21	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	1.0	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW09-20231025**					
Laboratory ID:	10-305-11					
Vinyl Chloride (SIM)	0.37	0.20	EPA 8260D/SIM	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	15	2.0	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	5.3	2.0	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	760	10	EPA 8260D	10-31-23	10-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*94*	*78-125*				

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
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:	MB1026W2					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-26-23	10-26-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Trichloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-26-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*105*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Laboratory ID:	MB1031W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-31-23	10-31-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-31-23	10-31-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-31-23	10-31-23	
Trichloroethene	ND	0.20	EPA 8260D	10-31-23	10-31-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-31-23	10-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				

Date of Report: November 17, 2023
Samples Submitted: October 25, 2023
Laboratory Reference: 2310-305
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:	SB1026W2									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.53**	**9.22**	10.0	10.0	95	92	71-135	3	20	
(trans) 1,2-Dichloroethene	**10.6**	**10.7**	10.0	10.0	106	107	80-125	1	17	
(cis) 1,2-Dichloroethene	**10.9**	**11.2**	10.0	10.0	109	112	80-129	3	17	
Trichloroethene	**10.9**	**11.4**	10.0	10.0	109	114	80-122	4	18	
Tetrachloroethene	**10.5**	**11.3**	10.0	10.0	105	113	80-124	7	18	
Surrogate:										
Dibromofluoromethane					*105*	*105*	*75-127*			
Toluene-d8					*104*	*104*	*80-127*			
4-Bromofluorobenzene					*99*	*103*	*78-125*			
Laboratory ID:	SB1031W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.4**	**10.4**	10.0	10.0	104	104	71-135	0	20	
(trans) 1,2-Dichloroethene	**9.99**	**10.0**	10.0	10.0	100	100	80-125	0	17	
(cis) 1,2-Dichloroethene	**9.89**	**10.2**	10.0	10.0	99	102	80-129	3	17	
Trichloroethene	**10.1**	**10.2**	10.0	10.0	101	102	80-122	1	18	
Tetrachloroethene	**9.85**	**9.57**	10.0	10.0	99	96	80-124	3	18	
Surrogate:										
Dibromofluoromethane					*102*	*102*	*75-127*			
Toluene-d8					*101*	*98*	*80-127*			
4-Bromofluorobenzene					*101*	*99*	*78-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Nov 9 2023
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
MW21-20231025	Water	23-A018822	MIN, NUT
MW19-20231025	Water	23-A018823	MIN, NUT
MW10-20231025	Water	23-A018824	MIN, NUT
MW32-20231025	Water	23-A018825	MIN, NUT
MW09-20231025	Water	23-A018826	MIN, NUT

Your samples were received on Wednesday, October 25, 2023. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

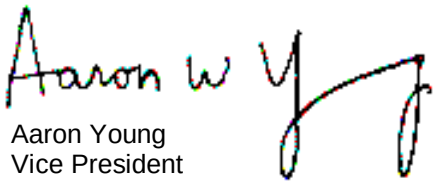
The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,



Aaron Young
Vice President

Project #: 0651-002
SDG #: 2331930

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
SDG Number: 2331930
Project #: 0651-002
All results reported on an as received basis.

Date Received: 10/25/23
Date Reported: 11/ 9/23

AMTEST Identification Number **23-A018822**
Client Identification **MW21-20231025**
Sampling Date **10/25/23, 10:05**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	23.8	mg/l		0.1	EPA 300.0	EZ	10/26/23
Sulfate	1.54	mg/l		0.1	EPA 300.0	EZ	10/26/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.125	mg/l		0.025	EPA 300.0	EZ	10/26/23

AMTEST Identification Number **23-A018823**
Client Identification **MW19-20231025**
Sampling Date **10/25/23, 10:38**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	153.	mg/l		0.1	EPA 300.0	EZ	10/30/23
Sulfate	38.2	mg/l		0.1	EPA 300.0	EZ	10/30/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	0.095	mg/l		0.025	EPA 300.0	EZ	10/26/23

AMTEST Identification Number **23-A018824**
Client Identification **MW10-20231025**
Sampling Date **10/25/23, 11:30**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	8.49	mg/l		0.1	EPA 300.0	EZ	10/26/23
Sulfate	31.0	mg/l		0.1	EPA 300.0	EZ	10/30/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.025	mg/l		0.025	EPA 300.0	EZ	10/26/23

AMTEST Identification Number **23-A018825**
Client Identification **MW32-20231025**
Sampling Date **10/25/23, 12:20**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	13.5	mg/l		0.1	EPA 300.0	EZ	10/30/23
Sulfate	26.4	mg/l		0.1	EPA 300.0	EZ	10/30/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	0.030	mg/l		0.025	EPA 300.0	EZ	10/26/23

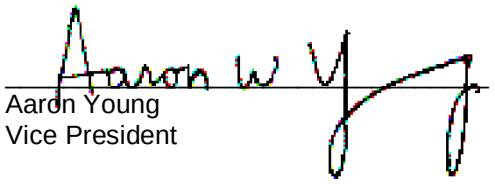
AMTEST Identification Number **23-A018826**
Client Identification **MW09-20231025**
Sampling Date **10/25/23, 12:55**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	8.44	mg/l		0.1	EPA 300.0	EZ	10/26/23
Sulfate	31.7	mg/l		0.1	EPA 300.0	EZ	11/07/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	0.842	mg/l		0.025	EPA 300.0	EZ	10/26/23



Aaron Young
Vice President

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample numbers: 23-A018822 to 23-A018826

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
23-A018667	Chloride	mg/l	7.21	7.21	0.00
23-A018667	Sulfate	mg/l	11.9	12.2	2.5

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
23-A018667	Chloride	mg/l	7.21	17.2	10.0	99.90 %
23-A018667	Sulfate	mg/l	11.9	21.9	10.0	100.00 %

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Chloride	mg/l	2.00	2.01	100. %
Chloride	mg/l	2.00	2.03	102. %
Chloride	mg/l	2.00	2.29	114. %
Chloride	mg/l	2.00	2.23	112. %
Nitrate	mg/l	2.00	2.08	104. %
Nitrate	mg/l	2.00	2.08	104. %
Sulfate	mg/l	2.00	1.95	97.5 %
Sulfate	mg/l	2.00	2.00	100. %
Sulfate	mg/l	2.00	2.26	113. %
Sulfate	mg/l	2.00	2.30	115. %

BLANKS

ANALYTE	UNITS	RESULT
Chloride	mg/l	< 0.1
Chloride	mg/l	< 0.1
Chloride	mg/l	< 0.1
Chloride	mg/l	< 0.1
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1

OnSite Environmental Inc.

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

Laboratory Reference #: 10-305

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
18822	MW21-20231025	10/25/23	10:05	W	1	Sulfate, Chloride, Nitrate EPA 300
18823	MW19-20231025	10/25/23	10:38	W	1	Sulfate, Chloride, Nitrate EPA 300
18824	MW10-20231025	10/25/23	11:30	W	1	Sulfate, Chloride, Nitrate EPA 300
18825	MW32-20231025	10/25/23	12:20	W	1	Sulfate, Chloride, Nitrate EPA 300
18826	MW09-20231025	10/25/23	12:55	W	1	Sulfate, Chloride, Nitrate EPA 300

	Company	Date	Time	Comments/Special Instructions
Relinquished by: Katelyn Pickard	OSE	10/25	1542	EIM
Received by: LF	AmTest	10/25/23	1542	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

T = 11.7°C

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: 2310443

November 01, 2023

Attention David Baumeister:

Fremont Analytical, Inc. received 5 sample(s) on 10/25/2023 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *11/01/2023*

CLIENT: OnSite Environmental Inc
Project: The Hearthstone
Work Order: 2310443

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2310443-001	MW21-20231025	10/25/2023 10:05 AM	10/25/2023 1:35 PM
2310443-002	MW19-20231025	10/25/2023 10:38 AM	10/25/2023 1:35 PM
2310443-003	MW10-20231025	10/25/2023 11:30 AM	10/25/2023 1:35 PM
2310443-004	MW32-20231025	10/25/2023 12:20 PM	10/25/2023 1:35 PM
2310443-005	MW09-20231025	10/25/2023 12:55 PM	10/25/2023 1:35 PM

