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May 7, 2024

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9830 Colonnade Boulevard, Suite 600
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Mr. Frank Jakus
Ponte Gadea Seattle LLC
270 Biscayne Boulevard Way, Suite 201
Miami, Florida 33131-2123

SUBJECT: 2023 GROUNDWATER MONITORING REPORT
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington
Cleanup Site ID No. 11690
Project Number: 0731-004-08

Dear Messrs. Mosis and Jakus:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this report to present the results of the 2023 groundwater monitoring events that were conducted at the Troy Laundry Seattle Site (Site). The Site encompasses the property located at 399 Fairview Avenue North and 300 Boren Avenue North in Seattle, Washington (collectively, the Property), as well as the adjacent rights-of-way (ROWs) located north of the Property (Harrison Street), west of the Property (Boren Avenue North), and south of the Property (Thomas Street). The Site also extends onto the adjacent property to the south, known as the former Seattle Times Site, located at 1120 John Street (Cleanup Site ID 14494). The Site location is shown on Figure 1.

The groundwater monitoring events summarized below were conducted, and this report has been prepared, pursuant to Exhibit A (Scope of Work and Schedule) to the Prospective Purchaser Consent Decree (PPCD) No. 19-2-07344-6 SEA entered into by and between the Washington State Department of Ecology (Ecology) and Ponte Gadea Seattle LLC. Per Exhibit A of the PPCD, a Statistical Trend Analysis Report is required to be submitted in the first quarter of 2024 following receipt of 2023 groundwater monitoring and sampling data. This 2023 Groundwater Monitoring Report incorporates the statistical trend analysis in lieu of a separate Statistical Trend Analysis Report.

The purpose of this report is to summarize compliance groundwater monitoring work completed during the calendar year 2023, present the results of groundwater elevation measurements and laboratory analytical results, provide statistical analysis of chlorinated volatile organic compound (CVOC) concentrations in the groundwater over time, and provide analysis of overall plume stability.

2023 GROUNDWATER MONITORING EVENTS

The 2023 groundwater monitoring events were conducted during the second and fourth quarters (June and December, respectively) of 2023 to assess the groundwater quality, flow direction, and gradient of

groundwater beneath the Site and to evaluate the effectiveness of the groundwater treatment program that has been implemented as part of SoundEarth's Interim Action Plan dated August 21, 2013, which was approved by Ecology on October 10, 2013 (Interim Action Plan; SoundEarth 2013).

The 2023 monitoring events included groundwater monitoring and sampling from all monitoring wells in the compliance well network as set forth in Exhibit A of the PPCD, as well as additional Site wells added to monitoring well network after the PPCD was entered. The current monitoring well network at the Site includes the following monitoring wells:

- On Property Monitoring and Injections Wells: MW17 through MW25, IW04, IW06, IW50, IW61, and IW91
- Harrison Street ROW Monitoring Wells: MW01, MW26, MW32¹, and MW33¹
- Boren Avenue North ROW Monitoring Wells: MW04, MW07, MW13, MW27, and MW31¹
- Thomas Street ROW Monitoring Wells: MW28
- Terry Avenue North ROW Monitoring Well: MW34²
- Former Seattle Times Site Monitoring Wells: MW29R³ and MW35³

Current and historical groundwater elevations and sample analytical results are presented in Tables 1 through 3.

FIELD ACTIVITIES

From June 20 through 23 and December 4 through 8, 2023, SoundEarth performed groundwater monitoring and sampling at monitoring wells MW01, MW04, MW07, MW13, MW18, MW19, MW21, MW22, MW24 through MW28, and MW31 through MW34 and injection wells IW04, IW06, IW50, and IW61. Sampling of monitoring wells MW29R and MW35, located on the former Seattle Times Site, was performed on August 24, 2023, and January 5, 2024.

Upon arrival at the Site and prior to groundwater sampling, SoundEarth personnel opened the monitoring wells to measure the groundwater level in each monitoring well. The groundwater level in each of the monitoring wells was permitted to equilibrate with atmospheric pressure for a minimum of 1 hour before groundwater level measurements were collected. Groundwater levels were measured relative to the top of well casing to an accuracy of 0.01 feet using an electronic water level meter.

Groundwater samples were collected from wells in the groundwater monitoring network in accordance with the US Environmental Protection Agency (EPA) *Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures* dated April 1996 (Puls and Barcelona 1996). Purging and sampling of each monitoring well was performed using a bladder pump (monitoring wells MW01, MW04, MW07, MW13, MW26 through MW28,

¹Monitoring wells MW31 through MW33 were installed in September 2019 as part of the supplemental remedial investigation, as described in SoundEarth's *Supplemental Remedial Investigation Work Plan, Troy Laundry Site, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington, Ecology Facility ID: 19135499* dated March 20, 2019 (SoundEarth 2019). These wells are not sampled under the PPCD but became part of the Site monitoring well network, and results were presented in connection with the progress reports to ensure that all data associated with the Site are readily available to Ecology.

²Monitoring well MW34 is a replacement for monitoring well MW15, which was damaged during construction activities in 2021 and was replaced in October 2021. This monitoring well is not sampled under the PPCD but it is part of the Site monitoring well network, and results will be presented in connection with the progress reports to ensure that all data associated with the Site are readily available to Ecology.

³Groundwater monitoring wells MW29R and MW35 were installed on the former Seattle Times Property in April 2023.

MW29R, and MW31 through MW35) or a peristaltic pump (monitoring wells MW18, MW19, MW21, MW22, MW24, and MW25 and injection wells IW04, IW06, IW50, and IW61) with dedicated polyethylene tubing at a maximum flow rate of 250 milliliters per minute. The tubing intake was placed approximately 2 to 3 feet below the surface of the groundwater or mid-screen in each sampled monitoring well. During purging, water quality was monitored using a YSI-brand water quality meter equipped with a flow-through cell. The water quality parameters that were monitored and recorded included temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential. Each monitoring well was purged until, at a minimum, the subset of pH, specific conductance, and dissolved oxygen or turbidity had stabilized over at least three successive readings. A field duplicate sample was collected from monitoring well MW25 during the second and fourth quarters for quality assurance/quality control (QA/QC) purposes.

Following purging, 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 container was labeled with a unique sample identification number, placed on ice in a cooler, and transported to one or more of the following testing laboratories under standard chain-of-custody protocols for laboratory analysis: Friedman & Bruya, Inc. of Seattle, Washington; Fremont Analytical of Seattle, Washington; or SiREM of Knoxville, Tennessee.

The groundwater samples were submitted for analysis of one or more of the following:

- CVOCs, including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride (VC) by EPA Method 8260C
- Gasoline-range petroleum hydrocarbons (GRPH) by Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Gx
- Diesel-range petroleum hydrocarbons (DRPH) and oil-range petroleum hydrocarbons (ORPH) by Method NWTPH-Dx

Groundwater samples collected from monitoring wells MW04, MW07, MW18, MW19, MW21, MW22, MW24 through MW26, and MW28 and injection wells IW04, IW50, and IW61 were analyzed for one or more of the following natural attenuation parameters:

- Methane, ethane, and ethene by Method RSK 175
- Sulfate, nitrate, and alkalinity by Method SM1845/SM2320B
- Total iron and manganese by EPA Method 200.8
- Ferrous iron by Method SM3500
- Total organic carbon by EPA Method 415.1
- Volatile fatty acids by EPA Methods 300.0 and 300.0 Modified

All groundwater sampling data, including results of natural attenuation parameters, will be uploaded to and available from Ecology's Environmental Information Management system database.

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.

GROUNDWATER CLEANUP AND PROPOSED REMEDIATION LEVELS

Groundwater cleanup levels and proposed remediation levels for the Site are presented in Table A:

Table A
Groundwater Remediation Levels and Cleanup Levels for the Site

CVOC	Commercial Worker Groundwater Remediation Level at the Property (µg/L)⁽¹⁾	Roadway Excavation Worker Groundwater Remediation Level in ROWs (µg/L)⁽¹⁾	Groundwater Cleanup Level (µg/L)
PCE	120	760	5 ⁽²⁾
TCE	12	40	5 ⁽²⁾
cis-1,2-DCE	1,600	10,000	16 ⁽³⁾
VC	1.6	9.9	0.2 ⁽²⁾
GRPH ⁽⁴⁾	Not Applicable	Not Applicable	800/1,000 ⁽⁵⁾
DRPH/ORPH ⁽⁴⁾	Not Applicable	Not Applicable	500

µg/L = micrograms per liter

(1) Table values in Cleanup Levels and Risk Calculation (CLARC), Ecology’s Guidance for Evaluating Vapor Intrusion in Washington State: Investigation and Remedial Action dated 2009, revised 2022 (Ecology 2009), and Ecology’s South Lake Union Group Memorandum (Ecology 2022).

(2) MTCA Method A, WAC 173-340-720 and table values in CLARC.

(3) MTCA Method B, WAC 173-340-720 and table values in CLARC.

(4) GRPH, DRPH, and ORPH are not contaminants of concern for the Site.

(5) 1,000 µg/L when benzene is not present and 800 µg/L when benzene is present.

GROUNDWATER MONITORING AND SAMPLING RESULTS

Groundwater levels and analytical results from the groundwater monitoring and supplemental sampling events are summarized below and presented in Tables 1 through 6. Groundwater elevation contour maps for the second and fourth quarter 2023 sampling events are presented on Figures 2 and 3. Groundwater analytical results for CVOCs are presented on Figure 4.

Second Quarter 2023

Groundwater elevations measured in June 2023 ranged from 15.14 feet North American Vertical Datum of 1988 (NAVD88) at monitoring well MW23 to 17.66 feet NAVD88 at monitoring well MW34. Groundwater elevations were contoured using the water level measurements collected on June 20, 2023 (Figure 2; Table 1). The groundwater contours for the second quarter 2023 monitoring event indicated that groundwater at the Site flowed generally to the southeast with a hydraulic gradient of 0.0007 feet per foot.

Laboratory analytical results from the second quarter 2023 monitoring event were compared to groundwater cleanup and remediation levels for groundwater presented in Table A, as applicable, and are summarized below (Figures 5 and 6; Tables 2 and 3):

- PCE was detected at a concentration less than remediation levels but exceeding the groundwater cleanup level in the groundwater sample collected from monitoring well MW29R, located on the former Seattle Times Site. PCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup and remediation levels.

- TCE was detected at concentrations less than remediation levels but exceeding the groundwater cleanup level in groundwater samples collected from monitoring wells MW04, MW07, and MW27, located in the Boren Avenue North ROW; monitoring well MW26, located in the Harrison Street ROW; and monitoring well MW29R, located on the former Seattle Times Site. TCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup level and remediation levels.
- Cis-1,2-DCE was detected at concentrations less than remediation levels but exceeding the groundwater cleanup level in groundwater samples collected from on-Property monitoring well MW22; on-Property injection wells IW50 and IW61; and monitoring well MW29R, located on the former Seattle Times Site. Cis-1,2-DCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup level and remediation levels.
- VC was detected at concentrations exceeding the groundwater cleanup level in groundwater samples collected from on-Property monitoring wells MW18, MW19, MW21, MW22, MW24, and MW25 and injection wells IW04, IW50, and IW61. VC was detected at concentrations exceeding the commercial worker groundwater remediation level at the Property in groundwater samples collected from on-Property monitoring well MW21 and injection wells IW50 and IW61. VC concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup and remediation levels.
- Trans-1,2-DCE was detected at concentrations below the laboratory reporting limit in the groundwater samples collected from all sampled wells.
- DRPH and/or ORPH were detected at concentrations exceeding groundwater cleanup levels in groundwater samples collected from on-Property monitoring wells MW21 and MW22. These results were flagged by the laboratory as having a chromatographic pattern that did not match the fuel standard used for quantification. This finding was likely due to the presence of EOS PRO solution (a food-grade oil-water emulsion) in the samples, which originated from the April and May 2016 injection event. The reported concentrations are not considered reflective of actual groundwater conditions at the Property. DRPH and ORPH were detected at concentrations below the laboratory reporting limit and/or groundwater cleanup level in groundwater samples collected from monitoring wells MW13 and MW28.
- GRPH was detected at concentrations below the laboratory reporting limit and/or groundwater cleanup level in groundwater samples collected from monitoring wells MW13, MW21, MW22, and MW28.

Fourth Quarter 2023

Groundwater elevations measured in December 2023 ranged from 15.29 feet NAVD88 at injection well MW24 to 17.55 feet NAVD88 at monitoring well MW34. Groundwater elevations were contoured using the water level measurements collected on December 4, 2023 (Figure 3; Table 1). The groundwater contours indicated that groundwater at the Site flowed generally to the southeast with a hydraulic gradient of 0.0048 feet per foot.

Laboratory analytical results from the fourth quarter 2023 monitoring event were compared to groundwater cleanup and remediation levels for groundwater presented in Table A, as applicable, and are summarized below (Figures 7 and 8; Tables 2 and 3):

- PCE was detected at a concentration less than remediation levels but exceeding the MTCA groundwater cleanup level in the groundwater samples collected from on-Property injection well IW50; monitoring well MW13 located in the Boren Avenue North ROW; and monitoring well MW29R, located on the former Seattle Times Site. PCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup and remediation levels.
- TCE was detected at concentrations less than remediation levels but exceeding the groundwater cleanup level in groundwater samples collected from on-Property monitoring well MW25; monitoring well MW04, located in the Boren Avenue North ROW; monitoring well MW26, located in the Harrison Street ROW; and monitoring well MW34, located in the Terry Avenue North ROW. TCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup and remediation levels.
- Cis-1,2-DCE was detected at concentrations less than remediation levels but exceeding the groundwater cleanup level in the groundwater samples collected from on-Property monitoring well MW22 and on-Property injection wells IW50 and IW61. Cis-1,2-DCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup and remediation levels.
- VC was detected at concentrations exceeding the groundwater cleanup level in groundwater samples collected from on-Property monitoring wells MW18, MW19, MW21, MW22, MW24, and MW25 and on-Property injection wells IW50 and IW61. VC was detected at concentrations exceeding the commercial worker groundwater remediation level at the Property in groundwater samples collected from on-Property monitoring wells MW19, MW21, and MW23 through MW25 and injection wells IW50 and IW61. VC concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup and remediation levels.
- Trans-1,2-DCE was detected at concentrations below the laboratory reporting limit in groundwater samples collected from all sampled wells.
- DRPH and/or ORPH were detected at concentrations exceeding groundwater cleanup levels in groundwater samples collected from on-Property monitoring wells MW21 and MW22. These results were flagged by the laboratory as having a chromatographic pattern that did not match the fuel standard used for quantification. This finding was likely due to the presence of EOS PRO solution in the samples, which originated from the April and May 2016 injection event. The reported concentrations are not considered reflective of actual groundwater conditions at the Property. DRPH and ORPH were detected at concentrations below the laboratory reporting limit

and/or groundwater cleanup level in groundwater samples collected from monitoring wells MW13 and MW28.

- GRPH was detected at concentrations below the laboratory reporting limit in groundwater samples collected from monitoring wells MW13, MW21, MW22, and MW28.

GROUNDWATER OXIDATION AND REDUCTION CONDITIONS

The implementation of enhanced reductive dechlorination at the Site promoted the degradation of PCE and its degradation products by producing anaerobic conditions in the groundwater. An assessment of natural attenuation parameters (as displayed in Tables 4 and 5) indicates that groundwater on the Property is under anaerobic conditions, which is evident by the continued degradation of cis-1,2-DCE to VC.

In the ROWs and on the former Seattle Times Site the absence or very low concentrations of cis-1,2-DCE and VC suggests aerobic conditions are present in the groundwater. Aerobic conditions are more conducive to the intrinsic mineralization of low concentrations of cis-1,2-DCE and VC in groundwater to nontoxic end products like ethene, carbon dioxide, water, and chloride. The literature indicates the first order decay rate of VC under aerobic conditions is 1.5 to 2 orders of magnitude greater than that under anaerobic degradation (US Geological Survey 2012). Given high solubility, higher toxicity, and greater volatility of VC compared PCE, TCE, and cis-1,2-DCE, the absence of VC is the preferred condition for the protection of human health and the environment.

DATA QUALITY REVIEW

SoundEarth performed a QA/QC review of the analytical results, which included a review of accuracy and precision of the data supplied by the laboratory. In addition, the relative percent difference (RPD) was calculated for the field duplicate samples collected by SoundEarth from monitoring well MW25.

RPDs for all detected analytes were below the acceptable limit of 25 percent.

Detections of DRPH and/or ORPH in groundwater samples collected from monitoring wells MW21, MW22, and MW28 during the second and/or fourth quarter sampling events were flagged by the laboratory as having a chromatographic pattern that does not match the fuel standard used for quantification. This result was due to the presence of EOS PRO solution in the samples, which originated from the April and May 2016 injection event, and the reported concentrations are not considered reflective of actual groundwater conditions at the Property.

All other quality control criteria are acceptable for the groundwater samples; therefore, no action is required, and analytical results are usable to meet the project objectives. Laboratory analytical reports are provided in Attachment A.

STATISTICAL TREND ANALYSIS

SoundEarth performed a statistical trend analysis to evaluate the trend in concentrations of CVOCs in the groundwater at monitoring wells at the Site for groundwater samples collected between May 2015 and December 2023 (Table 2). In cases where a monitoring well was installed after 2015, the earliest sample results were used to perform the trend analysis. Wells not included in the trend analysis did not contain CVOCs at the concentrations above the laboratory reporting limits or groundwater cleanup levels for the previous four groundwater sampling events. Results from the trend analysis are used to inform the conceptual site model for the Site.

The “target wells” used to perform the trend analyses include:

- On-Property Wells: Monitoring wells MW18, MW19, MW21, MW22, MW24, and MW25 and injection wells IW04, IW50, and IW61
- ROW Wells: Monitoring wells MW04, MW07, MW13, MW26 through MW28, and MW34
- Former Seattle Times Wells MW29 and MW29R

The trend in CVOC concentrations at each target well (i.e., increasing, decreasing, or stable) were analyzed using the Mann-Kendall non-parametric trend analysis method as presented in the EPA *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water* (Wiedemeier et al. 1998). The trend analysis was performed using EPA Statistical Software for Environmental Applications for Data Sets with and without Nondetect Observations dated June 2022 (ProUCL version 5.2.00); CVOC results reported as non-detect were entered at half the laboratory reporting limit to perform the trend analyses.

Results from the trend analyses for the Site are summarized in Table 7. The output from the Mann-Kendall trend analysis is provided in Attachment B. The performance of CVOC concentrations over time in the groundwater at the target wells is presented in Charts A through Q in Attachment B. A trend analysis for monitoring well MW29 was performed by combining analytical results from monitoring wells MW29 and MW29R, which are located on the former Seattle Times Site.

PCE and TCE Trend Analysis

In 2023, PCE was detected at concentrations exceeding the groundwater cleanup level in groundwater samples collected from on-Property injection well IW50 and monitoring well MW13 located in the Boren Avenue ROW, and TCE was detected at concentrations exceeding the groundwater cleanup level in groundwater samples collected from on-Property monitoring well MW25 and monitoring wells MW04, MW07, MW26, MW27, and MW34 located in the ROWs. PCE and TCE concentrations were evaluated for the trend analysis in conjunction with the current footprint of the PCE and TCE groundwater plume originating at source areas located both on and upgradient/cross-gradient from the Property.

As of the fourth quarter of 2023, findings from the PCE and TCE trend analysis are as follows:

- The trend analysis for PCE at on-Property injection well IW50 indicates there is insufficient evidence to identify a significant trend as of the fourth quarter of 2023. In the second quarter of 2023, the concentration of PCE in the groundwater at IW50 was 2.5 times less than the groundwater cleanup level. The fluctuations of PCE concentrations likely result from periodic desorption of PCE from the solid phase to the dissolved phase (which is eventually biologically degraded), PCE leaching from the soil due to changes in groundwater elevation, and/or analytical variability. As shown in Chart A, the performance of PCE in groundwater at injection well IW50 has generally declined since January 2017. PCE concentrations were below the laboratory reporting limit or groundwater cleanup level for eight sampling events prior to the fourth quarter of 2023.
- The trend analysis for PCE in the groundwater at monitoring well MW13 located in the Boren Avenue ROW indicates a decreasing in concentration with time. As shown in Chart B, the performance of PCE in the groundwater shows an occasional fluctuation in PCE concentrations but overall decline in concentrations since August 2015. The fluctuations in the PCE concentrations may result from periodic desorption of PCE from the solid phase to the dissolved

phase, PCE leaching from the soil due changes in groundwater elevation, and/or analytical variability.

- The trend analysis for PCE in the groundwater at monitoring well MW29-29R located on the former Seattle Times Site indicates the concentrations of PCE in the groundwater are stable. As shown in Chart C, the performance of PCE concentrations remained relatively constant since October of 2019.
- The trend analysis for TCE in the groundwater at monitoring well MW25 located on the Property indicates decreasing concentrations with time. As shown in Chart D, the performance of TCE concentrations has shown a dramatic decline since May 2015.
- The trend analyses for TCE in the groundwater at monitoring wells MW04 and MW07 located in the Boren Avenue ROW indicate decreasing concentrations with time, which was also observed in the fourth quarter of 2022. The performances of TCE in the groundwater over time at monitoring well MW04 and MW07 are shown in Charts E and F.
- Trend analysis for TCE in the groundwater at monitoring well MW26 located in Harrison Street ROW indicates a decreasing concentration with time. The performance of TCE in the groundwater at monitoring well MW26 over time is shown in Chart G. The trend analysis for the TCE concentrations in the groundwater at monitoring well MW27 located in the Boren Avenue ROW indicates the concentrations of TCE in the groundwater are stable. The performance of TCE in the groundwater at monitoring well MW27 is shown in Chart H.
- The trend analysis for TCE concentrations in the groundwater at monitoring well MW34 located in the Terry Street ROW is stable with time. The performance of TCE in groundwater at monitoring well MW34 is shown in Chart I.
- The trend analysis for TCE in the groundwater at monitoring well MW29-29R located on the former Seattle Times Site indicates the concentration of TCE in the groundwater is stable. As shown in Chart B, the performance of PCE concentrations has declined and has remained relatively constant since October of 2018.

Cis-1,2-DCE and VC Trend Analysis

Results of the cis-1,2-DCE and VC trend analyses were evaluated in conjunction with the current footprint of the cis-1,2-DCE and VC groundwater plume originating at the Property. In 2023, cis-1,2-DCE and/or VC were detected at concentrations exceeding the applicable groundwater cleanup level in groundwater samples collected from on-Property monitoring wells MW18, MW19, MW21, MW22, MW24, and MW25 and injection wells IW04, IW50, and IW61. As of the fourth quarter of 2023, findings from the cis-1,2-DCE and VC trend analysis are as follows:

- The trend analysis for cis-1,2-DCE concentrations in the groundwater at monitoring well MW28 located in the Thomas Street ROW indicates a decreasing trend with time. This condition was also observed in the fourth quarter of 2022. The performance of cis-1,2-DCE in the groundwater at monitoring well MW28 with time is shown in Chart J. The chart shows a dramatic decline in the concentration of cis-1,2-DCE since June 2019. The absence of cis-1,2-DCE and VC suggest conditions in the groundwater are optimum for aerobic biodegradation in this part of the aquifer beneath the Thomas Street ROW.
- The trend analyses for cis-1,2-DCE concentrations in groundwater at on-Property monitoring well MW22 shows an increasing trend with time. The trend analysis for monitoring well MW24 indicates the concentration of cis-1,2-DCE in the groundwater is stable. The trend analyses for

cis-1,2-DCE concentrations in groundwater at on-Property injection wells IW61 shows an increasing trend with time. The performance of cis-1,2-DCE in the groundwater at monitoring wells MW22, MW24, and IW61 are shown in Charts K, L, and M, respectively. The charts show an increase in cis-1,2-DCE concentrations since July 2016, which is likely the results of degradation of PCE and TCE to cis-1,2-DCE as anticipated.

- The trend analysis for cis-1,2-DCE concentrations in groundwater at on-Property injection well IW50 is statistically decreasing. As shown in Chart A, the performance of cis-1,2-DCE in the groundwater at well IW50 shows that concentrations periodically fluctuate with time. The fluctuation may be due to seasonal fluctuations in the groundwater elevation, which results in adsorption and desorption of CVOCs from the solid phase to the dissolved phase. This periodic desorption leads to a temporary increase in the concentration of 1,2-cis-DCE.
- The trend analysis for cis-1,2-DCE in the groundwater at monitoring well MW29-29R located on the former Seattle Times Site indicates a decreasing trend. As shown in Chart C, the performance of cis-1,2-DCE concentrations has declined since October of 2019.
- The trend analyses for VC concentrations in the groundwater at on-Property monitoring wells MW18, MW19, MW21, MW22, MW24, and MW25 and injection wells IW04 and IW61 are increasing with time. The concentrations of VC over time at monitoring wells MW18, MW19, MW21, MW22, MW24, and MW25 and injection wells IW04 and IW61 are shown on Charts K, L, M, N, O, P, and Q. The increase in the concentration of VC with time suggests there is ongoing residual PCE and/or TCE mass at the Property, which degrades to cis-1,2-DCE and then to VC.
- The trend analysis for VC concentrations in groundwater at on-Property injection well IW50 located on the Property is increasing. As shown in Chart A, the performance of VC concentrations in the groundwater at well IW50 occasionally fluctuates with time. The fluctuation may be due to seasonal fluctuations in the groundwater elevation, resulting in adsorption and desorption of CVOCs from the solid phase to the dissolved phase. This periodic desorption leads to a temporary increase in the concentration of VC.
- The trend analysis for VC in the groundwater at monitoring well MW29-29R located on the former Seattle Times Site indicates that trend is undeterminable. As shown in Chart C, the performance of VC concentrations has declined since October of 2019.

While the overall statistical trend in VC concentrations on the Property is increasing with time, engineering controls on the Property protect the inhalation pathway, which is documented in the two vapor intrusion studies performed at the Property (SoundEarth 2019). In areas downgradient of the Property in the Thomas Street ROW and on the former Seattle Times Site, VC is generally absent in the groundwater. These represent optimum conditions to reduce human health risk when considered in conjunction with continued adherence to remediation levels for roadway excavation workers to protect the inhalation pathway in the Thomas Street ROW and with remediation levels and engineering controls to protect the inhalation pathway on the Seattle Times Site.

These conditions also support the conclusions in the Draft Feasibility Study that additional treatment of the groundwater is not warranted since treating residual concentrations of PCE and TCE in the ROWs and on the Property would only increase VC concentrations in the groundwater in the ROW and beneath the Seattle Times Site. Given the high solubility, higher toxicity, and greater volatility of VC compared to PCE, TCE, and cis-1,2-DCE, the absence of VC or low concentrations of VC are the preferred conditions for the protection of human health and the environment.

CONCLUSIONS

Currently, anaerobic conditions are present in groundwater beneath the Property and remain conducive to the biological degradation of PCE/TCE to cis-1,2-DCE/VC via the anaerobic reductive dechlorination pathway. In the ROWs, aerobic conditions in the groundwater are generally inhibiting the degradation of PCE and TCE to cis-1,2-DCE and VC. On the Property, an increase in cis-1,2-DCE and VC concentrations has been anticipated given the likely presence of residual PCE and TCE mass on the Property and the presence of a yet unknown upgradient source of TCE migrating toward and onto the Property. However, because of the relatively flat groundwater gradient on and downgradient of the Property and aerobic groundwater conditions on the eastern portion of the Property and Thomas Street ROW, the footprint of the cis-1,2-DCE/VC groundwater plume remains generally confined to the Property. Given the two distinctive oxidation reduction conditions in the groundwater at the Site (anaerobic on the Property and aerobic in the ROWs), it is SoundEarth's opinion the CVOC plume at the Site has two distinct geochemical behaviors that, along with the groundwater hydraulics at the Site, have enhanced overall stability of the CVOC plume in areas downgradient of the Property. The groundwater conditions at the Site are the most fortuitous scenario because they involve a groundwater plume in which PCE, TCE, and cis-1,2-DCE are reductively dechlorinated to VC within the Property boundaries and subsequently oxidized either aerobically or via iron reduction on the western portion of the Property and in the ROWs (Wiedemeier et al. 1998).

While the overall statistical trend in VC concentrations on the Property is increasing with time, engineering controls (as shown on Figure 8) on the Property protect the inhalation pathway, which is documented in the two vapor intrusion studies performed at the Property (SoundEarth 2019). In areas downgradient of the Property in the Thomas Street ROW and on the former the Seattle Times Site, VC is generally absent in the groundwater. These represent optimum conditions to reduce human health risk when considered in conjunction with continued adherence to remediation levels for roadway excavation workers to protect the inhalation pathway in the Thomas Street ROW and with remediation levels and engineering controls to protect the inhalation pathway on the Seattle Times Site.

These conditions also support the conclusions in the Draft Feasibility Study that additional treatment of the groundwater is not warranted since treating residual concentrations of PCE and TCE in the ROWs and on the Property would only increase VC concentrations in the groundwater in the ROW and beneath the Seattle Times Site. Given the high solubility, higher toxicity, and greater volatility of VC compared to PCE, TCE, and cis-1,2-DCE, the absence of VC or low concentrations of VC are the preferred conditions for the protection of human health and the environment.

CLOSING

SoundEarth appreciates the opportunity to work with you on this project. Please contact the undersigned at 206-306-1900 if you have any questions or require additional information.

Respectfully,

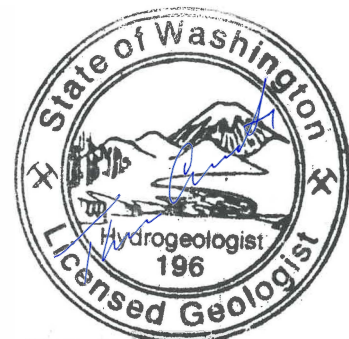
SoundEarth Strategies, Inc.