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

Case Narrative

WO#: **2310443**
Date: **11/1/2023**

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: 2310443-001 **Collection Date:** 10/25/2023 10:05:00 AM
Client Sample ID: **MW21-20231025** **Matrix:** Water

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87497		Analyst: FG
Ferrous Iron	11.0	3.75	DH	mg/L	25	10/26/2023 10:12:00 AM

Lab ID: 2310443-002 **Collection Date:** 10/25/2023 10:38:00 AM
Client Sample ID: **MW19-20231025** **Matrix:** Water

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87497		Analyst: FG
Ferrous Iron	ND	0.150		mg/L	1	10/26/2023 10:12:00 AM

Lab ID: 2310443-003 **Collection Date:** 10/25/2023 11:30:00 AM
Client Sample ID: **MW10-20231025** **Matrix:** Water

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87497		Analyst: FG
Ferrous Iron	2.33	0.300	D	mg/L	2	10/26/2023 10:12:00 AM

Lab ID: 2310443-004 **Collection Date:** 10/25/2023 12:20:00 PM
Client Sample ID: **MW32-20231025** **Matrix:** Water

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87497		Analyst: FG
Ferrous Iron	0.306	0.150		mg/L	1	10/26/2023 10:12:00 AM

Analytical Report

Work Order: **2310443**
Date Reported: **11/1/2023**

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2310443-005 **Collection Date:** 10/25/2023 12:55:00 PM
Client Sample ID: **MW09-20231025** **Matrix:** Water

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87497		Analyst: FG
Ferrous Iron	ND	0.150		mg/L	1	10/26/2023 10:12:00 AM

Work Order: 2310443
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **2310443-001ADUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **10/26/2023**	RunNo: **87497**
Client ID: **MW21-20231025**	Batch ID: **R87497**		Analysis Date: **10/26/2023**	SeqNo: **1825650**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	10.6	3.75						10.97	3.51	20	DH

Sample ID: **2310443-001AMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **10/26/2023**	RunNo: **87497**
Client ID: **MW21-20231025**	Batch ID: **R87497**		Analysis Date: **10/26/2023**	SeqNo: **1825651**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	23.3	3.75	10.00	10.97	123	70	130				DH

Sample ID: **2310443-001AMSD**	SampType: **MSD**	Units: **mg/L**	Prep Date: **10/26/2023**	RunNo: **87497**
Client ID: **MW21-20231025**	Batch ID: **R87497**		Analysis Date: **10/26/2023**	SeqNo: **1825652**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	22.9	3.75	10.00	10.97	119	70	130	23.28	1.64	30	DH

Sample ID: **MB-R87497**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **10/26/2023**	RunNo: **87497**
Client ID: **MBLKW**	Batch ID: **R87497**		Analysis Date: **10/26/2023**	SeqNo: **1825824**

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-R87497**	SampType: **LCS**	Units: **mg/L**	Prep Date: **10/26/2023**	RunNo: **87497**
Client ID: **LCSW**	Batch ID: **R87497**		Analysis Date: **10/26/2023**	SeqNo: **1825825**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.393	0.150	0.4000	0	98.3	85	115				

Fremont Analytical
An Alliance Technical Group Company

Sample Log-In Check List

Client Name:	ONSITE	Work Order Number:	2310443
Logged by:	Clare Griggs	Date Received:	10/25/2023 1:33:00 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 ☐
	Samples were collected the same day and chilled.			
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☐	No ☑	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp ºC
Sample	9.1

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

Fremont

Chain of Custody

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

Company: 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: 2310443

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
	MW21-20231025	10/25/23	1005	H_2O	1						X								
	MW19-20231025		1038		1						X								
	MW10-20231025		1130		1						X								
	MW32-20231025		1220		1						X								
	MW09-20231025		1255		1						X								

LGC
10/25/23

	Signature	Company	Date	Time
Relinquished	[signature]	SoundEarth	10/25/23	1311
Received	[signature]	ALPHA	10/25/23	1311
Relinquished	[signature]	ALPHA	10/25/23	1333
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

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

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

Fremont

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
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Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 2310443

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
	MW21-20231025	10/25/23	1005	H2O	1						X								
	MW19-20231025		1038		1						X								
	MW10-20231025		1130		1						X								
	MW32-20231025		1220		1						X								
	MW09-20231025		1255		1						X								

LGC 10/25/23

	Signature	Company	Date	Time
Relinquished		Sound Earth	10/25/23	1311
Received		ALPHA	10/25/23	1311
Relinquished		ALPHA	10/25/23	1333
Received		Alliance	10/25/23	13:35
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

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

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

SiREM
Leading Science · Lasting Solutions

130 Stone Rd. W
Guelph, ON N1G 3Z2
(519) 822-2265

Analytical Results

SiREM File Reference: S-10118

Client: OnSite Environmental Inc.
Client Project Number: 0651-002
Date Samples Received: October 27, 2023
Date Samples Analyzed: November 2, 2023

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
MW21-20231025	23-15749	25-Oct-23	50x	<0.50	0.79 J	<0.26	<0.25	<0.06	<0.75
MW19-20231025	23-15750	25-Oct-23	50x	<0.50	0.84 J	<0.26	<0.25	<0.06	<0.75
MW10-20231025	23-15751	25-Oct-23	50x	2.4	18	<0.26	82	<0.06	<0.75
MW32-20231025	23-15752	25-Oct-23	50x	<0.50	0.75 J	<0.26	<0.25	<0.06	<0.75
MW09-20231025	23-15753	25-Oct-23	50x	<0.50	0.61 J	<0.26	<0.25	<0.06	<0.75
QL	50			0.50	0.30	0.26	0.25	0.06	0.75
RL	50			2.0	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 = Reprting 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:
9-Nov-23

S-10118

OnSite Environmental Inc.

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

Laboratory Reference #: 10-305

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:

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
	MW21-20231025	10/25/23	10:05	W	3	Volatile Organic Fatty Acids
	MW19-20231025	10/25/23	10:38	W	3	Volatile Organic Fatty Acids
	MW10-20231025	10/25/23	11:30	W	3	Volatile Organic Fatty Acids
	MW32-20231025	10/25/23	12:20	W	3	Volatile Organic Fatty Acids
	MW09-20231025	10/25/23	12:55	W	3	Volatile Organic Fatty Acids

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	CORE	10/26/23	1600	2.6°C KX0002116 Good Condition wet ice Blue
Received by:	UPS			
Relinquished by:	UPS			
Received by: Leeson Thomas	SIREM	10-27-23	1115	
Relinquished by:				
Received by:				

EIM

COPY

S-10118

OnSite Environmental Inc.

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

Laboratory Reference #: 10-305

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: _____

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
	MW21-20231025	10/25/23	10:05	W	3	Volatile Organic Fatty Acids
	MW19-20231025	10/25/23	10:38	W	3	Volatile Organic Fatty Acids
	MW10-20231025	10/25/23	11:30	W	3	Volatile Organic Fatty Acids
	MW32-20231025	10/25/23	12:20	W	3	Volatile Organic Fatty Acids
	MW09-20231025	10/25/23	12:55	W	3	Volatile Organic Fatty Acids

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	COSE	10/26/23	1600	EIM 2.6°C KX0002116 Good condition wet ice Blue
Received by:	UPS			
Relinquished by:	UPS			
Received by: Leeson Thomas	SIREM	10-27-23	1115	
Relinquished by: Kyra Williams Kyra Williams	SIREM	103023	1600	
Received by: Celina Diory	SIREM	11/1/23	11:15am	2.0°C

Chain of Custody

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

Laboratory Number: 10-305

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	Date Sampled	Time Sampled	Matrix	Number of Containers	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
1	MW33-20231024	10/24/23	1628	H_2O	3	X													
2	MW30-20231024		1520		3	X													
3	MW37-20231024		1430		3	X													
4	MW26-20231024		1628		3	X													
5	MW22-20231024		1517		3	X													
6	MW27-20231025	10/25/23	0845		3	X													
7	MW21-20231025		1005		11	X	X	X	X	X	X	X							
8	MW19-20231025		1038		8		X	X	X	X	X	X							
9	MW10-20231025		1130		11	X	X	X	X	X	X	X							
10	MW32-20231025		1220		11	X	X	X	X	X	X	X							