Levi Fernandes, PE
Principal Environmental Engineer



Thomas Cammarata, LG, LHG
Principal Geochemist



Thomas J. Cammarata

Attachments: Figure 1, Property Location Map
Figure 2, Groundwater Contour Map with Rose Diagram (June 20, 2023)
Figure 3, Groundwater Contour Map with Rose Diagram (December 4, 2023)
Figure 4, Groundwater Analytical Results for Chlorinated Volatile Organic Compounds
Figure 5, Extent of Troy Property TCE Groundwater Plume - Post-Interim Remedial Action (Q2 2023)
Figure 6, Extent of Troy Property VC/cis-1,2-DCE Groundwater Plume - Post-Interim Remedial Action (Q2 2023)
Figure 7, Extent of Troy Property TCE Groundwater Plume - Post-Interim Remedial Action (Q4 2023)
Figure 8, Extent of Troy Property VC/cis-1,2-DCE Groundwater Plume - Post-Interim Remedial Action (Q4 2023)
Table 1, Summary of Groundwater Elevations
Table 2, Groundwater Analytical Results for CVOCs
Table 2A, Summary of Groundwater Analytical Results for CVOCs
Table 3, Groundwater Analytical Results for Petroleum Hydrocarbons
Table 4, Natural Attenuation Parameters
Table 5, Geochemical and Water Quality Parameters
Table 6, Groundwater Analytical Results for Volatile Fatty Acids
Table 7, Summary of Mann-Kendall Non-Parametric Statistical Results
A, Laboratory Analytical Reports
 Second Quarter 2023
 Friedman & Bruya, Inc. #306324
 Friedman & Bruya, Inc. #306390
 Friedman & Bruya, Inc. #306391
 SiREM Lab, #S-9880
 Fourth Quarter 2023
 Friedman & Bruya, Inc. #312070
 Friedman & Bruya, Inc. #312091
 Friedman & Bruya, Inc. #312140
 Friedman & Bruya, Inc. #312158
 Friedman & Bruya, Inc. #401060
 SiREM Lab, #S-10203
B, Statistical Trend Analyses and Performance Charts

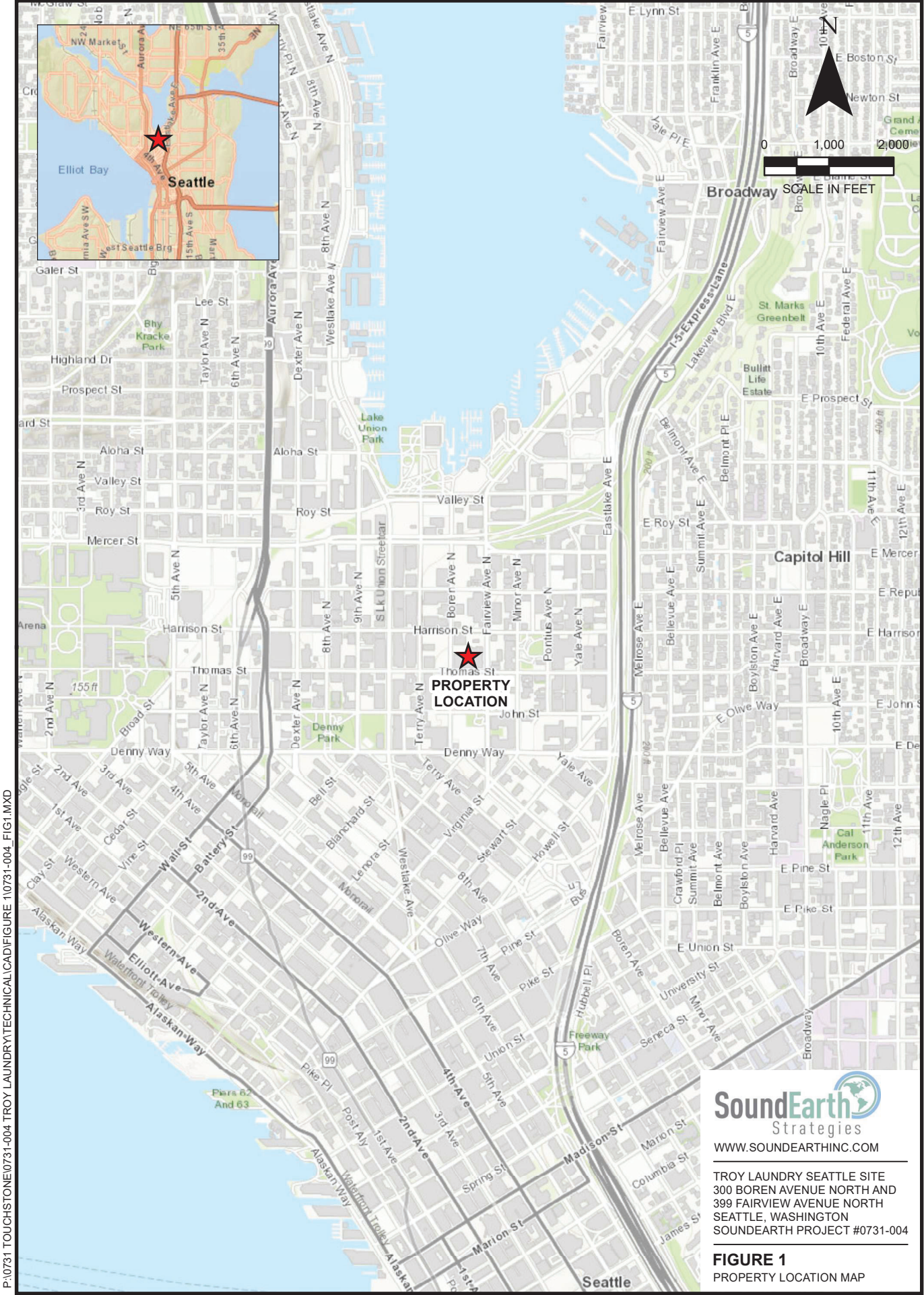
REFERENCES

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- _____. 2019. Letter regarding Supplemental Vapor Intrusion Assessment Report, Troy Laundry Property, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington. From Logan Schumacher and Thomas Cammarata. To Paul Klansnic, TB TS/RELP LLC. May 21.

TB TS/RELP LLC
Ponte Gadea Seattle LLC
May 7, 2024

Wiedemeier, T.H., M.A. Swanson, D.E. Moutoux, E.K. Gordon, J.T. Wilson, B.H. Wilson, D.H. Kampbell, P.E. Haas, R.N. Miller, J.E. Hansen, and F.H. Chapelle (Wiedemeier et al.). 1998. "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water." US Environmental Protection Agency Publication No. EPA/600/R-90/128. Revised August 2008. September.

FIGURES

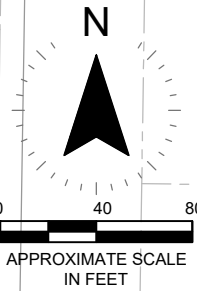
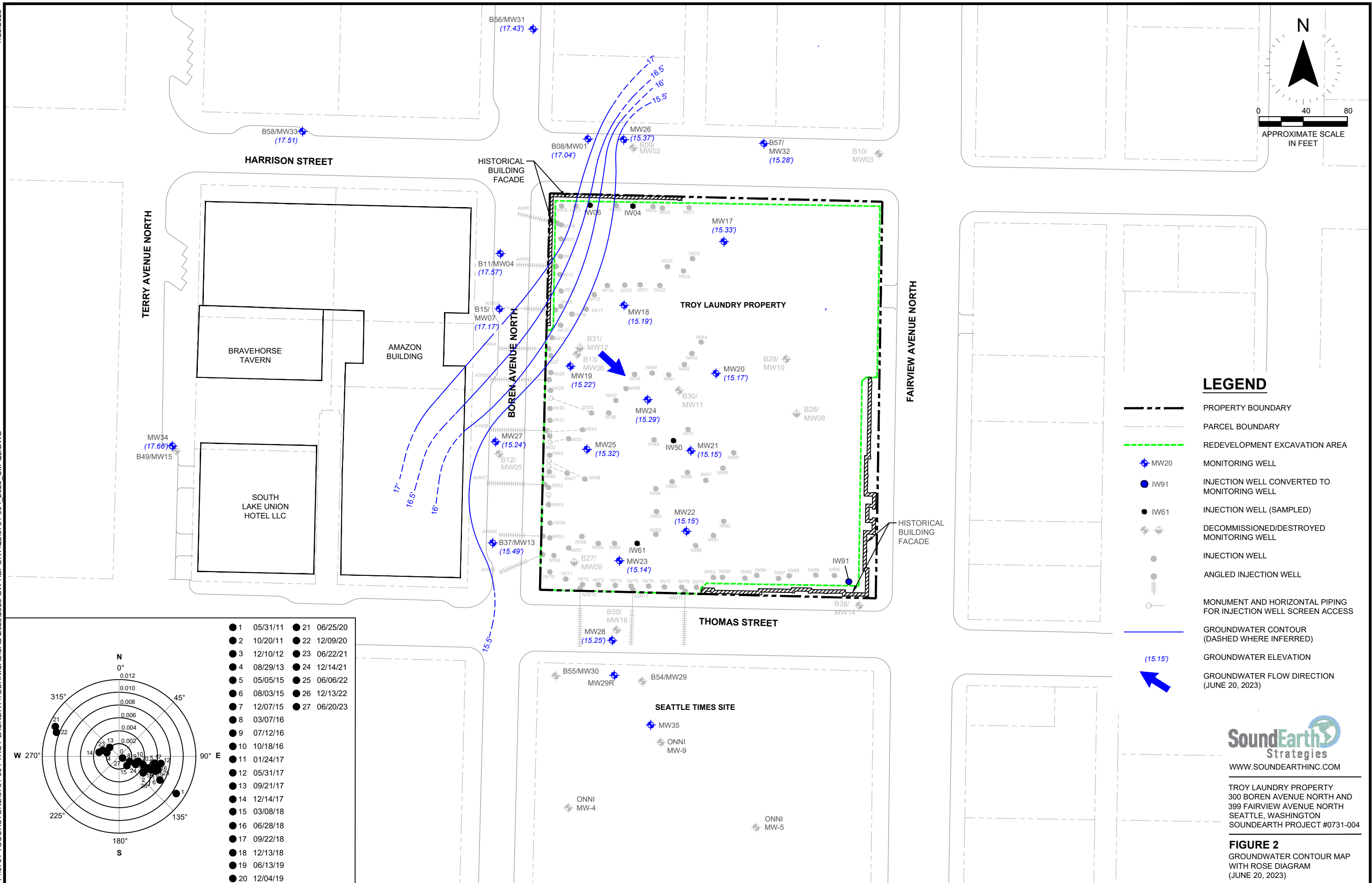


P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\FIGURE 1\0731-004_FIG1.MXD

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TROY LAUNDRY SEATTLE SITE
300 BOREN AVENUE NORTH AND
399 FAIRVIEW AVENUE NORTH
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 1
PROPERTY LOCATION MAP



LEGEND

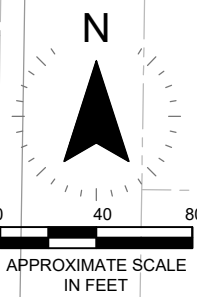
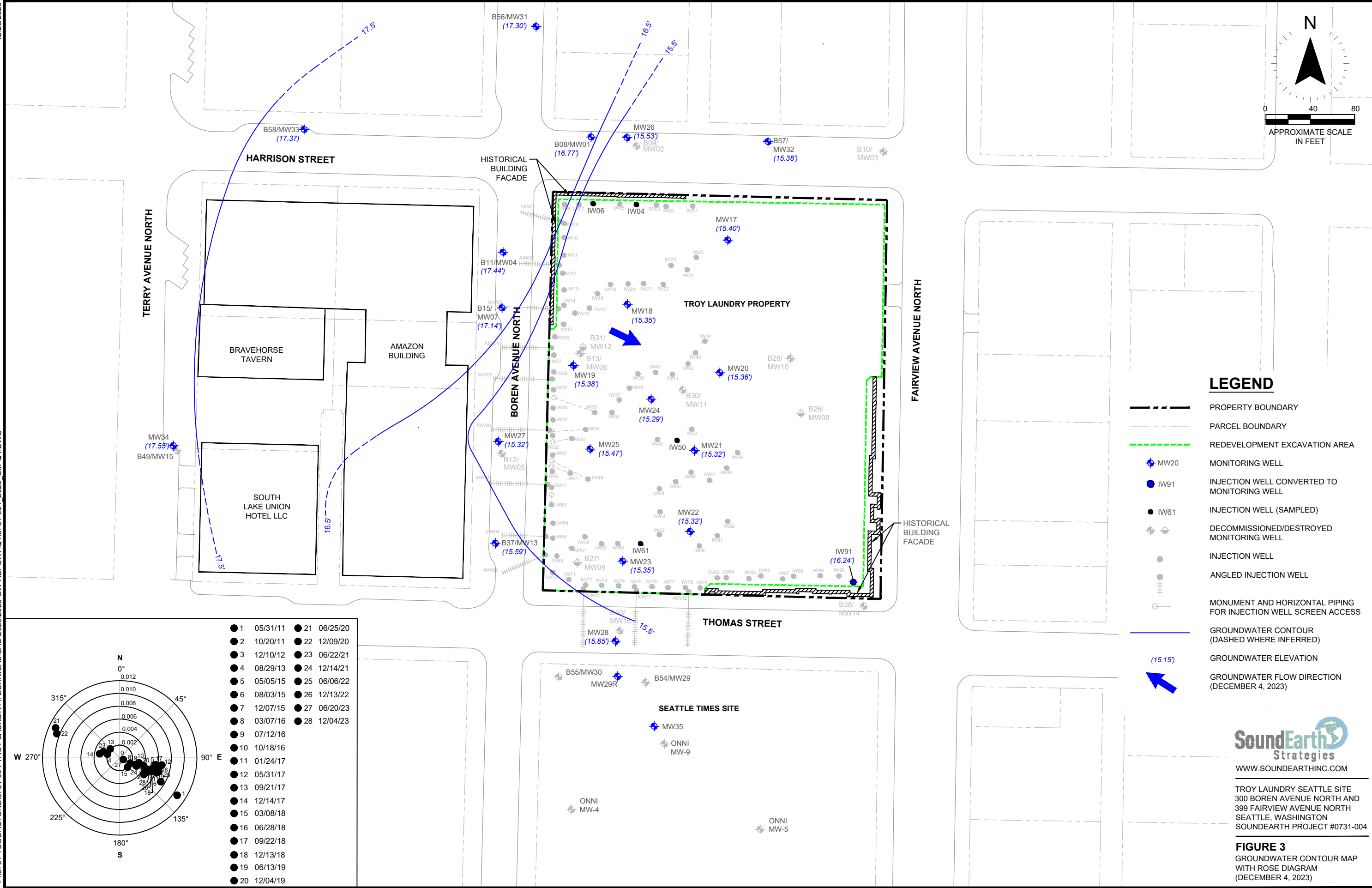
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- MW20 MONITORING WELL
- IW91 INJECTION WELL CONVERTED TO MONITORING WELL
- IW61 INJECTION WELL (SAMPLED)
- DECOMMISSIONED/DESTROYED MONITORING WELL
- INJECTION WELL
- ANGLED INJECTION WELL
- MONUMENT AND HORIZONTAL PIPING FOR INJECTION WELL SCREEN ACCESS
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION (JUNE 20, 2023)

● 1	05/31/11	● 21	06/25/20
● 2	10/20/11	● 22	12/09/20
● 3	12/10/12	● 23	06/22/21
● 4	08/29/13	● 24	12/14/21
● 5	05/05/15	● 25	06/06/22
● 6	08/03/15	● 26	12/13/22
● 7	12/07/15	● 27	06/20/23
● 8	03/07/16		
● 9	07/12/16		
● 10	10/18/16		
● 11	01/24/17		
● 12	05/31/17		
● 13	09/21/17		
● 14	12/14/17		
● 15	03/08/18		
● 16	06/28/18		
● 17	09/22/18		
● 18	12/13/18		
● 19	06/13/19		
● 20	12/04/19		

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TROY LAUNDRY PROPERTY
300 BOREN AVENUE NORTH AND
399 FAIRVIEW AVENUE NORTH
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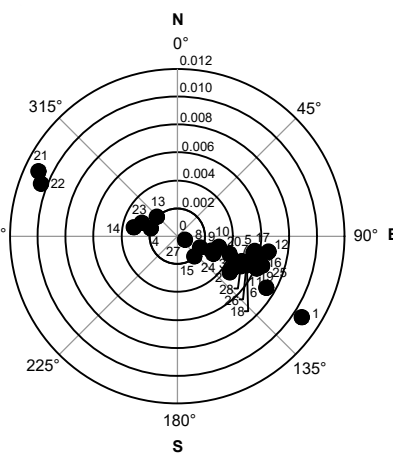
FIGURE 2
GROUNDWATER CONTOUR MAP
WITH ROSE DIAGRAM
(JUNE 20, 2023)



LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- MW20 MONITORING WELL
- IW91 INJECTION WELL CONVERTED TO MONITORING WELL
- IW61 INJECTION WELL (SAMPLED)
- DECOMMISSIONED/DESTROYED MONITORING WELL
- INJECTION WELL
- ANGLED INJECTION WELL
- MONUMENT AND HORIZONTAL PIPING FOR INJECTION WELL SCREEN ACCESS
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION (DECEMBER 4, 2023)