	Signature	Company	Date	Time
Relinquished		SES	10/25/23	1311
Received		ACHA	10/25/23	1311
Relinquished		ACHA	10/25/23	1506
Received		OSE	10/25/23	1406
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* Ferrous Iron Subcontracted directly to Fremont

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

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

Chain of Custody

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

Company: 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)
- [X] Same Day
- [ ] 1 Day
- [ ] 2 Days
- [ ] 3 Days
- [ ] Standard (7 Days)
- [ ] _____ (other)

Laboratory Number: 10-305

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
11	MW09-20231025	10/25/23	1255	H_2O	11	X	X	X	X	X	X	X							

LCL 10/25/23

	Signature	Company	Date	Time
Relinquished		SoundEarth	10/25/23	1311
Received		ALPHA	10/25/23	1311
Relinquished		ALPHA	10/25/23	1406
Received		OSE	10/25/23	1406
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

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

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: 10-305

Initiated by: AMV

Date Initiated: 10/25/23

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:	6.6
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:

3.7) NO_3 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

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

November 17, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2310-319

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on October 26, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 17, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-319
Project: 0651-002

Case Narrative

Samples were collected on October 26, 2023 and received by the laboratory on October 26, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Date of Report: November 17, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-319
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW05-20231026**					
Laboratory ID:	10-319-01					
Vinyl Chloride	1.7	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	0.72	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	0.35	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Client ID:	**MW28-20231026**					
Laboratory ID:	10-319-02					
Vinyl Chloride	2.3	0.40	EPA 8260D	10-30-23	10-30-23	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	10-30-23	10-30-23	
(cis) 1,2-Dichloroethene	53	0.40	EPA 8260D	10-30-23	10-30-23	
Trichloroethene	28	0.40	EPA 8260D	10-30-23	10-30-23	
Tetrachloroethene	35	0.40	EPA 8260D	10-30-23	10-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**MW35-20231026**					
Laboratory ID:	10-319-03					
Vinyl Chloride	30	2.0	EPA 8260D	10-30-23	10-30-23	
(trans) 1,2-Dichloroethene	3.1	2.0	EPA 8260D	10-30-23	10-30-23	
(cis) 1,2-Dichloroethene	1300	20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	220	2.0	EPA 8260D	10-30-23	10-30-23	
Tetrachloroethene	3600	20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

Date of Report: November 17, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-319
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW31-20231026**					
Laboratory ID:	10-319-04					
Vinyl Chloride	2000	50	EPA 8260D	10-30-23	10-30-23	
(trans) 1,2-Dichloroethene	ND	50	EPA 8260D	10-30-23	10-30-23	
(cis) 1,2-Dichloroethene	6400	50	EPA 8260D	10-30-23	10-30-23	
Trichloroethene	ND	50	EPA 8260D	10-30-23	10-30-23	
Tetrachloroethene	67	50	EPA 8260D	10-30-23	10-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**MW34-20231026**					
Laboratory ID:	10-319-05					
Vinyl Chloride	1.9	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	1.2	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	0.23	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	1.2	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: November 17, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-319
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:	MB1030W2					
Vinyl Chloride	ND	0.20	EPA 8260D	10-30-23	10-30-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-23	10-30-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-30-23	10-30-23	
Trichloroethene	ND	0.20	EPA 8260D	10-30-23	10-30-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-30-23	10-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Laboratory ID:	MB1101W1					
Vinyl Chloride	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

Date of Report: November 17, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-319
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:	SB1030W2									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**11.0**	**11.7**	10.0	10.0	110	117	71-135	6	20	
(trans) 1,2-Dichloroethene	**10.4**	**11.3**	10.0	10.0	104	113	80-125	8	17	
(cis) 1,2-Dichloroethene	**10.4**	**11.5**	10.0	10.0	104	115	80-129	10	17	
Trichloroethene	**10.1**	**10.8**	10.0	10.0	101	108	80-122	7	18	
Tetrachloroethene	**9.40**	**10.1**	10.0	10.0	94	101	80-124	7	18	
Surrogate:										
Dibromofluoromethane					*108*	*109*	*75-127*			
Toluene-d8					*101*	*101*	*80-127*			
4-Bromofluorobenzene					*102*	*102*	*78-125*			
Laboratory ID:	SB1101W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.7**	**10.7**	10.0	10.0	107	107	71-135	0	20	
(trans) 1,2-Dichloroethene	**10.8**	**10.9**	10.0	10.0	108	109	80-125	1	17	
(cis) 1,2-Dichloroethene	**10.8**	**11.0**	10.0	10.0	108	110	80-129	2	17	
Trichloroethene	**10.8**	**11.1**	10.0	10.0	108	111	80-122	3	18	
Tetrachloroethene	**9.89**	**10.3**	10.0	10.0	99	103	80-124	4	18	
Surrogate:										
Dibromofluoromethane					*109*	*103*	*75-127*			
Toluene-d8					*102*	*99*	*80-127*			
4-Bromofluorobenzene					*102*	*104*	*78-125*			

Date of Report: November 17, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-319
Project: 0651-002

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW05-20231026**					
Laboratory ID:	10-319-01					
Methane	**5600**	55	RSK 175	11-1-23	11-1-23	
Ethane	**ND**	0.56	RSK 175	11-1-23	11-1-23	
Ethene	**ND**	0.58	RSK 175	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*89*	*50-150*				
Client ID:	**MW28-20231026**					
Laboratory ID:	10-319-02					
Methane	**430**	5.5	RSK 175	11-1-23	11-1-23	
Ethane	**1.2**	0.56	RSK 175	11-1-23	11-1-23	
Ethene	**11**	0.58	RSK 175	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*125*	*50-150*				
Client ID:	**MW35-20231026**					
Laboratory ID:	10-319-03					
Methane	**16**	0.55	RSK 175	11-1-23	11-1-23	
Ethane	**3.2**	0.56	RSK 175	11-1-23	11-1-23	
Ethene	**5.4**	0.58	RSK 175	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*65*	*50-150*				
Client ID:	**MW31-20231026**					
Laboratory ID:	10-319-04					
Methane	**340**	3.3	RSK 175	11-1-23	11-1-23	
Ethane	**ND**	0.56	RSK 175	11-1-23	11-1-23	
Ethene	**120**	0.58	RSK 175	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*141*	*50-150*				
Client ID:	**MW34-20231026**					
Laboratory ID:	10-319-05					
Methane	**1600**	8.3	RSK 175	11-1-23	11-1-23	
Ethane	**ND**	0.56	RSK 175	11-1-23	11-1-23	
Ethene	**ND**	0.58	RSK 175	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*102*	*50-150*				

Date of Report: November 17, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-319
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:	MB1101W1					
Methane	**ND**	0.55	RSK 175	11-1-23	11-1-23	
Ethane	**ND**	0.56	RSK 175	11-1-23	11-1-23	
Ethene	**ND**	0.58	RSK 175	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*103*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB1101W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**44.9**	**42.1**	44.2	44.2	102	95	75-125	6	25	
Ethane	**83.3**	**78.4**	83.2	83.2	100	94	75-125	6	25	
Ethene	**78.8**	**75.8**	77.7	77.7	101	98	75-125	4	25	
Surrogate:										
1-Butene					*106*	*102*	*50-150*			

Date of Report: November 17, 2023
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Laboratory Reference: 2310-319
Project: 0651-002

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW05-20231026**					
Laboratory ID:	10-319-01					
Total Organic Carbon	**34**	1.0	SM 5310B	11-3-23	11-3-23	
Client ID:	**MW28-20231026**					
Laboratory ID:	10-319-02					
Total Organic Carbon	**6.0**	1.0	SM 5310B	11-3-23	11-3-23	
Client ID:	**MW35-20231026**					
Laboratory ID:	10-319-03					
Total Organic Carbon	**ND**	1.0	SM 5310B	11-3-23	11-3-23	
Client ID:	**MW31-20231026**					
Laboratory ID:	10-319-04					
Total Organic Carbon	**8.7**	1.0	SM 5310B	11-3-23	11-3-23	
Client ID:	**MW34-20231026**					
Laboratory ID:	10-319-05					
Total Organic Carbon	**1.8**	1.0	SM 5310B	11-3-23	11-3-23	