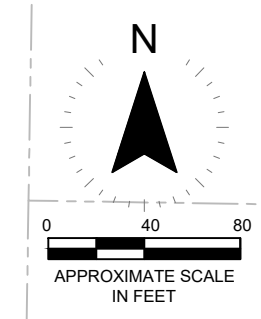
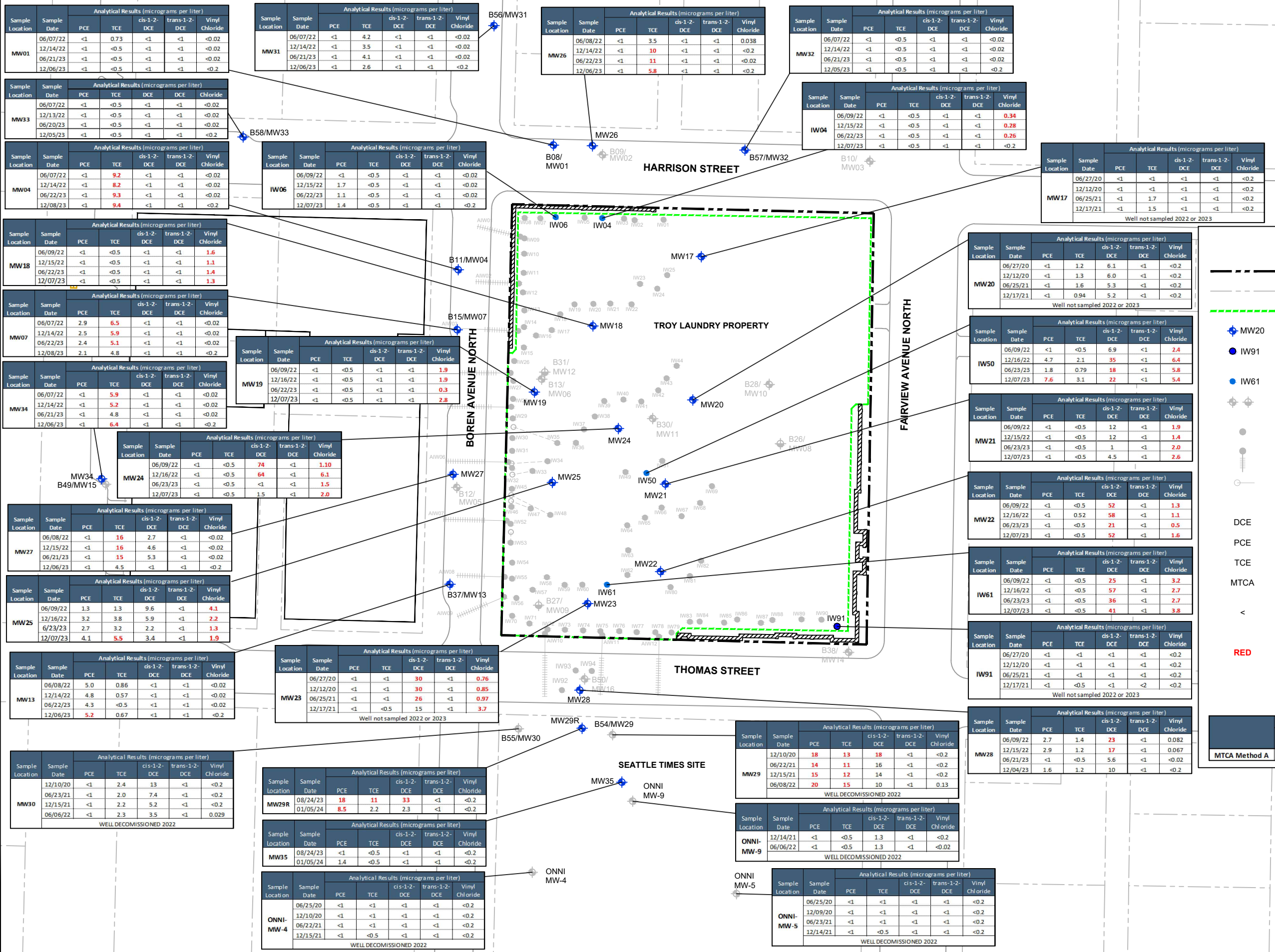
● 1	05/31/11	● 21	06/25/20
● 2	10/20/11	● 22	12/09/20
● 3	12/10/12	● 23	06/22/21
● 4	08/29/13	● 24	12/14/21
● 5	05/05/15	● 25	06/06/22
● 6	08/03/15	● 26	12/13/22
● 7	12/07/15	● 27	06/20/23
● 8	03/07/16	● 28	12/04/23
● 9	07/12/16		
● 10	10/18/16		
● 11	01/24/17		
● 12	05/31/17		
● 13	09/21/17		
● 14	12/14/17		
● 15	03/08/18		
● 16	06/28/18		
● 17	09/22/18		
● 18	12/13/18		
● 19	06/13/19		
● 20	12/04/19		



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TROY LAUNDRY SEATTLE SITE
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 399 FAIRVIEW AVENUE NORTH
 SEATTLE, WASHINGTON
 SOUNDEARTH PROJECT #0731-004

FIGURE 3
 GROUNDWATER CONTOUR MAP
 WITH ROSE DIAGRAM
 (DECEMBER 4, 2023)



LEGEND

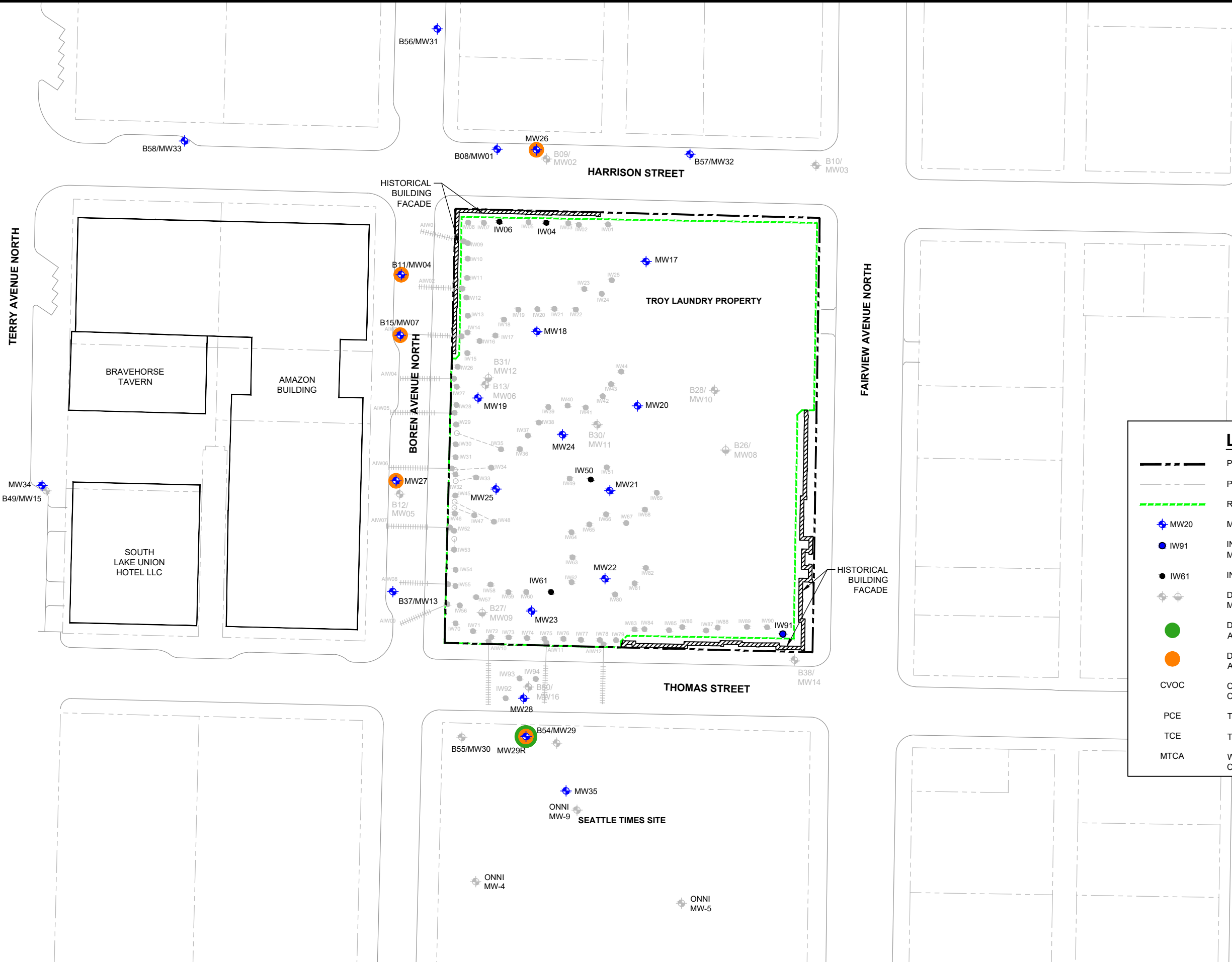
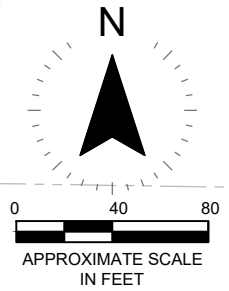
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- ◆ MW20 MONITORING WELL
- IW91 INJECTION WELL CONVERTED TO MONITORING WELL
- IW61 INJECTION WELL (SAMPLED)
- ◆ DECOMMISSIONED/ DESTROYED MONITORING WELL
- INJECTION WELL
- ◆ ANGLED INJECTION WELL
- MONUMENT AND HORIZONTAL PIPING FOR INJECTION WELL SCREEN ACCESS
- DCE DICHLOROETHENE
- PCE TETRACHLOROETHENE
- TCE TRICHLOROETHENE
- MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT
- < NOT DETECTED AT A CONCENTRATION EXCEEDING LABORATORY REPORTING LIMIT
- RED DENOTES CONCENTRATIONS EXCEEDING THE MTCA METHOD CLEANUP LEVEL FOR GROUNDWATER

MTCA Method A	Analytical Results (micrograms per liter)				
	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
	5	5	16	160	0.2

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TROY LAUNDRY SEATTLE SITE
 300 BOREN AVENUE NORTH AND
 399 FAIRVIEW AVENUE NORTH
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FIGURE 4
 GROUNDWATER ANALYTICAL RESULTS FOR CHLORINATED VOLATILE ORGANIC COMPOUNDS

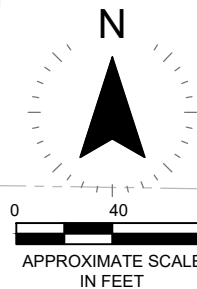


LEGEND	
	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	REDEVELOPMENT EXCAVATION AREA
	MW20 MONITORING WELL
	IW91 INJECTION WELL CONVERTED TO MONITORING WELL
	IW61 INJECTION WELL (SAMPLED)
	DECOMMISSIONED/DESTROYED MONITORING WELL
	DENOTES PCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
	DENOTES TCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
	CVOC CHLORINATED VOLATILE ORGANIC COMPOUND
	PCE TETRACHLOROETHYLENE
	TCE TRICHLOROETHENE
	MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT

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 399 FAIRVIEW AVENUE NORTH
 SEATTLE, WASHINGTON
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FIGURE 5
 EXTENT OF TROY PROPERTY PCE/TCE
 GROUNDWATER PLUME - POST-INTERIM
 REMEDIAL ACTION (Q2 2023)



TERRY AVENUE NORTH

B49/MW15

BRAVEHORSE TAVERN

AMAZON BUILDING

SOUTH LAKE UNION HOTEL LLC

HISTORICAL BUILDING FACADE

B11/MW04
B15/MW07
B12/MW05
B37/MW13

BOREN AVENUE NORTH

B37/MW13

B55/MW30

B54/MW29

B56/MW31

B08/MW01

B09/MW02

B57/MW32

B10/MW03

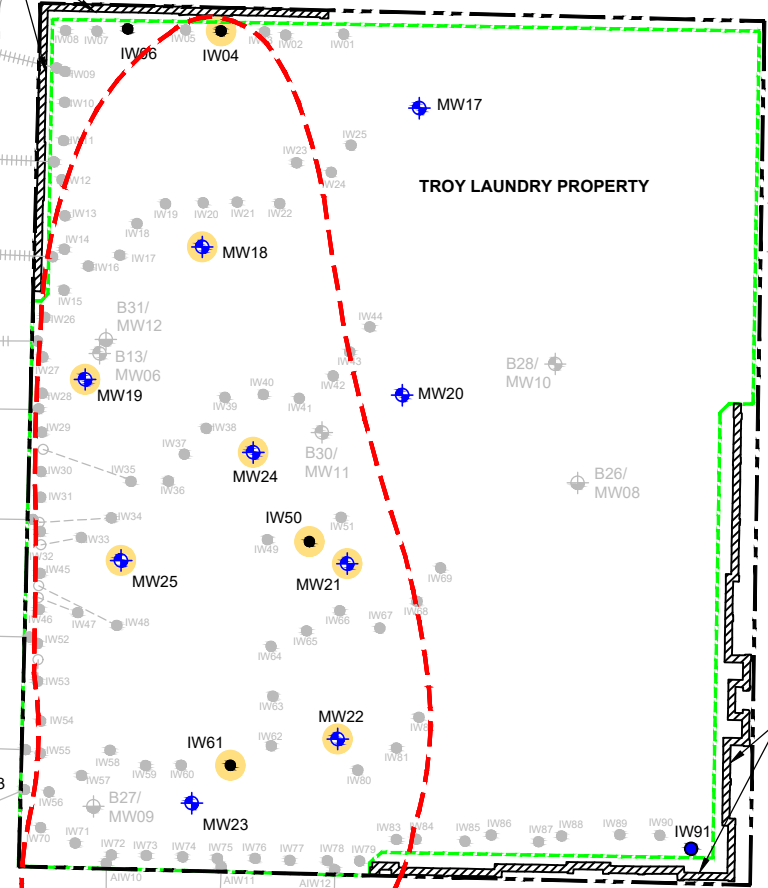
HARRISON STREET

TROY LAUNDRY PROPERTY

THOMAS STREET

FAIRVIEW AVENUE NORTH

HISTORICAL BUILDING FACADE



LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- MW20 MONITORING WELL
- IW91 INJECTION WELL CONVERTED TO MONITORING WELL
- IW61 INJECTION WELL (SAMPLED)
- DECOMMISSIONED/DESTROYED MONITORING WELL
- APPROXIMATE EXTENTS OF POST-TREATMENT cis-1,2-DCE/VC PLUME ABOVE MTCA CLEANUP LEVEL ORIGINATING FROM THE TROY PROPERTY
- DENOTES cis-1,2-DCE/VC CONCENTRATIONS EXCEED APPLICABLE MTCA CLEANUP LEVEL
- CHLORINATED VOLATILE ORGANIC COMPOUND
- DICHLOROETHENE
- VINYL CHLORIDE
- WASHINGTON STATE MODEL TOXICS CONTROL ACT



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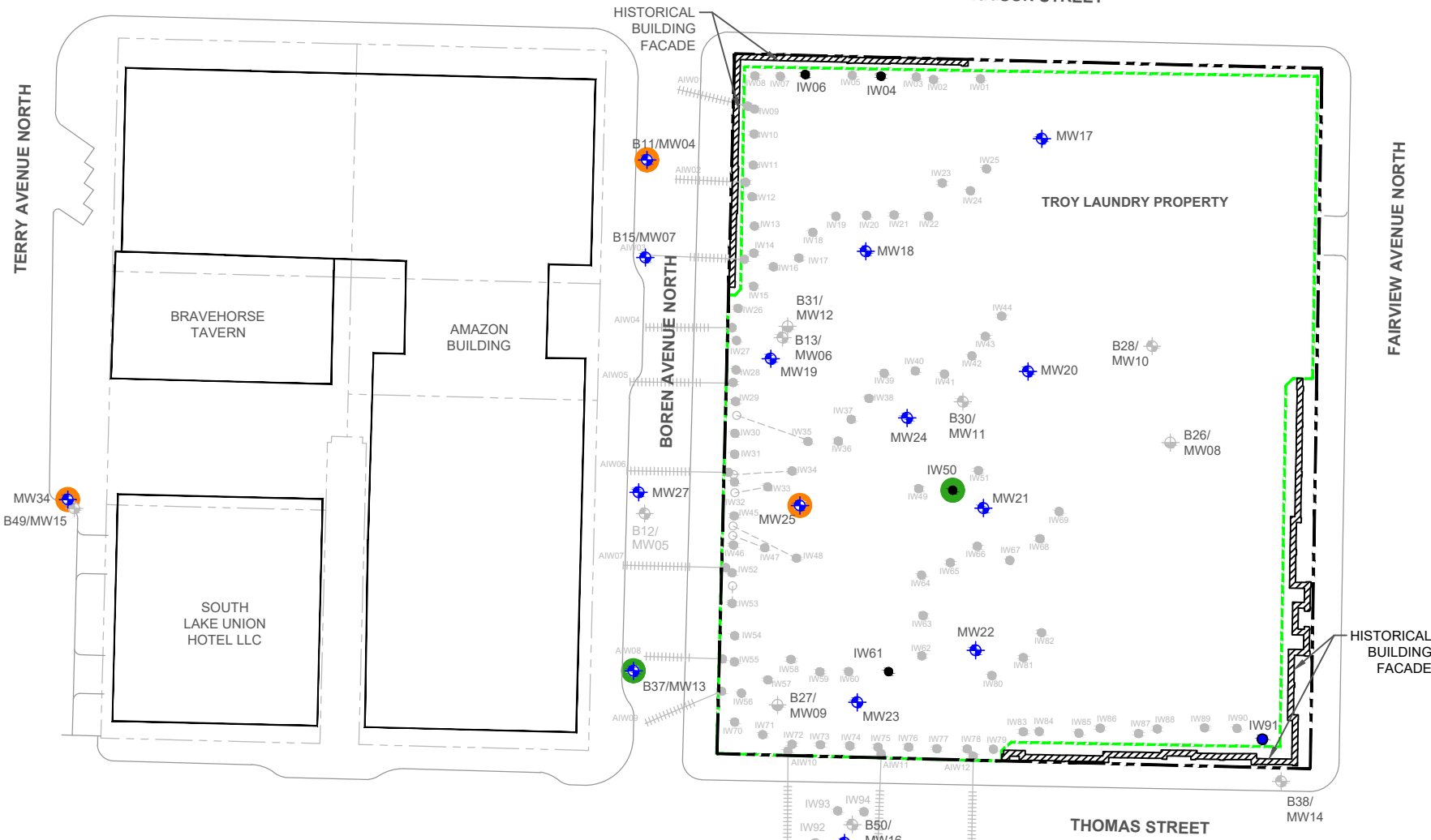
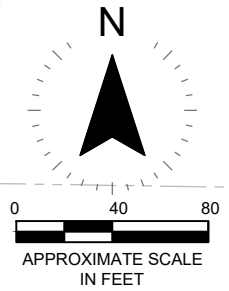
TROY LAUNDRY SEATTLE SITE
300 BOREN AVENUE NORTH
AND
399 FAIRVIEW AVENUE NORTH
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 6
EXTENT OF TROY PROPERTY VC/cis-1,2-DCE
GROUNDWATER PLUME - POST-INTERIM
REMEDIAL ACTION (Q2 2023)

ONNI MW-9 SEATTLE TIMES SITE

ONNI MW-4

ONNI MW-5



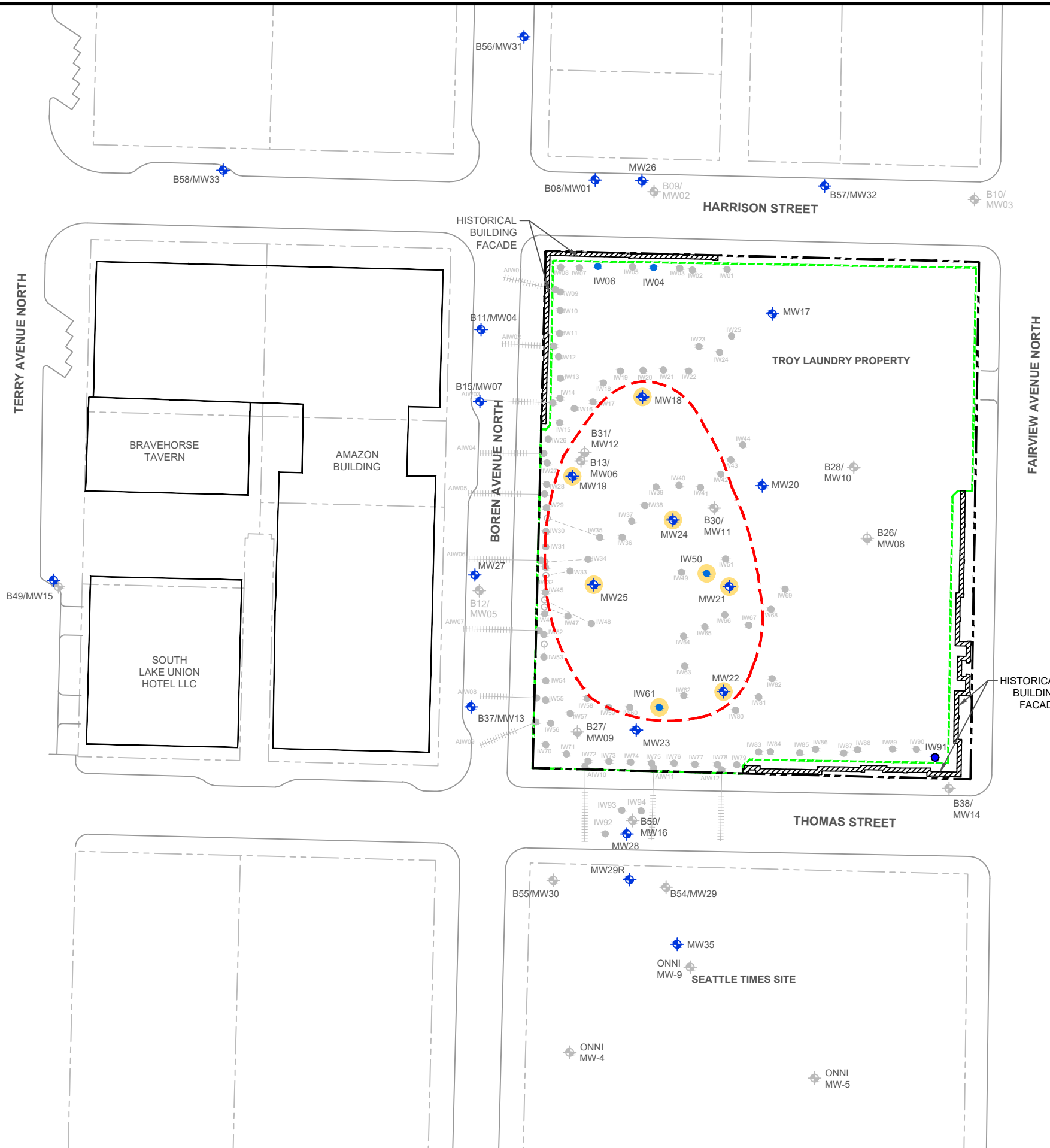
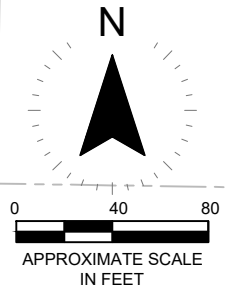
LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- ◆ MW20 MONITORING WELL
- IW91 INJECTION WELL CONVERTED TO MONITORING WELL
- IW61 INJECTION WELL (SAMPLED)
- ◆ DECOMMISSIONED/DESTROYED MONITORING WELL
- DENOTES PCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
- DENOTES TCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
- CVOC CHLORINATED VOLATILE ORGANIC COMPOUND
- PCE TETRACHLOROETHYLENE
- TCE TRICHLOROETHENE
- MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT

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TROY LAUNDRY SEATTLE SITE
 300 BOREN AVENUE NORTH AND
 399 FAIRVIEW AVENUE NORTH
 SEATTLE, WASHINGTON
 SOUNDEARTH PROJECT #0731-004

FIGURE 7
 EXTENT OF TROY PROPERTY PCE/TCE GROUNDWATER PLUME - POST-INTERIM REMEDIAL ACTION (Q4 2023)



LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- MW20 MONITORING WELL
- IW91 INJECTION WELL CONVERTED TO MONITORING WELL
- IW61 INJECTION WELL (SAMPLED)
- DECOMMISSIONED/DESTROYED MONITORING WELL
- APPROXIMATE EXTENTS OF POST-TREATMENT cis-1,2-DCE/VC PLUME ABOVE MTCA CLEANUP LEVEL ORIGINATING FROM THE TROY PROPERTY
- DENOTES cis-1,2-DCE/VC CONCENTRATIONS EXCEED APPLICABLE MTCA CLEANUP LEVEL
- CVOC CHLORINATED VOLATILE ORGANIC COMPOUND
- DCE DICHLOROETHENE
- VC VINYL CHLORIDE
- MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT



TROY LAUNDRY SEATTLE SITE
 300 BOREN AVENUE NORTH AND
 399 FAIRVIEW AVENUE NORTH
 SEATTLE, WASHINGTON
 SOUNDEARTH PROJECT #0731-004

FIGURE 8
 EXTENT OF TROY PROPERTY VC/cis-1,2-DCE
 GROUNDWATER PLUME - POST-INTERIM
 REMEDIAL ACTION (Q4 2023)

TABLES



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well	TOC Elevation ⁽¹⁾ (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
Troy Laundry Property								
MW06	74.78	60	75	15	0	05/31/11	58.70	16.08
						10/20/11	58.91	15.87
						12/13/12	58.71	16.07
						08/29/13	60.30	14.48
DECOMMISSIONED 2013								
MW08	92.88	105	110	-12	-17	10/20/11	77.18	15.70
						08/29/13	78.10	14.78
						DECOMMISSIONED 2013		
MW09	92.92	105	110	-12	-17	10/20/11	77.24	15.68
						08/29/13	78.51	14.41
						DECOMMISSIONED 2013		
MW10	92.73	75	90	18	3	10/20/11	77.14	15.59
						12/13/12	77.01	15.72
						08/29/13	78.28	14.45
						DECOMMISSIONED 2013		
MW11	88.23	68	83	20	5	10/20/11	72.43	15.80
						12/13/12	72.29	15.94
						08/29/13	73.78	14.45
						DECOMMISSIONED 2013		
MW12	74.44	95	100	-21	-26	10/20/11	58.71	15.73
						08/29/13	59.99	14.45
						DECOMMISSIONED 2013		
MW17	35.72	22	37	14	-1	05/05/15	25.26	10.46
						08/03/15	24.82	10.90
						12/07/15	25.49	10.23
						03/07/16	24.98	10.74
						07/12/16	24.61	11.11
						10/18/16	23.14	12.58
						01/24/17	20.84	14.88
						05/31/17	22.75	12.97
						09/21/17	25.73	9.99
						12/14/17	25.14	10.58
						03/08/18	23.04	12.68
						06/28/18	22.00	13.72
						09/19/18	21.64	14.08
						12/13/18	21.42	14.30
						06/13/19	20.93	14.79
						10/09/19	21.30	14.42
						12/04/19	22.04	13.68
						06/25/20	24.13	11.59
						12/09/20	24.74	10.98
						06/22/21	23.38	12.34
12/14/21	21.12	14.60						
06/06/22	21.00	14.72						
12/13/22	20.70	15.02						
06/20/23	20.39	15.33						
12/04/23	20.32	15.40						



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well	TOC Elevation ⁽¹⁾ (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
MW18	35.34	35	55	0	-20	05/05/15	24.92	10.42
						08/03/15	24.49	10.85
						12/07/15	25.21	10.13
						03/07/16	24.64	10.70
						07/12/16	24.23	11.11
						10/18/16	22.81	12.53
						01/24/17	20.98	14.36
						05/31/17	22.49	12.85
						09/21/17	25.36	9.98
						12/14/17	24.70	10.64
						03/08/18	22.60	12.74
						06/28/18	21.70	13.64
						09/19/18	21.34	14.00
						12/13/18	21.12	14.22
						06/13/19	20.62	14.72
						10/09/19	20.50	14.84
						12/04/19	22.15	13.19
						06/25/20	23.81	11.53
						12/09/20	24.42	10.92
						06/22/21	23.01	12.33
12/14/21	21.81	13.53						
06/06/22	20.73	14.61						
12/13/22	20.44	14.90						
06/20/23	20.15	15.19						
12/04/23	19.99	15.35						
MW19	37.69	35	55	3	-17	05/05/15	27.24	10.45
						08/03/15	26.82	10.87
						12/07/15	27.51	10.18
						03/07/16	26.97	10.72
						07/12/16	26.57	11.12
						10/18/16	25.12	12.57
						01/24/17	22.97	14.72
						05/31/17	24.74	12.95
						09/21/17	27.60	10.09
						12/14/17	26.97	10.72
						03/08/18	24.89	12.80
						06/28/18	24.00	13.69
						09/19/18	23.65	14.04
						12/13/18	25.41	12.28
						06/13/19	22.95	14.74
						10/09/19	27.60	10.09
						12/04/19	23.33	14.36
						06/25/20	26.16	11.53
						12/09/20	26.76	10.93
						06/22/20	25.31	12.38
12/14/21	24.13	13.56						
06/06/22	23.04	14.65						
12/13/22	22.74	14.95						
06/20/23	22.47	15.22						
12/04/23	22.31	15.38						



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well	TOC Elevation ⁽¹⁾ (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
MW20	35.63	35	55	1	-19	05/05/15	25.24	10.39
						08/03/15	24.44	11.19
						12/07/15	25.50	10.13
						03/07/16	24.94	10.69
						07/12/16	24.62	11.01
						10/18/16	23.13	12.50
						01/24/17	21.32	14.31
						05/31/17	22.70	12.93
						09/21/17	25.53	10.10
						12/14/17	24.91	10.72
						03/08/18	22.89	12.74
						06/28/18	22.01	13.62
						09/19/18	21.67	13.96
						12/13/18	21.43	14.20
						06/13/19	20.95	14.68
						10/09/19	24.25	11.38
						12/04/19	21.45	14.18
						06/25/20	23.99	11.64
						12/09/20	24.63	11.00
						06/22/21	23.27	12.36
12/14/21	22.12	13.51						
06/06/22	21.04	14.59						
12/13/22	20.74	14.89						
06/20/23	20.46	15.17						
12/04/23	20.27	15.36						
MW21	35.58	35	55	1	-19	05/05/15	25.21	10.37
						08/03/15	24.82	10.76
						12/07/15	25.49	10.09
						03/07/16	24.90	10.68
						07/12/16	24.56	11.02
						10/18/16	23.00	12.58
						01/24/17	21.54	14.04
						05/31/17	23.37	12.21
						09/21/17	25.96	9.62
						12/14/17	25.20	10.38
						03/08/18	24.10	11.48
						06/28/18	22.89	12.69
						09/19/18	INACCESSIBLE	
						12/13/18	22.59	12.99
						06/13/19	23.70	11.88
						10/09/19	26.52	9.06
						12/04/19	20.50	15.08
						06/25/20	23.83	11.75
						12/09/20	24.60	10.98
						06/22/21	23.21	12.37
12/14/21	22.08	13.50						
06/06/22	20.99	14.59						
12/13/22	20.70	14.88						
06/20/23	20.43	15.15						
12/04/23	20.26	15.32						



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
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Seattle, Washington