Date of Report: November 17, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-319
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:	MB1103W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	11-3-23	11-3-23	

Matrix: Water
Units: mg/L

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	10-304-02								
	ORIG	DUP							
Total Organic Carbon	**ND**	**ND**	NA	NA	NA	NA	NA	13	
MATRIX SPIKE									
Laboratory ID:	10-304-02								
	MS		MS		MS				
Total Organic Carbon	**10.1**		10.0	ND	101	86-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB1103W1								
	SB		SB		SB				
Total Organic Carbon	**9.38**		10.0	NA	94	90-122	NA	NA	

Date of Report: November 17, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-319
Project: 0651-002

TOTAL METALS
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW05-20231026**					
Laboratory ID:	10-319-01					
Iron	**36000**	560	EPA 6010D	11-1-23	11-1-23	
Manganese	**2800**	11	EPA 6010D	11-1-23	11-1-23	
Client ID:	**MW28-20231026**					
Laboratory ID:	10-319-02					
Iron	**430**	56	EPA 6010D	11-1-23	11-1-23	
Manganese	**240**	11	EPA 6010D	11-1-23	11-1-23	
Client ID:	**MW35-20231026**					
Laboratory ID:	10-319-03					
Iron	**360**	56	EPA 6010D	11-1-23	11-1-23	
Manganese	**42**	11	EPA 6010D	11-1-23	11-1-23	
Client ID:	**MW31-20231026**					
Laboratory ID:	10-319-04					
Iron	**750**	56	EPA 6010D	11-1-23	11-1-23	
Manganese	**130**	11	EPA 6010D	11-1-23	11-1-23	
Client ID:	**MW34-20231026**					
Laboratory ID:	10-319-05					
Iron	**240**	56	EPA 6010D	11-1-23	11-1-23	
Manganese	**140**	11	EPA 6010D	11-1-23	11-1-23	

Date of Report: November 17, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-319
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:	MB1101WM1					
Iron	**ND**	56	EPA 6010D	11-1-23	11-1-23	
Manganese	**ND**	11	EPA 6010D	11-1-23	11-1-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-192-03										
	ORIG	DUP									
Iron	**3620**	**3680**	NA	NA		NA		NA	2	20	
Manganese	**72.4**	**73.1**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	10-192-03										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**24100**	**24800**	22200	22200	3620	**92**	**95**	75-125	3	20	
Manganese	**582**	**589**	556	556	72.4	**92**	**93**	75-125	1	20	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Nov 7 2023
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
MW05-20231026	Water	23-A018927	MIN, NUT
MW28-20231026	Water	23-A018928	MIN, NUT
MW35-20231026	Water	23-A018929	MIN, NUT
MW31-20231026	Water	23-A018930	MIN, NUT
MW34-20231026	Water	23-A018931	MIN, NUT

Your samples were received on Friday, October 27, 2023. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

Aaron Young
Vice President

Project #: 0651-002
SDG #: 2331960

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
SDG Number: 2331960
Project #: 0651-002
All results reported on an as received basis.

Date Received: 10/27/23
Date Reported: 11/ 7/23

AMTEST Identification Number **23-A018927**
Client Identification **MW05-20231026**
Sampling Date **10/26/23, 07:15**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	23.6	mg/l		1	EPA 300.0	EZ	10/27/23
Sulfate	0.93	mg/l		0.1	EPA 300.0	EZ	11/01/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.025	mg/l		0.025	EPA 300.0	EZ	11/01/23

AMTEST Identification Number **23-A018928**
Client Identification **MW28-20231026**
Sampling Date **10/26/23, 10:10**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	88.9	mg/l		0.1	EPA 300.0	EZ	11/01/23
Sulfate	22.0	mg/l		0.5	EPA 300.0	EZ	10/27/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.125	mg/l		0.125	EPA 300.0	EZ	10/27/23

AMTEST Identification Number **23-A018929**
Client Identification **MW35-20231026**
Sampling Date **10/26/23, 12:13**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	12.3	mg/l		0.1	EPA 300.0	EZ	11/01/23
Sulfate	22.0	mg/l		0.1	EPA 300.0	EZ	11/01/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	0.134	mg/l		0.025	EPA 300.0	EZ	10/27/23

AMTEST Identification Number **23-A018930**
Client Identification **MW31-20231026**
Sampling Date **10/26/23, 12:35**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	20.4	mg/l		1	EPA 300.0	EZ	10/27/23
Sulfate	4.60	mg/l		1	EPA 300.0	EZ	10/27/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.25	mg/l		0.25	EPA 300.0	EZ	10/27/23

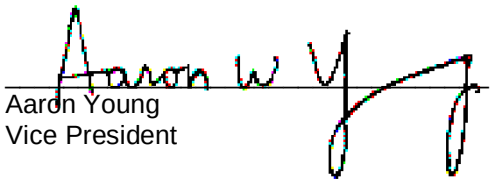
AMTEST Identification Number **23-A018931**
Client Identification **MW34-20231026**
Sampling Date **10/26/23, 13:20**

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Chloride	11.7	mg/l		0.1	EPA 300.0	EZ	11/01/23
Sulfate	45.9	mg/l		0.1	EPA 300.0	EZ	11/01/23

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.025	mg/l		0.025	EPA 300.0	EZ	10/27/23



Aaron Young
Vice President

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample numbers: 23-A018927 to 23-A018931

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
23-A018799	Chloride	mg/l	12.9	12.9	0.00
23-A019090	Chloride	mg/l	1.99	1.99	0.00
23-A018934	Nitrate	mg/l	0.814	0.816	0.25
23-A019090	Nitrate	mg/l	0.316	0.313	0.95
23-A018799	Sulfate	mg/l	9.65	9.93	2.9
23-A019090	Sulfate	mg/l	5.27	5.70	7.8

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
23-A018799	Chloride	mg/l	12.9	32.0	20.0	95.50 %
23-A019090	Chloride	mg/l	1.99	4.13	2.00	107.00 %
23-A018934	Nitrate	mg/l	0.814	2.80	2.00	99.30 %
23-A019090	Nitrate	mg/l	0.316	2.54	2.00	111.20 %
23-A018799	Sulfate	mg/l	9.65	31.6	20.0	109.75 %
23-A019090	Sulfate	mg/l	5.27	7.40	2.00	106.50 %

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Chloride	mg/l	2.00	2.02	101. %
Chloride	mg/l	2.00	2.01	100. %
Chloride	mg/l	2.00	2.19	110. %
Chloride	mg/l	2.00	2.04	102. %
Chloride	mg/l	2.00	2.15	108. %
Chloride	mg/l	2.00	2.17	108. %
Nitrate	mg/l	2.00	2.09	104. %
Nitrate	mg/l	2.00	2.08	104. %
Nitrate	mg/l	2.00	2.27	114. %
Nitrate	mg/l	2.00	2.08	104. %
Nitrate	mg/l	2.00	2.19	110. %
Nitrate	mg/l	2.00	2.20	110. %
Sulfate	mg/l	2.00	2.00	100. %
Sulfate	mg/l	2.00	2.01	100. %
Sulfate	mg/l	2.00	2.12	106. %
Sulfate	mg/l	2.00	2.08	104. %
Sulfate	mg/l	2.00	2.14	107. %
Sulfate	mg/l	2.00	2.14	107. %

QC Summary for sample numbers: 23-A018927 to 23-A018931...

BLANKS

ANALYTE	UNITS	RESULT
Chloride	mg/l	< 0.1
Chloride	mg/l	< 0.1
Chloride	mg/l	< 0.1
Chloride	mg/l	< 0.1
Chloride	mg/l	< 0.1
Chloride	mg/l	< 0.1
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1

OnSite Environmental Inc.

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

Laboratory Reference #: 10-319

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 0651-002

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW05-20231026 18927	10/26/23	7:15	W	1	Sulfate, Chloride, Nitrate EPA 300
	MW28-20231026 18928	10/26/23	10:10	W	1	Sulfate, Chloride, Nitrate EPA 300
	MW35-20231026 18929	10/26/23	12:13	W	1	Sulfate, Chloride, Nitrate EPA 300
	MW31-20231026 18930	10/26/23	12:35	W	1	Sulfate, Chloride, Nitrate EPA 300
	MW34-20231026 18931	10/26/23	13:20	W	1	Sulfate, Chloride, Nitrate EPA 300

	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OnSite Env	10/27/23	720	EIM
Received by:				
Relinquished by:				
Received by: SF	AmTest	10/27/23	720	2.3°C
Relinquished by:				
Received by:				

P.9

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: 2310468

November 02, 2023

Attention David Baumeister:

Fremont Analytical, Inc. received 5 sample(s) on 10/26/2023 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *11/02/2023*

CLIENT: OnSite Environmental Inc
Project: The Hearthstone
Work Order: 2310468

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2310468-001	MW05-20231026	10/26/2023 7:15 AM	10/26/2023 3:45 PM
2310468-002	MW28-20231026	10/26/2023 10:10 AM	10/26/2023 3:45 PM
2310468-003	MW35-20231026	10/26/2023 12:13 PM	10/26/2023 3:45 PM
2310468-004	MW31-20231026	10/26/2023 12:35 PM	10/26/2023 3:45 PM
2310468-005	MW34-20231026	10/26/2023 1:20 PM	10/26/2023 3:45 PM

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

Case Narrative

WO#: **2310468**
Date: **11/2/2023**

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: 2310468-001 **Collection Date:** 10/26/2023 7:15:00 AM
Client Sample ID: **MW05-20231026** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87497		Analyst: FG
Ferrous Iron	44.7	3.75	D	mg/L	25	10/26/2023 4:00:00 PM

Lab ID: 2310468-002 **Collection Date:** 10/26/2023 10:10:00 AM
Client Sample ID: **MW28-20231026** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87497		Analyst: FG
Ferrous Iron	0.263	0.150		mg/L	1	10/26/2023 4:00:00 PM

Lab ID: 2310468-003 **Collection Date:** 10/26/2023 12:13:00 PM
Client Sample ID: **MW35-20231026** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87497		Analyst: FG
Ferrous Iron	ND	0.150		mg/L	1	10/26/2023 4:00:00 PM

Lab ID: 2310468-004 **Collection Date:** 10/26/2023 12:35:00 PM
Client Sample ID: **MW31-20231026** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87497		Analyst: FG
Ferrous Iron	1.20	0.150		mg/L	1	10/26/2023 4:00:00 PM

Analytical Report

Work Order: **2310468**
Date Reported: **11/2/2023**

CLIENT: OnSite Environmental Inc
Project: The Hearthstone

Lab ID: 2310468-005 **Collection Date:** 10/26/2023 1:20:00 PM
Client Sample ID: **MW34-20231026** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R87497		Analyst: FG
Ferrous Iron	0.375	0.150		mg/L	1	10/26/2023 4:00:00 PM

Work Order: 2310468
CLIENT: OnSite Environmental Inc
Project: The Hearthstone

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **2310443-001ADUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **10/26/2023**		RunNo: **87497**			
Client ID: **BATCH**	Batch ID: **R87497**					Analysis Date: **10/26/2023**		SeqNo: **1825650**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	10.6	3.75						10.97	3.51	20	DH

Sample ID: **2310443-001AMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **10/26/2023**		RunNo: **87497**			
Client ID: **BATCH**	Batch ID: **R87497**					Analysis Date: **10/26/2023**		SeqNo: **1825651**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	23.3	3.75	10.00	10.97	123	70	130				DH

Sample ID: **2310443-001AMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **10/26/2023**		RunNo: **87497**			
Client ID: **BATCH**	Batch ID: **R87497**					Analysis Date: **10/26/2023**		SeqNo: **1825652**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	22.9	3.75	10.00	10.97	119	70	130	23.28	1.64	30	DH

Sample ID: **MB-R87497**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **10/26/2023**		RunNo: **87497**			
Client ID: **MBLKW**	Batch ID: **R87497**					Analysis Date: **10/26/2023**		SeqNo: **1825824**			
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-R87497**	SampType: **LCS**			Units: **mg/L**		Prep Date: **10/26/2023**		RunNo: **87497**			
Client ID: **LCSW**	Batch ID: **R87497**					Analysis Date: **10/26/2023**		SeqNo: **1825825**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.393	0.150	0.4000	0	98.3	85	115				

Fremont Analytical
An Alliance Technical Group Company

Sample Log-In Check List

Client Name:	ONSITE	Work Order Number:	2310468
Logged by:	Morgan Wilson	Date Received:	10/26/2023 3:45:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
4.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5.	Were all items received at a temperature of >2°C to 6°C *	Yes ☑	No ☐	NA ☐
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp ºC
Sample	0.9

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

Fremont

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

2310468

Page 1 of 1

Company: SoundEarth Strategies (OnSite David Baumeister)
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:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
	MW05-20231026	10/24/23	0715	H_2O	1						X								
	MW28-20231026		1010		1						X								
	MW35-20231026		1213		1						X								
	MW31-20231026		1235		1						X								
	MW34-20231026		1320		1						X								

LGC 10/26/23

	Signature	Company	Date	Time
Relinquished		Sound Earth	10/24/23	1505
Received		ALPHA	10/26/23	1505
Relinquished		ALPHA	10/26/23	1524
Received		FAI	10/26/23	1545
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

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

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

SiREM
Leading Science · Lasting Solutions

130 Stone Rd. W
Guelph, ON N1G 3Z2
(519) 822-2265

Analytical Results

SiREM File Reference: S-10135

Client: OnSite Environmental Inc.
Client Project Number: 0651-002
Date Samples Received: November 1, 2023
Date Samples Analyzed: November 8, 2023

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
MW05-20231026	23-15837	26-Oct-23	50x	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
MW28-20231026	23-15838	26-Oct-23	50x	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
MW35-20231026	23-15839	26-Oct-23	50x	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
MW31-20231026	23-15840	26-Oct-23	50x	<0.50	2.2	<0.26	<0.25	<0.06	<0.75
MW34-20231026	23-15841	26-Oct-23	50x	<0.50	<0.30	<0.26	<0.25	<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 = Reprting Limit
mg/L = milligram per liter
< = compound analysed 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.
Senior Laboratory Technician

Date: 9-Nov-23

S-10135

OnSite Environmental Inc.

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

Laboratory Reference #: 10-319

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: _____

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
	MW05-20231026	10/26/23	7:15	W	3	Volatile Organic Fatty Acids
	MW28-20231026	10/26/23	10:10	W	3	Volatile Organic Fatty Acids
	MW35-20231026	10/26/23	12:13	W	3	Volatile Organic Fatty Acids
	MW31-20231026	10/26/23	12:35	W	3	Volatile Organic Fatty Acids
	MW34-20231026	10/26/23	13:20	W	3	Volatile Organic Fatty Acids

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	COSE	10/30/23	316 CW	EIM
Received by: Susan Thomas	UPS			
Relinquished by:	UPS			
Received by: Susan Thomas	SiREM	11-1-23	GW	6.0°C KX000216 Good Condition Blue Ice
Relinquished by:				
Received by:				

COPY

S-10135

OnSite Environmental Inc.