Well	TOC Elevation ⁽¹⁾ (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
MW22	35.47	35	55	0	-20	05/05/15	25.14	10.33
						08/03/15	24.75	10.72
						12/07/15	25.41	10.06
						03/07/16	24.86	10.61
						07/12/16	24.52	10.95
						10/18/16	23.05	12.42
						01/24/17	21.68	13.79
						05/31/17	23.45	12.02
						09/21/17	26.20	9.27
						12/14/17	25.60	9.87
						03/08/18	23.65	11.82
						06/28/18	23.30	12.17
						09/19/18	INACCESSIBLE	
						12/13/18	21.62	13.85
						06/13/19	--	--
						10/09/19	20.73	14.74
						12/04/19	20.18	15.29
						06/25/20	23.75	11.72
						12/09/20	24.39	11.08
						06/22/21	23.10	12.37
12/14/21	21.94	13.53						
06/06/22	20.79	14.68						
12/13/22	20.61	14.86						
06/20/23	20.32	15.15						
12/04/23	20.15	15.32						
MW23	35.43	36	56	-1	-21	05/05/15	25.08	10.35
						08/03/15	24.72	10.71
						12/07/15	25.34	10.09
						03/07/16	24.77	10.66
						07/12/16	24.54	10.89
						10/18/16	22.98	12.45
						01/24/17	21.06	14.37
						05/31/17	22.41	13.02
						09/21/17	25.11	10.32
						12/14/17	24.65	10.78
						03/08/18	22.69	12.74
						06/28/18	21.03	14.40
						09/19/18	21.50	13.93
						12/13/18	21.22	14.21
						06/13/19	20.80	14.63
						10/09/19	22.03	13.40
						12/04/19	21.22	14.21
						06/25/20	23.75	11.68
						12/09/20	24.40	11.03
						06/22/21	23.07	12.36
12/14/21	21.89	13.54						
06/06/22	20.84	14.59						
12/13/22	20.57	14.86						
06/20/23	20.29	15.14						
12/04/23	20.08	15.35						



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Seattle, Washington

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MW24	34.88	35	55	0	-20	05/05/15	24.47	10.41
						08/03/15	24.06	10.82
						12/07/15	24.72	10.16
						03/07/16	24.12	10.76
						07/12/16	23.76	11.12
						10/18/16	22.19	12.69
						01/24/17	19.95	14.93
						05/31/17	23.29	11.59
						09/21/17	INACCESSIBLE	
						12/14/17	24.22	10.66
						03/08/18	22.10	12.78
						06/28/18	21.98	12.90
						09/19/18	20.81	14.07
						12/13/18	20.65	14.23
						06/13/19	20.18	14.70
						10/09/19	21.65	13.23
						12/04/19	21.40	13.48
						06/25/20	23.27	11.61
						12/09/20	23.91	10.97
						06/22/21	22.52	12.36
12/14/21	21.37	13.51						
06/06/22	20.27	14.61						
12/13/22	19.98	14.90						
06/20/23	19.59	15.29						
12/04/23	19.59	15.29						
MW25	41.38	35.5	55.5	6	-14	05/05/15	30.85	10.53
						08/03/15	30.60	10.78
						12/07/15	31.30	10.08
						03/07/16	30.71	10.67
						07/12/16	30.44	10.94
						10/18/16	28.95	12.43
						01/24/17	27.07	14.31
						05/31/17	28.24	13.14
						09/21/17	31.09	10.29
						12/14/17	30.52	10.86
						03/08/18	28.54	12.84
						06/28/18	27.69	13.69
						09/19/18	27.32	14.06
						12/13/18	27.12	14.26
						06/13/19	26.64	14.74
						10/09/19	27.79	13.59
						12/04/19	26.63	14.75
						06/25/20	29.70	11.68
						12/09/20	30.33	11.05
						06/22/21	28.97	12.41
12/14/21	27.78	13.60						
06/06/22	26.70	14.68						
12/13/22	26.45	14.93						
06/20/23	26.06	15.32						
12/04/23	25.91	15.47						



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Seattle, Washington

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IW91	35.82	20	55	16	-19	05/05/15	25.56	10.26
						08/03/15	25.19	10.63
						12/07/15	25.84	9.98
						03/07/16	25.24	10.58
						07/12/16	24.90	10.92
						10/18/16	23.41	12.41
						01/24/17	21.61	14.21
						05/31/17	22.79	13.03
						09/21/17	25.42	10.40
						12/14/17	24.96	10.86
						03/08/18	23.08	12.74
						06/28/18	22.30	13.52
						09/19/18	21.95	13.87
						12/13/18	21.69	14.13
						06/13/19	21.23	14.59
						10/09/19	23.90	11.92
						12/04/19	21.11	14.71
						06/25/20	23.98	11.84
12/09/20	24.63	11.19						
06/22/21	23.45	12.37						
12/14/21	22.31	13.51						
06/06/22	21.33	14.49						
12/13/22	21.03	14.79						
12/04/23	19.58	16.24						
Boren Avenue North								
MW04	70.69	50	65	21	6	05/27/11	52.22	18.47
						10/20/11	52.82	17.87
						12/10/12	52.88	17.81
						08/29/13	57.25	13.44
						05/05/15	58.22	12.60
						08/03/15	56.87	13.95
						12/07/15	58.82	12.00
						03/07/16	59.25	11.57
						07/12/16	58.49	12.33
						10/18/16	57.02	13.80
						01/24/17	54.06	16.76
						05/31/17	55.59	15.23
	09/21/17					62.08	8.74	
	12/14/17					62.03	8.79	
	03/08/18					57.70	13.12	
	06/28/18					54.94	15.88	
	09/19/18					54.38	16.44	
	12/13/18					54.26	16.56	
	06/13/19					53.61	17.21	
	10/09/19					55.40	15.42	
	12/04/19					54.04	16.78	
	06/25/20					62.05	8.77	
	12/09/20					62.18	8.64	
	06/22/21					60.06	10.76	
12/14/21	55.94	14.88						
06/06/22	53.67	17.15						
12/13/22	53.63	17.19						
06/20/23	53.25	17.57						
12/04/23	53.38	17.44						



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MW05	84.04	65	80	19	4	05/27/11	67.40	16.64
						10/20/11	67.91	16.13
						12/10/12	68.54	15.50
						08/29/13	69.72	14.32
						05/05/15	INACCESSIBLE	
						08/03/15	INACCESSIBLE	
DECOMMISSIONED 2015								
MW07	74.55	55	70	20	5	05/31/11	56.33	18.22
						10/20/11	56.87	17.68
						12/10/12	56.96	17.59
						08/29/13	60.95	13.60
						05/05/15	62.69	11.99
						08/03/15	61.67	13.01
						12/07/15	63.19	11.49
						03/07/16	63.22	11.46
						07/12/16	62.82	11.86
						10/18/16	61.26	13.42
	01/24/17					58.41	16.27	
	05/31/17					59.90	14.78	
	09/21/17					65.17	9.51	
	12/14/17					INACCESSIBLE		
	03/08/18					61.76	12.92	
	06/28/18					59.45	15.23	
	09/19/18					59.07	15.61	
	12/13/18					58.87	15.81	
	06/13/19					57.93	16.75	
	10/09/19					61.02	13.66	
12/04/19	58.38	16.30						
06/30/20	64.92	9.76						
12/09/20	65.28	9.40						
06/22/21	63.21	11.47						
12/14/21	60.22	14.46						
06/06/22	58.00	16.68						
12/13/22	57.85	16.83						
06/20/23	57.51	17.17						
12/04/23	57.54	17.14						
	74.68							



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MW13	90.66	70	85	21	-15	10/20/11	74.69	15.97
						12/10/12	75.38	15.28
						08/29/13	76.23	14.43
	05/05/15					INACCESSIBLE		
	08/03/15					80.07	10.79	
	12/07/15					80.73	10.13	
	03/07/16					80.07	10.79	
	07/12/16					80.03	10.83	
	10/18/16					78.16	12.70	
	01/24/17					75.56	15.30	
	05/31/17					77.40	13.46	
	09/21/17					80.46	10.40	
	12/14/17					80.19	10.67	
	03/08/18					78.13	12.73	
	06/28/18					77.01	13.85	
	09/19/18					76.68	14.18	
	12/13/18					76.52	14.34	
	06/13/19					76.00	14.86	
	10/09/19					81.45	9.41	
	12/04/19					76.00	14.86	
	06/25/20					79.24	11.62	
	12/09/20					79.98	10.88	
	06/22/21					78.58	12.28	
12/14/21	77.21	13.65						
06/06/22	75.95	14.91						
12/13/22	75.75	15.11						
06/20/23	75.37	15.49						
12/04/23	75.27	15.59						
MW27	83.82	90	105	-6	-21	12/07/15	73.86	9.96
						03/07/16	73.23	10.59
						07/12/16	73.01	10.81
						10/18/16	71.38	12.44
						01/24/17	69.57	14.25
						05/31/17	70.89	12.93
						09/21/17	73.87	9.95
						12/14/17	73.25	10.57
						03/08/18	71.10	12.72
						06/28/18	70.20	13.62
						09/19/18	69.85	13.97
						12/13/18	69.69	14.13
						06/13/19	69.19	14.63
						10/09/19	70.30	13.52
						12/04/19	69.11	14.71
						06/30/20	72.38	11.44
						12/09/20	73.10	10.72
						06/22/21	71.61	12.21
12/14/21	70.32	13.50						
06/06/22	69.25	14.57						
12/13/22	68.91	14.91						
06/20/23	68.58	15.24						
12/04/23	68.50	15.32						



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MW31	60.75	40	60	21	1	10/09/19	46.49	14.26
						12/04/19	44.16	16.59
						06/30/20	55.35	5.40
						12/09/20	55.66	5.09
						06/22/21	49.39	11.36
						12/14/21	45.72	15.03
						06/06/22	43.74	17.01
						12/13/22	43.68	17.07
						06/20/23	43.32	17.43
						12/04/23	43.45	17.30
Terry Avenue North								
MW15	58.79	41	56	18	3	12/10/12	40.78	18.01
	58.89					08/29/13	45.37	13.42
						05/05/15	45.86	13.03
						08/03/15	44.81	14.08
						12/07/15	47.08	11.81
						03/07/16	47.58	11.31
						07/12/16	46.73	12.16
						10/18/16	44.97	13.92
						01/24/17	42.05	16.84
						05/31/17	43.08	15.81
						09/21/17	49.62	9.27
						12/14/17	49.92	8.97
						03/08/18	45.80	13.09
						06/28/18	42.95	15.94
						09/19/18	42.35	16.54
						12/13/18	42.26	16.63
						06/13/19	41.65	17.24
						10/09/19	41.80	17.09
						12/04/19	42.00	16.89
						06/25/20	51.75	7.14
12/09/20	52.94	5.95						
06/22/21	NM	NM	NM					
WELL DAMAGED 2021								
MW34	59.09	40	55	19	4	12/14/21	44.19	14.90
						06/06/22	41.89	17.20
						12/13/22	41.74	17.35
						06/20/23	41.43	17.66
						12/04/23	41.54	17.55
Thomas Street								
MW14	104.4	90	105	14	-1	10/20/11	88.81	15.59
						12/13/12	88.66	15.74
						08/29/13	89.99	14.41
DECOMMISSIONED 2013								
MW16	99.02	91	106	8	-7	12/10/12	83.47	15.55
	99.18					08/29/13	84.59	14.43
						05/05/15	88.87	10.31
						08/03/15	88.53	10.65
						12/07/15	89.15	10.03
						03/07/16	88.54	10.64
						07/12/16	88.41	10.77
						10/18/16	86.74	12.44
						01/24/17	84.71	14.47
						05/31/17	86.04	13.14
						09/21/17	88.85	10.33
						12/14/17	88.43	10.75
						03/08/18	86.51	12.67
WELL DAMAGED 2018								



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MW28	99.18	90	105	9.18	-5.82	06/13/19	84.54	14.64
						10/08/19	84.75	14.43
						12/04/19	84.48	14.70
						06/25/20	87.38	11.80
						12/09/20	88.1	11.08
						05/21/21	87.23	11.95
						06/22/21	86.77	12.41
						08/17/21	86.65	12.53
						09/21/21	86.56	12.62
						12/14/21	85.49	13.69
						06/06/22	84.44	14.74
						12/13/22	84.29	14.89
						06/20/23	83.93	15.25
12/04/23	83.33	15.85						
Fairview Avenue North								
MW-C	107.75	85	100	23	8	08/29/13	93.32	14.43
						05/05/15	97.64	10.11
Harrison Street								
MW01	68.68	45	60	24	9	05/25/11	50.59	18.09
						10/20/11	51.03	17.65
						12/10/12	51.24	17.44
						08/29/13	54.35	14.33
						05/05/15	58.11	10.71
	08/03/15					INACCESSIBLE		
	68.82					12/07/15	58.60	10.22
						03/07/16	57.69	11.13
	68.65					07/12/16	57.42	11.23
						10/18/16	55.65	13.00
						01/24/17	52.27	16.38
						05/31/17	54.69	13.96
						09/21/17	58.91	9.74
						12/14/17	58.14	10.51
						03/08/18	55.84	12.81
						06/28/18	54.20	14.45
						09/19/18	53.93	14.72
						12/13/18	53.05	15.60
						06/13/19	52.34	16.31
						10/09/19	56.65	12.00
						12/04/19	52.76	15.89
						06/25/20	57.08	11.57
						12/09/20	57.84	10.81
06/22/21	56.32	12.33						
12/14/21	54.79	13.86						
06/06/22	52.9	15.75						
12/13/22	52.22	16.43						
06/20/23	51.56	17.09						
12/04/23	51.88	16.77						
MW02	70.92	55	70	16	1	05/25/11	54.84	16.08
						10/20/11	55.08	15.84
						12/10/12	55.27	15.65
						08/29/13	56.48	14.44
						05/05/15	INACCESSIBLE	
						08/03/15	INACCESSIBLE	
DECOMMISSIONED 2015								



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MW03	84.65	65	80	20	5	05/27/11	68.75	15.90
						10/20/11	68.97	15.68
						12/10/12	69.21	15.44
						08/29/13	70.21	14.44
						05/05/15	INACCESSIBLE	
						08/03/15	INACCESSIBLE	
DECOMMISSIONED 2015								
MW26	70.57	75	90	-4	-19	12/07/15	60.42	10.15
						03/07/16	59.82	10.75
						07/12/16	59.52	11.05
						10/18/16	58.10	12.47
						01/24/17	56.10	14.47
						05/31/17	57.79	12.78
						09/21/17	60.94	9.63
						12/14/17	60.11	10.46
						03/08/18	57.79	12.78
						06/28/18	56.83	13.74
						09/19/18	56.50	14.07
						12/13/18	56.34	14.23
						06/13/19	55.82	14.75
						10/09/19	57.28	13.29
						12/04/09	55.80	14.77
						06/25/20	59.19	11.38
						12/09/20	59.85	10.72
06/22/21	58.25	12.32						
12/14/21	56.99	13.58						
06/06/22	55.90	14.67						
12/13/22	55.65	14.92						
06/20/23	55.20	15.37						
12/04/23	55.09	15.48						
MW32	78.38	60	75	18	3	10/09/19	65.80	12.58
						12/04/19	62.63	15.75
						06/25/20	66.88	11.50
						12/09/20	67.40	10.98
						06/22/21	66.19	12.19
						12/14/21	64.93	13.45
						06/06/22	63.75	14.63
						12/13/22	63.46	14.92
						06/20/23	63.10	15.28
12/04/23	63.00	15.38						
MW33	56.62	31	51	26	6	10/09/19	40.30	16.32
						12/04/19	39.93	16.69
						06/30/20	50.69	5.93
						12/09/20	WELL DRY	
						06/22/21	46.00	10.62
						12/14/21	41.70	14.92
						06/06/22	39.52	17.10
						12/13/22	39.50	17.12
						06/20/23	39.11	17.51
12/04/23	39.25	17.37						
SMW01	49.45	30	40	19	9	08/29/13	36.78	12.67
SMW02	49.26	30	40	19	9	08/29/13	36.67	12.59
SMW06	48.63	30	40	19	9	08/29/13	36.39	12.24
SMW08	49.30	30	40	19	9	08/29/13	36.69	12.61



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well	TOC Elevation ⁽¹⁾ (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
Westlake Avenue North								
SMW09	48.25	30	40	18	8	08/29/13	35.84	12.41
South-Adjoining Property								
MW29	101.72	82	102	20	0	10/09/19	86.91	14.81
						12/04/19	87.03	14.69
						06/25/20	89.84	11.88
						12/09/20	90.57	11.15
						06/22/21	89.29	12.43
						12/14/21	88.09	13.63
						06/06/22	87.06	14.66
DECOMMISSIONED 2022								
MW30	101.97	84	104	18	-2	10/09/19	87.95	14.02
						12/04/19	87.25	14.72
						06/25/20	90.12	11.85
						12/09/20	91.10	10.87
						06/22/21	89.62	12.35
						12/14/21	88.31	13.66
						06/06/22	88.28	13.69
DECOMMISSIONED 2022								
ONNI-MW-4	108.84	93	105	16	4	06/25/20	97.13	11.71
						12/09/20	97.83	11.01
						06/22/21	96.63	12.21
						12/14/21	95.43	13.41
						06/06/22	94.26	14.58
						DECOMMISSIONED 2022		
ONNI-MW-5	112.78	93	105	20	8	02/06/20	93.10	19.68
						06/25/20	95.65	17.13
						12/09/20	96.30	16.48
						06/22/21	95.14	17.64
						12/14/21	94.04	18.74
						06/06/22	97.95	14.83
DECOMMISSIONED 2022								
ONNI-MW-9	107.10	95	110	12	-3	12/14/21	93.60	13.50
						06/06/22	92.68	14.42
DECOMMISSIONED 2022								
MW29R	53.65	32	52	21.65	1.65	08/24/23	38.60	15.05
MW35	53.65	41	56	12.65	-2.35	08/24/23	38.64	15.01
North-Adjoining Property								
SLU-MW01 ⁽²⁾	53.43	35	45	18	8	08/29/13	40.00	13.43
						DECOMMISSIONED 2013		
SLU-MW02 ⁽²⁾	52.76	30	40	23	13	08/29/13	WELL DRY	--
						DECOMMISSIONED 2013		

NOTES:

⁽¹⁾TOC elevations surveyed relative to NAVD88.