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

Laboratory Reference #: 10-319

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: _____

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
	MW05-20231026	10/26/23	7:15	W	3 (1)	Volatile Organic Fatty Acids
	MW28-20231026	10/26/23	10:10	W	3	Volatile Organic Fatty Acids
	MW35-20231026	10/26/23	12:13	W	3	Volatile Organic Fatty Acids
	MW31-20231026	10/26/23	12:35	W	3	Volatile Organic Fatty Acids
	MW34-20231026	10/26/23	13:20	W	3	Volatile Organic Fatty Acids

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	CORE	10/30/23	16CW	EIM
Received by: Susan Thomas	UPS			
Relinquished by:	UPS			
Received by: Susan Thomas	SiREM	11-1-23	GW	6.0°C KC0002116
Relinquished by: KCRACHUTA	SiREM	11-6-23	1600	Good Condition Blue Ice
Received by: Celina Druan	SiREM	7-Nov-2023	3:05pm	1°C

Chain of Custody

Page 1 of 1

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

Laboratory Number: 10-319

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	Date Sampled	Time Sampled	Matrix	Number of Containers	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
1	MW05-20231026	10/26/23	0715	H_2O	11	X	X	X	X	X	X	X							
2	MW28-20231026	↓	1010	↓	11	X	X	X	X	X	X	X							
3	MW35-20231026		1213		11	X	X	X	X	X	X	X							
4	MW31-20231026		1235		11	X	X	X	X	X	X	X							
5	MW34-20231026	↓	1320	↓	11	X	X	X	X	X	X	X							

LGC 10/26/23

	Signature	Company	Date	Time
Relinquished	Linnea Coleman	SoundEarth	10/26/23	1505
Received	L. Isaacson	ACHA	10/26/23	1505
Relinquished	L. Isaacson	ACHA	10/26/23	1557
Received		OSE	10/26/23	1557
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

*- Subbed directly to Fremont.
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

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: 10-319

Initiated by: MV

Date Initiated: 10/26/23

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:	4
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:

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

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

November 2, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2310-320

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on October 26, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 2, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-320
Project: 0651-002

Case Narrative

Samples were collected on October 25 and 26, 2023 and received by the laboratory on October 26, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Date of Report: November 2, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-320
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW02-20231025**					
Laboratory ID:	10-320-01					
Vinyl Chloride	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	1.3	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	1.9	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**MW36-20231025**					
Laboratory ID:	10-320-02					
Vinyl Chloride	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				
Client ID:	**MW03-20231025**					
Laboratory ID:	10-320-03					
Vinyl Chloride	2.3	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	0.21	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	27	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	6.9	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	22	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Date of Report: November 2, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-320
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW29-20231025**					
Laboratory ID:	10-320-04					
Vinyl Chloride	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	0.73	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	2.6	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	6.8	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Client ID:	**MW01-20231025**					
Laboratory ID:	10-320-05					
Vinyl Chloride	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	1.4	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Client ID:	**MW24-20231026**					
Laboratory ID:	10-320-06					
Vinyl Chloride	0.88	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	0.31	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	0.35	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				

Date of Report: November 2, 2023
Samples Submitted: October 26, 2023
Laboratory Reference: 2310-320
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:	MB1101W1					
Vinyl Chloride	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Trichloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Tetrachloroethene	ND	0.20	EPA 8260D	11-1-23	11-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1101W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.7**	**10.7**	10.0	10.0	107	107	71-135	0	20	
(trans) 1,2-Dichloroethene	**10.8**	**10.9**	10.0	10.0	108	109	80-125	1	17	
(cis) 1,2-Dichloroethene	**10.8**	**11.0**	10.0	10.0	108	110	80-129	2	17	
Trichloroethene	**10.8**	**11.1**	10.0	10.0	108	111	80-122	3	18	
Tetrachloroethene	**9.89**	**10.3**	10.0	10.0	99	103	80-124	4	18	
Surrogate:										
Dibromofluoromethane					*109*	*103*	*75-127*			
Toluene-d8					*102*	*99*	*80-127*			
4-Bromofluorobenzene					*102*	*104*	*78-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

Chain of Custody

Page 1 of 1

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

Company: 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: 10-320

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
1	MW02-20231025	10/25/23	1505	H2O	3	X													
2	MW36-20231025		1524		3	X													
3	MW03-20231025		1550		3	X													
4	MW29-20231025		1647		3	X													
5	MW01-20231025		1715		3	X													
6	MW24-20231026	10/26/23	1439		3	X													

LGAC 10/26/23

	Signature	Company	Date	Time
Relinquished		SoundEarth	10/26/23	1505
Received	J. Isaacson	AGPHA	10/26/23	1505
Relinquished	J. Isaacson	AGPHA	10/26/23	1557
Received		OSE	10/26/23	1557
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

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

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: 10-320

Initiated by: MV

Date Initiated: 10/26/23

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:	4
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:

2.4) #1) MW02 - 20231025 on labels
#2) MW36 - 20231025 on labels
#3) MW03 - 20231025 on labels
#4) MW29 - 20231025 on labels
#5) MW01 - 20231025 on labels

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

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

November 17, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2311-125

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on November 14, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 17, 2023
Samples Submitted: November 14, 2023
Laboratory Reference: 2311-125
Project: 0651-002

Case Narrative

Samples were collected on November 13, 2023 and received by the laboratory on November 14, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Date of Report: November 17, 2023
Samples Submitted: November 14, 2023
Laboratory Reference: 2311-125
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW03-20231113**					
Laboratory ID:	11-125-01					
Vinyl Chloride	1.6	0.20	EPA 8260D	11-16-23	11-16-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-16-23	11-16-23	
(cis) 1,2-Dichloroethene	21	0.20	EPA 8260D	11-16-23	11-16-23	
Trichloroethene	4.1	0.20	EPA 8260D	11-16-23	11-16-23	
Tetrachloroethene	14	0.20	EPA 8260D	11-16-23	11-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*75-127*				
Toluene-d8	*86*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Date of Report: November 17, 2023
Samples Submitted: November 14, 2023
Laboratory Reference: 2311-125
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:	MB1116W1					
Vinyl Chloride	ND	0.20	EPA 8260D	11-16-23	11-16-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-16-23	11-16-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-16-23	11-16-23	
Trichloroethene	ND	0.20	EPA 8260D	11-16-23	11-16-23	
Tetrachloroethene	ND	0.20	EPA 8260D	11-16-23	11-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*84*	*75-127*				
Toluene-d8	*87*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1116W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.09**	**8.39**	10.0	10.0	91	84	71-135	8	20	
(trans) 1,2-Dichloroethene	**8.40**	**8.27**	10.0	10.0	84	83	80-125	2	17	
(cis) 1,2-Dichloroethene	**8.97**	**8.69**	10.0	10.0	90	87	80-129	3	17	
Trichloroethene	**8.72**	**8.58**	10.0	10.0	87	86	80-122	2	18	
Tetrachloroethene	**10.4**	**10.5**	10.0	10.0	104	105	80-124	1	18	
Surrogate:										
Dibromofluoromethane					*87*	*87*	*75-127*			
Toluene-d8					*90*	*89*	*80-127*			
4-Bromofluorobenzene					*108*	*109*	*78-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

Chain of Custody

Page 1 of 1

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

Company: 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: 11-125

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
1	MW03-20231113	11/13/23	1057	H2O	3	X													

LAC 11/13/23

	Signature	Company	Date	Time
Relinquished		SES	11/14/23	0915
Received		OSE	11/14/23	0915
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

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

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: 11-125

Initiated by: KP

Date Initiated: 11/14/23

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:	3.3°
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:

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

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

November 20, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2311-195

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on November 17, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 20, 2023
Samples Submitted: November 17, 2023
Laboratory Reference: 2311-195
Project: 0651-002

Case Narrative

Samples were collected on November 17, 2023 and received by the laboratory on November 17, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Date of Report: November 20, 2023
Samples Submitted: November 17, 2023
Laboratory Reference: 2311-195
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IW34-20231117**					
Laboratory ID:	11-195-01					
Vinyl Chloride	15000	200	EPA 8260D	11-17-23	11-17-23	
(trans) 1,2-Dichloroethene	450	200	EPA 8260D	11-17-23	11-17-23	
(cis) 1,2-Dichloroethene	4400	200	EPA 8260D	11-17-23	11-17-23	
Trichloroethene	ND	200	EPA 8260D	11-17-23	11-17-23	
Tetrachloroethene	ND	200	EPA 8260D	11-17-23	11-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*83*	*75-127*				
Toluene-d8	*86*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Date of Report: November 20, 2023
Samples Submitted: November 17, 2023
Laboratory Reference: 2311-195
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:	MB1117W1					
Vinyl Chloride	ND	0.20	EPA 8260D	11-17-23	11-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-17-23	11-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-17-23	11-17-23	
Trichloroethene	ND	0.20	EPA 8260D	11-17-23	11-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	11-17-23	11-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*84*	*75-127*				
Toluene-d8	*87*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Date of Report: November 20, 2023
Samples Submitted: November 17, 2023
Laboratory Reference: 2311-195
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:	SB1117W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**8.67**	**8.30**	10.0	10.0	87	83	71-135	4	20	
(trans) 1,2-Dichloroethene	**8.21**	**8.13**	10.0	10.0	82	81	80-125	1	17	
(cis) 1,2-Dichloroethene	**8.61**	**8.75**	10.0	10.0	86	88	80-129	2	17	
Trichloroethene	**8.53**	**8.64**	10.0	10.0	85	86	80-122	1	18	
Tetrachloroethene	**10.3**	**10.2**	10.0	10.0	103	102	80-124	1	18	
Surrogate:										
Dibromofluoromethane					*84*	*84*	*75-127*			
Toluene-d8					*86*	*88*	*80-127*			
4-Bromofluorobenzene					*108*	*106*	*78-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

Chain of Custody

Page 1 of 1

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

Company: 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: 11-195

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
1	IW34-20231117	11/17/23	1107	H2O	3	X																				

11/17/23 LGC

	Signature	Company	Date	Time
Relinquished		SoundEarth	11/17/23	1245
Received		OSE	11/17/23	1245
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

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

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

Initiated by: NB

OnSite Project Number: 11-195

Date Initiated: 11/17/23

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:	5
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:

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

Radon Analysis (EPA Method GS: Grab Sample/Scintillation Cell counting)

For SoundEarth Strategies, Inc.

Client Project Number: Plastic Sales & Service

Samplers: Jonathan Loeffler
Sample Dates: 12/04/23
Sample containers: ESS Tedlar bags
Environmental Conditions: Elevation (ft) Temp (°C)
Site: Plastics Sales & Service — Site 179 20 (assumed T)
6870 Woodlawn Ave., Seattle, WA — Lab 984 20
Analyst: Doug Hammond — Pressure Factor (Site/Lab) 1.03 adjust for each sample based on T
Phone: 310-490-7896 — Time Zone adjustment: add to decay time 0 hours — Collect (PST) Run (PST)
email: dhammond90290@gmail.com

Gas Sample Summary

	ID	Collection Date	Collection time (PST)	Analysis Date	Analysis time (PST)	Vol run (cc)	Conc. pCi/L	±1 sig pCi/L	Lab Duplicates mean pCi/L	Lab Duplicates ±1ssd pCi/L	Notes
Received 12/05/23											
1	IA02R-20231204	12/4/23	10:35	12/5/23	11:48	60	0.13	0.07			
2	IA03R-20231204	12/4/23	10:45	12/5/23	11:51	60	0.25	0.08			
3	OA01R-20231204	12/4/23	10:55	12/5/23	11:54	60	0.04	0.05			
4	IA01R-20231204	12/4/23	11:05	12/5/23	11:46	60	0.20	0.07			
5	SS01R-20231204	12/4/23	13:40	12/5/23	11:36	40	194	11			
6	SS02R-20231204	12/4/23	15:23	12/5/23	11:33	40	220	12	223	3	
	Lab duplicate	12/4/23	15:23	12/5/23	11:31	40	225	12			

Uncertainty given in pCi/liter is based on counting statistics and uncertainty for cell calibration and volume of ±5%.
The Lower Limit of Detection for Rn (95% confidence level as recommended by EPA 402-R-95-012, Oct. 97) is 0.14 pCi/liter.
Results are reported based on standardization with NIST-traceable radon sources.
Results corrected to in situ pressure and assumed T of 20°C based on P/Po = exp(-3.56e-5*(elevation - lab elevation))(273+Lab T)/(273+Site T)
These results are for application of naturally-occurring radon as a tracer of soil vapor intrusion, but are not intended for evaluation of radon hazards.
If observed dpm is less than the average cell background for that cell, a value of 0.001 dpm is assigned.
Note Details: None

Raw Data, Calculation factors, and Analytical Details

	Sample ID	Collection Date	Collection Time (PST)	Analysis Date	Analysis Time (PST)	Count in cell/ch	He eff	Air/He eff	Vol run (cc)	Press factor	obs dpm	sig dpm	Decay T (hours)	Decay factor	Concentration dpm/liter	Concentration pCi/liter	count stats pCi/liter ±1 sig	Notes
Received 12/05/23																		
1	IA02R-20231204	12/4/23	10:35	12/5/23	11:48	79/T1	0.849	0.96	60	1.03	0.011	0.006	25.2	1.210	0.28	0.13	0.07	
2	IA03R-20231204	12/4/23	10:45	12/5/23	11:51	80/T1	0.872	0.96	60	1.03	0.022	0.007	25.1	1.209	0.54	0.25	0.08	
3	OA01R-20231204	12/4/23	10:55	12/5/23	11:54	71/T3	0.905	0.96	60	1.03	0.004	0.005	25.0	1.208	0.10	0.04	0.05	
4	IA01R-20231204	12/4/23	11:05	12/5/23	11:46	73/L1	0.890	0.96	60	1.03	0.018	0.006	24.7	1.205	0.44	0.20	0.07	
5	SS01R-20231204	12/4/23	13:40	12/5/23	11:36	92/T2	0.870	0.98	40	1.03	12.11	0.28	21.9	1.180	431	194	4	
6	SS02R-20231204	12/4/23	15:23	12/5/23	11:33	94/T4	0.885	0.98	40	1.03	14.16	0.30	20.2	1.165	489	220	5	
	Lab duplicate	12/4/23	15:23	12/5/23	11:31	Z12/R2	0.820	0.98	40	1.03	13.41	0.30	20.1	1.164	500	225	5	

Decay correctiions based on Rn decay constant of 0.1813 per day
Radon Conc = {(0.4504)(1000)(obs dpm)(decay factor)(Press factor)}/{(cc used)(He eff)(Air/He)}
Conversion from dpm based on 0.4504 pCi/dpm (in pCi/liter)
Blanks are negligible.

Definitions:

Cell/ch:	Counting cell and channel used	sig dpm	uncertainty (± 1 sig) in dpm based on counting statistics
He eff:	Cell and counter efficiency using helium matrix	Decay T:	time elapsed from sampling to analysis
Air/He:	Correction for matrix counting gas density	Decay factor:	Correction factor for decay from collection to analysis
Sample vol:	Volume analyzed at lab pressure (cc)	dpm/liter:	Radon concentration in disintigrations per minute per liter of sample
Press factor:	Correction to in situ pressure and 20°C based on collection altitude & lab P, T	pCi/liter:	Radon concentration in picoCuries per liter
obs dpm:	observed radon activity (disintigrations per minute) when analyzed	count stats:	uncertainty in observed radon based on counting statistics

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 Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 11, 2023

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 5, 2023 from the SOU_ 0651-002_ 20231205, F&BI 312051 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
SOU1211R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 5, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_ 0651-002_ 20231205, F&BI 312051 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
312051 -01	IA02-20231204
312051 -02	IA03-20231204
312051 -03	IA01-20231204
312051 -04	OA01-20231204

All quality control requirements were acceptable.

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	IA02-20231204	Client:	SoundEarth Strategies
Date Received:	12/05/23	Project:	SOU_ 0651-002_ 20231205
Date Collected:	12/04/23	Lab ID:	312051-01
Date Analyzed:	12/06/23	Data File:	120616.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	90	70	130

Compounds:	Concentration 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	0.25	0.046
Tetrachloroethene	<6.8	<1

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	IA03-20231204	Client:	SoundEarth Strategies
Date Received:	12/05/23	Project:	SOU_ 0651-002_ 20231205
Date Collected:	12/04/23	Lab ID:	312051-02
Date Analyzed:	12/06/23	Data File:	120615.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	90	70	130

Compounds:	Concentration 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	0.25	0.047
Tetrachloroethene	<6.8	<1

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	IA01-20231204	Client:	SoundEarth Strategies
Date Received:	12/05/23	Project:	SOU_ 0651-002_ 20231205
Date Collected:	12/04/23	Lab ID:	312051-03
Date Analyzed:	12/06/23	Data File:	120614.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	90	70	130

Compounds:	Concentration 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	0.22	0.041
Tetrachloroethene	<6.8	<1

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	OA01-20231204	Client:	SoundEarth Strategies
Date Received:	12/05/23	Project:	SOU_ 0651-002_ 20231205
Date Collected:	12/04/23	Lab ID:	312051-04
Date Analyzed:	12/06/23	Data File:	120613.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration 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

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_ 0651-002_ 20231205
Date Collected:	Not Applicable	Lab ID:	03-2786 MB
Date Analyzed:	12/06/23	Data File:	120612.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	87	70	130

Compounds:	Concentration 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

Date of Report: 12/11/23
Date Received: 12/05/23
Project: SOU_ 0651-002_ 20231205, F&BI 312051

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 312050-01 1/5.5 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Vinyl chloride	ug/m3	<1.4	<1.4	nm
trans-1,2-Dichloroethene	ug/m3	<2.2	<2.2	nm
cis-1,2-Dichloroethene	ug/m3	<2.2	<2.2	nm
Trichloroethene	ug/m3	<0.59	<0.59	nm
Tetrachloroethene	ug/m3	<37	<37	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ug/m3	35	117	70-130
trans-1,2-Dichloroethene	ug/m3	54	98	70-130
cis-1,2-Dichloroethene	ug/m3	54	94	70-130
Trichloroethene	ug/m3	73	119	70-130
Tetrachloroethene	ug/m3	92	117	70-130

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 below the standard reporting limit. 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.