⁽²⁾Groundwater elevation data compiled from reports on file at the Washington State Department of Ecology.

-- = not analyzed, measured, or calculated

NAVD88 = North American Vertical Datum of 1988

TOC = top of casing



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
Troy Laundry Property								
MW06	MW06-20110531	05/31/11	SoundEarth	3.1	8.2	150 ^{de}	<1	0.76
	MW06-20111012	10/12/11	SoundEarth	3.6	11	120	<1	0.76
	MW06-20130909	09/09/13	SoundEarth	3.8	4.5	150	<1	0.93
DECOMMISSIONED 2013								
MW08	MW08-20111013	10/13/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW08-20130910	09/10/13	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2013								
MW09	MW09-20111013	10/13/11	SoundEarth	<1	16	22	<1	<0.2
	MW09-20130910	09/10/13	SoundEarth	1.6	15	2.0	<1	<0.2
DECOMMISSIONED 2013								
MW10	MW10-20111012	10/12/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW10-20130909	09/09/13	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2013								
MW11	MW11-20111013	10/13/11	SoundEarth	21	2.6	5.6	<1	<0.2
	MW11-20130909	09/09/13	SoundEarth	39	3.8	3.6	<1	<0.2
DECOMMISSIONED 2013								
MW12	MW12-20111017	10/17/11	SoundEarth	<1	19	1.3	<1	<0.2
	MW12-20130909	09/09/13	SoundEarth	<1	20	<1	<1	<0.2
DECOMMISSIONED 2013								
MW17	MW17-20150506	05/06/15	SoundEarth	<1	2.2	<1	<1	<0.2
	MW17-20150804	08/07/15	SoundEarth	<1	1.5	<1	<1	<0.2
	MW17-20151207	12/07/15	SoundEarth	<1	1.5	<1	<1	<0.2
	MW17-20160308	03/08/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW17-20160714	07/14/16	SoundEarth	<1	1.2	<1	<1	<0.2
	MW17-20161020	10/20/16	SoundEarth	<1	2.1	<1	<1	<0.2
	MW17-20170126	01/26/17	SoundEarth	<1	1.9	<1	<1	<0.2
	MW17-20170601	06/01/17	SoundEarth	<1	2.5	<1	<1	<0.2
	MW17-20170923	09/23/17	SoundEarth	<1	2.1	1.2	<1	<0.2
	MW17-20171216	12/16/17	SoundEarth	<1	2.5	1.7	<1	<0.2
	MW17-20180310	03/10/18	SoundEarth	<1	2.6	1.5	<1	<0.2
	MW17-20180630	06/30/18	SoundEarth	<1	2.8	2.2	<1	<0.2
	MW17-20180922	09/22/18	SoundEarth	<1	2.7	2.0	<1	<0.2
	MW17-20181215	12/15/18	SoundEarth	<1	2.9	2.2	<1	<0.2
	MW17-20190615	06/15/19	SoundEarth	<1	3.4	2.2	<1	<0.2
	MW17-20191207	12/07/19	SoundEarth	<1	3.9	2.2	<1	<0.2
	MW17-20200627	06/27/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW17-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW17-20210625	06/25/21	SoundEarth	<1	1.7	<1	<1	<0.2
	MW17-20211217	12/17/21	SoundEarth	<1	1.5	<1	<1	<0.2
Well not sampled 2022 or 2023								
MW18	MW18-20150506	05/06/15	SoundEarth	<1	46	5.2	<1	<0.2
	MW18-20150803	08/03/15	SoundEarth	<1	51	4.6	<1	<0.2
	MW18-20151208	12/08/15	SoundEarth	<1	51	9.9	<1	<0.2
	MW18-20160308	03/08/16	SoundEarth	<1	44	8.1	<1	<0.2
	MW18-20160714	07/14/16	SoundEarth	<1	3.3	1.7	<1	<0.2
	MW18-20161020	10/20/16	SoundEarth	<1	6.5	4.0	<1	<0.2
	MW18-20170126	01/26/17	SoundEarth	<1	7.7	14	<1	0.25
	MW18-20170601	06/01/17	SoundEarth	<1	3.3	14	<1	0.31
	MW18-20170923	09/23/17	SoundEarth	<1	<1	22	<1	0.38
	MW18-20171216	12/16/17	SoundEarth	<1	<1	22	<1	0.24
	MW18-20180310	03/10/18	SoundEarth	<1	<1	27	<1	0.40
	MW18-20180630	06/30/18	SoundEarth	<1	<1	27	<1	0.43
	MW18-20180922	09/22/18	SoundEarth	<1	<1	21	<1	0.42
	MW18-20181215	12/15/18	SoundEarth	<1	<1	24	<1	0.49
	MW18-20190615	06/15/19	SoundEarth	<1	<1	28	<1	0.44
	MW18-20191207	12/07/19	SoundEarth	<1	<1	28	<1	0.55
	MW18-20200627	06/27/20	SoundEarth	<1	<1	27	<1	1.5
	MW18-20201212	12/12/20	SoundEarth	<1	<1	15	<1	2.4
	MW18-20210625	06/25/21	SoundEarth	<1	<1	1.9	<1	1.7
	MW18-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<1	1.8
MW18-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	1.6	
MW18-20221215	12/15/22	SoundEarth	<1	<0.5	<1	<1	1.1	
MW18-20230622	06/22/23	SoundEarth	<1	<0.5	<1	<1	1.4	
MW18-20231207	12/07/23	SoundEarth	<1	<0.5	<1	<1	1.3	
Commercial Worker Groundwater Remediation Level at the Property⁽⁴⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs⁽⁴⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5⁽²⁾	5⁽²⁾	16⁽³⁾	160⁽³⁾	0.2⁽²⁾



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW19	MW19-20150507	05/07/15	SoundEarth	<1	69	15	<1	<0.2
	MW19-20150803	08/03/15	SoundEarth	<1	61	20	<1	<0.2
	MW19-20151207	12/07/15	SoundEarth	<1	65	23	<1	<0.2
	MW19-20160308	03/08/16	SoundEarth	<1	52	26	<1	<0.2
	MW19-20160713	07/13/16	SoundEarth	<1	4.6	10	<1	<0.2
	MW19-20161021	10/21/16	SoundEarth	<1	10	4.4	<1	0.40
	MW19-20170125	01/25/17	SoundEarth	<1	5.5	3.9	<1	0.30
	MW19-20170601	06/01/17	SoundEarth	<1	5.7	3.5	<1	0.44
	MW19-20170923	09/23/17	SoundEarth	<1	1.7	3.4	<1	0.97
	MW19-20171216	12/16/17	SoundEarth	<1	1.1	13	<1	0.97
	MW19-20180310	03/10/18	SoundEarth	<1	<1	12	<1	0.78
	MW19-20180630	06/30/18	SoundEarth	<1	<1	12	<1	0.96
	MW19-20180922	09/22/18	SoundEarth	<1	<1	16	<1	0.86
	MW19-20190615	06/15/19	SoundEarth	<1	<1	27	<1	0.79
	MW19-20191207	12/07/19	SoundEarth	<1	<1	35	<1	0.98
	MW19-20200627	06/27/20	SoundEarth	<1	<1	41	<1	0.78
	MW19-20201212	12/12/20	SoundEarth	<1	<1	22	<1	2.6
	MW19-20210625	06/25/21	SoundEarth	<1	<1	<1	<1	1.0
	MW19-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<1	1.5
	MW19-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	1.9
MW19-20221216	12/16/22	SoundEarth	<1	<0.5	<1	<1	1.9	
MW19-20230622	06/22/23	SoundEarth	<1	<0.5	<1	<1	0.25	
MW19-20231207	12/07/23	SoundEarth	<1	<0.5	<1	<1	2.8	
MW20	MW20-20150506	05/06/15	SoundEarth	<1	<1	1.5	<1	<0.2
	MW20-20150803	08/03/15	SoundEarth	<1	<1	1.2	<1	<0.2
	MW20-20151207	12/07/15	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20160309	03/09/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20160715	07/15/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20161020	10/20/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20170125	01/25/17	SoundEarth	<1	<1	4.1	<1	<0.2
	MW20-20170601	06/01/17	SoundEarth	<1	<1	1.2	<1	<0.2
	MW20-20170924	09/24/17	SoundEarth	<1	<1	9.5	<1	<0.2
	MW20-20171216	12/16/17	SoundEarth	<1	1.3	15	<1	0.35
	MW20-20180310	03/10/18	SoundEarth	<1	<1	11	<1	<0.2
	MW20-20180630	06/30/18	SoundEarth	<1	<1	7	<1	<0.2
	MW20-20180922	09/22/18	SoundEarth	<1	<1	5.3	<1	<0.2
	MW20-20181215	12/15/18	SoundEarth	<1	<1	4.4	<1	<0.2
	MW20-20190615	06/15/19	SoundEarth	<1	<1	3.8	<1	<0.2
	MW20-20191207	12/07/19	SoundEarth	<1	<1	3.0	<1	<0.2
	MW20-20200627	06/27/20	SoundEarth	<1	1.2	6.1	<1	<0.2
	MW20-20201212	12/12/20	SoundEarth	<1	1.3	6.0	<1	<0.2
	MW20-20210625	06/25/21	SoundEarth	<1	1.6	5.3	<1	<0.2
	MW20-20211217	12/17/21	SoundEarth	<1	0.94	5.2	<1	<0.2
Well not sampled 2022 or 2023								
MW21	MW21-20150506	05/06/15	SoundEarth	5.1	1.6	7.2	<1	<0.2
	MW21-20150804	08/04/15	SoundEarth	4.9	1.4	4.5	<1	<0.2
	MW21-20151208	12/08/15	SoundEarth	7.3	2.0	6.7	<1	<0.2
	MW21-20160309	03/09/16	SoundEarth	5.3	1.4	7.9	<1	<0.2
	MW21-20160713	07/13/16	SoundEarth	<1	<1	1.2	<1	<0.2
	MW21-20161020	10/20/16	SoundEarth	<1	<1	1.7	<1	<0.2
	MW21-20170126	01/26/17	SoundEarth	<1	<1	2.4	<1	<0.2
	MW21-20170601	06/01/17	SoundEarth	<1	<1	2.4	<1	<0.2
	MW21-20170923	09/23/17	SoundEarth	<1	<1	3.7	<1	<0.2
	MW21-20171216	12/16/17	SoundEarth	<1	<1	14	<1	0.49
	MW21-20180310	03/10/18	SoundEarth	<1	<1	14	<1	0.43
	MW21-20180630	06/30/18	SoundEarth	<1	<1	6.0	<1	0.29
	MW21-20180922	09/22/18	SoundEarth	<1	<1	6.9	<1	0.30
	MW21-20181215	12/15/18	SoundEarth	<1	<1	16	<1	0.96
	MW21-20190615	06/15/19	SoundEarth	<1	<1	29	<1	1.1
	MW21-20191207	12/07/19	SoundEarth	<1	<1	34	<1	1.3
	MW21-20200627	06/27/20	SoundEarth	<1	<1	13	<1	0.49
	MW21-20201212	12/12/20	SoundEarth	<1	<1		<1	1.8
	MW21-20210625	06/25/21	SoundEarth	<1	<1	11	<1	0.86
	MW21-20211217	12/17/21	SoundEarth	<1	<0.5	12	<1	1.3
MW21-20220609	06/09/22	SoundEarth	<1	<0.5	12	<1	1.9	
MW21-20221215	12/15/22	SoundEarth	<1	<0.5	12	<1	1.4	
MW21-20230623	06/23/23	SoundEarth	<1	<0.5	1.4	<1	2.0	
MW21-20231207	12/07/23	SoundEarth	<1	<0.5	4.5	<1	2.6	
Commercial Worker Groundwater Remediation Level at the Property⁽⁴⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs⁽⁴⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5⁽²⁾	5⁽²⁾	16⁽³⁾	160⁽³⁾	0.2⁽²⁾