312051

SAMPLE CHAIN OF CUSTODY

12/05/23 — Page # 1 of 1

Send Report to Tom Cammarata, Clare Tochilin

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. Plastics Sales & Service 0651-002

PO #

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	ANALYSES REQUESTED: PCE, TCE, cis- and trans-1,2-DCE, Vinyl Chloride	ANALYSES REQUESTED: ~~TO-15~~ JJ	ANALYSES REQUESTED:	ANALYSES REQUESTED: Notes
IA02-20231204	01	37214	15212	12/4/23	-28	0808	-5.5	1555	X			
IA03-20231204	02	20542	15215		-30	0853	-7	1658	X			
IA01-20231204	03	37203	06606		-30	0928	-8.5	1705	X			
OA01-20231204	04	40703	06603		-30	0934	-8	1710	X			

Samples received at 16 °C

JTF 12/4/23

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JONATHAN LOEFFLER	SOUNDEARTH	12/5/23	0950
Received by:	ANH PHAN	FSH	12/05/23	09:50
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

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 Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 14, 2023

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 5, 2023 from the SOU_0651-002_ 20231205, F&BI 312050 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
SOU1214R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 5, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651-002_ 20231205, F&BI 312050 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
312050 -01	SS01-20231204
312050 -02	SS02-20231204

All quality control requirements were acceptable.

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SS01-20231204	Client:	SoundEarth Strategies
Date Received:	12/05/23	Project:	SOU_0651-002_ 20231205
Date Collected:	12/04/23	Lab ID:	312050-01 1/5.5
Date Analyzed:	12/06/23	Data File:	120618.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	89	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<1.4	<0.55
trans-1,2-Dichloroethene	<2.2	<0.55
cis-1,2-Dichloroethene	<2.2	<0.55
Trichloroethene	<0.59	<0.11
Tetrachloroethene	<37	<5.5

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SS02-20231204	Client:	SoundEarth Strategies
Date Received:	12/05/23	Project:	SOU_0651-002_ 20231205
Date Collected:	12/04/23	Lab ID:	312050-02 1/5.5
Date Analyzed:	12/06/23	Data File:	120620.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	91	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<1.4	<0.55
trans-1,2-Dichloroethene	<2.2	<0.55
cis-1,2-Dichloroethene	<2.2	<0.55
Trichloroethene	<0.59	<0.11
Tetrachloroethene	<37	<5.5

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0651-002_ 20231205
Date Collected:	Not Applicable	Lab ID:	03-2786 MB
Date Analyzed:	12/06/23	Data File:	120612.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	87	70	130

Compounds:	Concentration 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

Date of Report: 12/14/23
Date Received: 12/05/23
Project: SOU_0651-002_ 20231205, F&BI 312050
Date Extracted: 12/14/23
Date Analyzed: 12/14/23

RESULTS FROM THE ANALYSIS OF AIR SAMPLES FOR HELIUM USING METHOD ASTM D1946

Results Reported as % Helium

Sample ID Laboratory ID	Helium
SS01-20231204 312050-01	<0.6
SS02-20231204 312050-02	<0.6
Method Blank 03-2895 MB	<0.6

Date of Report: 12/14/23
Date Received: 12/05/23
Project: SOU_0651-002_ 20231205, F&BI 312050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 312050-01 1/5.5 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Vinyl chloride	ug/m3	<1.4	<1.4	nm
trans-1,2-Dichloroethene	ug/m3	<2.2	<2.2	nm
cis-1,2-Dichloroethene	ug/m3	<2.2	<2.2	nm
Trichloroethene	ug/m3	<0.59	<0.59	nm
Tetrachloroethene	ug/m3	<37	<37	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ug/m3	35	117	70-130
trans-1,2-Dichloroethene	ug/m3	54	98	70-130
cis-1,2-Dichloroethene	ug/m3	54	94	70-130
Trichloroethene	ug/m3	73	119	70-130
Tetrachloroethene	ug/m3	92	117	70-130

Date of Report: 12/14/23
Date Received: 12/05/23
Project: SOU_0651-002_ 20231205, F&BI 312050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR HELIUM USING METHOD ASTM D1946

Laboratory Code: 312050-02 (Duplicate)

Analyte	Sample Result (%)	Duplicate Result (%)	Relative Percent Difference	Acceptance Criteria
Helium	<0.6	<0.6	nm	0-20

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 below the standard reporting limit. 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.

312050

SAMPLE CHAIN OF CUSTODY

12/05/23

Send Report to Tom Cammarata, Clare Tochilin

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. 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: PCE, TCE, cis- and trans-1,2-DCE, Vinyl Chloride	ANALYSES REQUESTED: Helium	ANALYSES REQUESTED	ANALYSES REQUESTED: Notes
SS01-20231204	01	8536	240	12/4/23	-30	1332	-6	1338	X	X		
SS02-20231204	02	3671	220	12/4/23	-30	1513	-5	1519	X	X		

12/4/23

Samples received at 16 °C

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 LOEFFLER	SOUNDEARTH	12/5/23	0950
Received by:	ANHPHAN	FSB	12/05/23	09:50
Relinquished by:				
Received by:				

Sub-Slab Drainage System

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

December 4, 2023

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

Re: Analytical Data for Project 0651-002
Laboratory Reference No. 2311-283

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on November 29, 2023.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: December 4, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-283
Project: 0651-002

Case Narrative

Samples were collected on November 28, 2023 and received by the laboratory on November 29, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

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

Date of Report: December 4, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-283
Project: 0651-002

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0651-SUMP-20231128**					
Laboratory ID:	11-283-01					
Vinyl Chloride	ND	0.20	EPA 8260D	12-1-23	12-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-1-23	12-1-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-1-23	12-1-23	
Trichloroethene	ND	0.20	EPA 8260D	12-1-23	12-1-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-1-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*91*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Date of Report: December 4, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-283
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:	MB1201W1					
Vinyl Chloride	ND	0.20	EPA 8260D	12-1-23	12-1-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-1-23	12-1-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-1-23	12-1-23	
Trichloroethene	ND	0.20	EPA 8260D	12-1-23	12-1-23	
Tetrachloroethene	ND	0.20	EPA 8260D	12-1-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*90*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1201W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.5**	**10.2**	10.0	10.0	105	102	71-135	3	20	
(trans) 1,2-Dichloroethene	**9.62**	**9.65**	10.0	10.0	96	97	80-125	0	17	
(cis) 1,2-Dichloroethene	**9.97**	**9.83**	10.0	10.0	100	98	80-129	1	17	
Trichloroethene	**10.3**	**10.1**	10.0	10.0	103	101	80-122	2	18	
Tetrachloroethene	**10.3**	**9.54**	10.0	10.0	103	95	80-124	8	18	
Surrogate:										
Dibromofluoromethane					*93*	*93*	*75-127*			
Toluene-d8					*91*	*93*	*80-127*			
4-Bromofluorobenzene					*103*	*103*	*78-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

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

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

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

Z -

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

Chain of Custody

Page 1 of 1

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

Company: 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: 11-283

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	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
1	0651-SUMP-20231128	11/28/23	1325	H_2O	3	X													

	Signature	Company	Date	Time
Relinquished	Brandon Sutton	SoundEarth	11/1/23	
Received	Nichelle Byrne	OSE	11/29/23	1350
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

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

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

Initiated by: NB

OnSite Project Number: 11-283

Date Initiated: 11/29/23

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:	5.4
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:

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