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Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW22	MW22-20150506	05/06/15	SoundEarth	11	2.2	27	<1	<0.2
	MW22-20150804	08/04/15	SoundEarth	17	3.0	34	<1	<0.2
	MW22-20151208	12/08/15	SoundEarth	19	3.7	42	<1	<0.2
	MW22-20160308	03/08/16	SoundEarth	28	4.5	52	<1	0.35
	MW22-20160713	07/13/16	SoundEarth	<1	<1	5.5	<1	<0.2
	MW22-20161020	10/20/16	SoundEarth	<1	<1	6.7	<1	0.65
	MW22-20170126	01/26/17	SoundEarth	<1	<1	8.5	<1	0.51
	MW22-20170601	06/01/17	SoundEarth	<1	<1	10	<1	1.5
	MW22-20170923	09/23/17	SoundEarth	<1	<1	18	<1	1.4
	MW22-20171216	12/16/17	SoundEarth	<1	<1	22	<1	1.2
	MW22-20180310	03/10/18	SoundEarth	<1	<1	22	<1	1.3
	MW22-20180630	06/30/18	SoundEarth	<1	<1	28	<1	1.2
	MW22-20180922	09/22/18	SoundEarth	<1	<1	33	<1	0.90
	MW22-20181215	12/15/18	SoundEarth	<1	<1	37	<1	1.2
	MW22-20190615	06/15/19	SoundEarth	1.1	1.1	49	<1	1.0
	MW22-20191207	12/07/19	SoundEarth	1.3	1.3	48	<1	1.0
	MW22-20200627	06/27/20	SoundEarth	1.4	1.3	42	<1	0.99
	MW22-20201212	12/12/20	SoundEarth	<1	<1	44	<1	1.1
	MW22-20210625	06/25/21	SoundEarth	1.1	<1	43	<1	0.82
	MW22-20211217	12/17/21	SoundEarth	<1	0.51	52	<1	1.2
MW22-20220609	06/09/22	SoundEarth	<1	<0.5	52	<1	1.3	
MW22-20221216	12/16/22	SoundEarth	<1	0.52	58	<1	1.1	
MW22-20230623	06/23/23	SoundEarth	<1	<0.5	21	<1	0.51	
MW22-20231207	12/07/23	SoundEarth	<1	<0.5	52	<1	1.6	
MW23	MW23-20150507	05/07/15	SoundEarth	6.1	18	13	<1	<0.2
	MW23-20150804	08/04/15	SoundEarth	6.1	24	20	<1	0.20
	MW23-20151208	12/08/15	SoundEarth	3.8	16	120	<1	0.57
	MW23-20160308	03/08/16	SoundEarth	4.1	14	95	<1	0.64
	MW23-20160714	07/14/16	SoundEarth	<1	1.6	14	<1	2.2
	MW23-20161020	10/20/16	SoundEarth	<1	2.1	9.9	<1	0.48
	MW23-20170126	01/26/17	SoundEarth	<1	2.9	41	<1	1.4
	MW23-20170601	06/01/17	SoundEarth	<1	2.7	23	<1	0.74
	MW23-20170923	09/23/17	SoundEarth	<1	1.7	16	<1	0.50
	MW23-20171216	12/16/17	SoundEarth	<1	1.3	14	<1	0.51
	MW23-20180310	03/10/18	SoundEarth	<1	<1	20	<1	0.52
	MW23-20180630	06/30/18	SoundEarth	<1	<1	14	<1	0.53
	MW23-20180922	09/22/18	SoundEarth	<1	<1	16	<1	0.53
	MW23-20181215	12/15/18	SoundEarth	<1	<1	17	<1	<0.2
	MW23-20190615	06/15/19	SoundEarth	<1	<1	25	<1	0.72
	MW23-20191207	12/07/19	SoundEarth	<1	<1	38	<1	0.89
	MW23-20200627	06/27/20	SoundEarth	<1	<1	30	<1	0.76
	MW23-20201212	12/12/20	SoundEarth	<1	<1	30	<1	0.85
	MW23-20210625	06/25/21	SoundEarth	<1	<1	26	<1	0.97
	MW23-20211217	12/17/21	SoundEarth	<1	<0.5	15	<1	3.7
Well not sampled 2022 or 2023								
MW24	MW24-20150506	05/06/15	SoundEarth	2.5	31	72	<1	0.26
	MW24-20150804	08/04/15	SoundEarth	5.5	28	75	<1	<0.2
	MW24-20151208	12/08/15	SoundEarth	11	28	54	<1	<0.2
	MW24-20160309	03/09/16	SoundEarth	11	23	45	<1	<0.2
	MW24-20160715	07/15/16	SoundEarth	<1	1.7	12	<1	<0.2
	MW98-20160715 (DUP)		SoundEarth	<1	1.8	12	<1	<0.2
	MW24-20161020	10/20/16	SoundEarth	<1	2.7	12	<1	0.26
	MW24-20170125	01/25/17	SoundEarth	<1	3.5	20	<1	0.81
	MW24-20170601	06/01/17	SoundEarth	1.1	4.8	35	<1	1.0
	MW24-20170924	09/24/17	SoundEarth	<1	1.8	33	<1	0.36
	MW24-20171216	12/16/17	SoundEarth	<1	1.3	30	<1	0.38
	MW24-20180310	03/10/18	SoundEarth	<1	<1	25	<1	0.36
	MW24-20180630	06/30/18	SoundEarth	1.5	1.9	41	<1	2.1
	MW24-20180922	09/22/18	SoundEarth	<1	<1	35	<1	0.37
	MW24-20181215	12/15/18	SoundEarth	<1	<1	43	<1	0.51
	MW24-20190615	06/15/19	SoundEarth	<1	<1	84	<1	1.0
	MW24-20191207	12/07/19	SoundEarth	<1	<1	83	<1	0.94
	MW24-20200627	06/27/20	SoundEarth	<1	<1	61	<1	0.76
	MW24-20201212	12/12/20	SoundEarth	<1	<1	45	<1	0.61
	MW24-20210625	06/25/21	SoundEarth	<1	<1	37	<1	0.67
MW24-20211217	12/17/21	SoundEarth	<1	<0.5	46	<1	0.71	
MW24-20220609	06/09/22	SoundEarth	<1	<0.5	74	<1	1.1	
MW24-20221216	12/16/22	SoundEarth	<1	<0.5	64	<1	6.1	
MW24-20230623	06/23/23	SoundEarth	<1	<0.5	<1	<1	1.5	
MW24-20231207	12/07/23	SoundEarth	<1	<0.5	1.5	<1	2.0	
Commercial Worker Groundwater Remediation Level at the Property⁽⁴⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs⁽⁴⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5⁽⁵⁾	5⁽⁷⁾	16⁽⁹⁾	160⁽⁷⁾	0.2⁽⁴⁾



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW25	MW25-20150507	05/07/15	SoundEarth	<1	68	5.2	<1	<0.2
	MW99-20150507 (DUP)			<1	69	5.3	<1	<0.2
	MW25-20150805	08/05/15	SoundEarth	3.0	75	7.9	<1	<0.2
	MW99-20150805 (DUP)			2.9	73	7.8	<1	<0.2
	MW25-20151209	12/09/15	SoundEarth	11	71	8.4	<1	<0.2
	MW99-20151209 (DUP)			11	72	8.3	<1	<0.2
	MW25-20160308	03/08/16	SoundEarth	24	50	12	<1	<0.2
	MW99-20160308 (DUP)			25	50	12	<1	<0.2
	MW25-20160713	07/13/16	SoundEarth	6.1	4.8	23	<1	0.70
	MW25-20161019	10/19/16	SoundEarth	1.8	5.1	15	<1	0.96
	MW99-20161019 (DUP)			1.7	5.0	16	<1	1.0
	MW25-20170125	01/25/17	SoundEarth	1.0	3.6	44	<1	0.89
	MW99-20170125 (DUP)			1.1	3.7	44	<1	0.92
	MW25-20170601	06/01/17	SoundEarth	<1	1.2	15	<1	0.31
	MW99-20170601 (DUP)			<1	1.3	15	<1	0.41
	MW25-20170923	09/23/17	SoundEarth	<1	<1	15	<1	0.40
	MW99-20170923 (DUP)			<1	<1	15	<1	0.34
	MW25-20171216	12/16/17	SoundEarth	<1	<1	23	<1	0.41
	MW99-20171216 (DUP)			<1	<1	23	<1	0.40
	MW25-20180310	03/10/18	SoundEarth	<1	<1	25	<1	0.32
	MW99-20180310 (DUP)			<1	<1	25	<1	0.30
	MW25-20180630	06/30/18	SoundEarth	<1	<1	31	<1	0.52
	MW99-20180630 (DUP)			<1	<1	32	<1	0.49
	MW25-20180922	09/22/18	SoundEarth	<1	<1	37	<1	0.46
	MW99-20180922 (DUP)			<1	<1	36	<1	0.51
	MW25-20181215	12/15/18	SoundEarth	<1	<1	40	<1	0.60
	MW99-20181215 (DUP)			<1	<1	39	<1	0.57
	MW25-20190615	06/15/19	SoundEarth	<1	<1	45	<1	0.54
	MW99-20190615 (DUP)			<1	<1	43	<1	0.50
	MW25-20191207	12/07/19	SoundEarth	<1	<1	40	<1	0.63
	MW99-20191207 (DUP)			<1	<1	36	<1	0.58
	MW25-20200627	6/27/2020	SoundEarth	<1	<1	40	<1	0.73
	MW99-20200627 (DUP)			<1	<1	37	<1	0.67
MW25-20201212	12/12/20	SoundEarth	<1	<1	35	<1	0.43	
MW99-20201212 (DUP)			<1	<1	34	<1	0.43	
MW25-20210625	06/25/21	SoundEarth	<1	<1	48	<1	0.79	
MW99-20210625 (DUP)			<1	<1	47	<1	0.90	
MW25-20211217	12/17/21	SoundEarth	<1	0.52	13	<1	3.6	
MW99-20211217 (DUP)			<1	0.53	13	<1	3.7	
MW25-20220609	06/09/22	SoundEarth	1.3	1.3	9.6	<1	4.1	
MW99-20220609 (DUP)			1.3	1.3	9.5	<1	4.0	
MW25-20221216	12/16/22	SoundEarth	3.2	3.8	5.9	<1	2.2	
MW99-20221216 (DUP)			3.0	3.7	5.7	<1	2.1	
MW25-20230623	06/23/23	SoundEarth	2.7	3.2	2.2	<1	1.3	
MW99-20230623 (DUP)			2.8	3.4	2.3	<1	1.3	
MW25-20231207	12/07/23	SoundEarth	4.1	5.5	3.4	<1	1.9	
MW99-20231207 (DUP)			3.9	5.4	3.4	<1	1.9	
IW04	IW04-20150508	05/08/15	SoundEarth	<1	15	1.9	<1	<0.2
	IW04-20160309	03/09/16	SoundEarth	<1	2.5	11	<1	<0.2
	IW04-20160714	07/14/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW04-20161021	10/21/16	SoundEarth	<1	<1	1.8	<1	<0.2
	IW04-20170126	01/26/17	SoundEarth	<1	1.1	4.8	<1	<0.2
	IW04-20170601	06/01/17	SoundEarth	<1	1.2	12	<1	0.21
	IW04-20170923	09/23/17	SoundEarth	<1	<1	14	<1	0.22
	IW04-20171216	12/16/17	SoundEarth	<1	<1	19	<1	0.54
	IW04-20180310	03/10/18	SoundEarth	<1	<1	9.0	<1	0.65
	IW04-20180630	06/30/18	SoundEarth	<1	<1	5.3	<1	0.68
	IW04-20180922	09/22/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW04-20181215	12/15/18	SoundEarth	<1	<1	1.9	<1	1.6
	IW04-20190615	06/15/19	SoundEarth	<1	<1	1.7	<1	1.0
	IW04-20191207	12/07/19	SoundEarth	<1	<1	1.4	<1	1.1
	IW04-20200627	06/27/20	SoundEarth	<1	<1	1.1	<1	0.77
	IW04-20201212	12/12/20	SoundEarth	<1	<1	1.0	<1	0.64
	IW04-20210625	06/25/21	SoundEarth	<1	<1	<1	<1	0.46
	IW04-20211217	12/17/21	SoundEarth	<1	<0.5	1.1	<1	0.34
	IW04-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	0.34
	IW04-20221215	12/15/22	SoundEarth	<1	<0.5	<1	<1	0.28
	IW04-20230622	06/22/23	SoundEarth	<1	<0.5	<1	<1	0.26
	IW04-20231207	12/07/23	SoundEarth	<1	<0.5	<1	<1	<0.2
	Commercial Worker Groundwater Remediation Level at the Property ⁽⁴⁾				120	12	1,600	NA
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽⁴⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾



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Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
IW06	IW06-20150507	05/07/15	SoundEarth	6.3	13	<1	<1	<0.2
	IW06-20180310	03/10/18	SoundEarth	<1	<1	1.6	<1	<0.2
	IW06-20180630	06/30/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW06-20181215	12/15/18	SoundEarth	1.0	<1	<1	<1	<0.2
	IW06-20190615	06/15/19	SoundEarth	1.7	<1	<1	<1	<0.2
	IW06-20191207	12/07/19	SoundEarth	1.4	<1	<1	<1	<0.2
	IW06-20200627	06/27/20	SoundEarth	<1	<1	5.2	<1	<0.2
	IW06-20201212	12/12/20	SoundEarth	<1	<1	3.3	<1	<0.2
	IW06-20210625	06/25/21	SoundEarth	<1	<1	3.6	<1	0.59
	IW06-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<1	<0.2
	IW06-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	IW06-20221215	12/15/22	SoundEarth	1.7	<0.5	<1	<1	<0.02
	IW06-20230622	06/22/23	SoundEarth	1.1	<0.5	<1	<1	<0.02
	IW06-20231207	12/07/23	SoundEarth	1.4	<0.5	<1	<1	<0.2
IW50	IW50-20150803	08/03/15	SoundEarth	4.1	8.1	44	<1	<0.2
	IW50-20151208	12/08/15	SoundEarth	<1	<1	140	<1	1.8
	IW50-20160309	03/09/16	SoundEarth	<1	<1	110	<1	1.9
	IW50-20160715	07/15/16	SoundEarth	3.7	<1	38	<1	2.5
	IW50-20161021	10/21/16	SoundEarth	3.7	<1	23	<1	1.0
	IW50-20170126	01/26/17	SoundEarth	13	2.1	34	<1	0.74
	IW50-20170602	06/02/17	SoundEarth	<1	<1	81	<1	0.95
	IW50-20170924	09/24/17	SoundEarth	<1	<1	26	<1	2.6
	IW50-20171216	12/16/17	SoundEarth	<1	<1	15	<1	2.2
	IW50-20180310	03/10/18	SoundEarth	<1	<1	8.0	<1	3.6
	IW50-20180630	06/30/18	SoundEarth	<1	<1	4.5	<1	2.5
	IW50-20180922	09/22/18	SoundEarth	<1	<1	5.1	<1	2.9
	IW50-20181215	12/15/18	SoundEarth	1.6	<1	15	<1	4.5
	IW50-20190615	06/15/19	SoundEarth	5.2	2.0	54	<1	7.1
	IW50-20191207	12/07/19	SoundEarth	4.5	1.6	55	<1	7.4
	IW50-20200627	06/27/20	SoundEarth	3.9	<1	2.7	<1	1.1
	IW50-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2
	IW50-20210625	06/25/21	SoundEarth	3.7	<1	1.7	<1	0.85
	IW50-20211217	12/17/21	SoundEarth	<1	<0.5	2.9	<1	0.80
	IW50-20220609	06/09/22	SoundEarth	<1	<0.5	6.9	<1	2.4
IW50-20221216	12/16/22	SoundEarth	4.7	2.1	35	<1	6.4	
IW50-20230623	06/23/23	SoundEarth	1.8	0.79	18	<1	5.8	
IW50-20231207	12/07/23	SoundEarth	7.6	3.1	22	<1	5.4	
IW61	IW61-20151208	12/08/15	SoundEarth	10	2.8	120	<1	0.86
	IW61-20160309	03/09/16	SoundEarth	23	4.2	140	<1	1.7
	IW61-20160714	07/14/16	SoundEarth	8.3	1.6	24	<1	1.6
	IW61-20161021	10/21/16	SoundEarth	9.5	2.8	34	<1	0.96
	IW61-20170126	01/26/17	SoundEarth	8.3	2.9	32	<1	0.96
	IW61-20170602	06/02/17	SoundEarth	9.9	3.4	41	<1	1.3
	IW61-20170923	09/23/17	SoundEarth	12	3.2	45	<1	1.2
	IW61-20171216	12/16/17	SoundEarth	15	3.2	65	<1	1.2
	IW61-20180310	03/10/18	SoundEarth	15	2.7	71	<1	1.1
	IW61-20180323*	03/23/18	SoundEarth	15	2.9	82	<1	1.3
	IW61-20180630	06/30/18	SoundEarth	16	2.5	67	<1	1.7
	IW61-20180922	09/22/18	SoundEarth	13	2.1	63	<1	1.8
	IW61-20181215	12/15/18	SoundEarth	15	2.1	58	<1	2.0
	IW61-20190615	06/15/19	SoundEarth	13	2.4	71	<1	2.9
	IW61-20191207	12/07/19	SoundEarth	6.8	1.7	65	<1	4.0
	IW61-20200627	06/27/20	SoundEarth	5.3	1.1	63	<1	4.5
	IW61-20201212	12/12/20	SoundEarth	<1	<1	30	<1	4.1 ⁽³⁾
	IW61-20210625	06/25/21	SoundEarth	<1	<1	25	<20	1.8
	IW61-20211217	12/17/21	SoundEarth	<1	<0.5	41	<1	3.8
	IW61-20220609	06/09/22	SoundEarth	<1	<0.5	25	<1	3.2
	IW61-20221216	12/16/22	SoundEarth	<1	<0.5	57	<1	2.7
	IW61-20230623	06/23/23	SoundEarth	<1	<0.5	36	<1	2.7
	IW61-20231207	12/07/23	SoundEarth	<1	<0.5	41	<1	3.8
Commercial Worker Groundwater Remediation Level at the Property ⁽⁴⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽⁴⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾



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Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
IW91	IW91-20150506	05/06/15	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20150804	08/04/15	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20151208	12/08/15	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20160309	03/09/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20160714	07/14/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20161020	10/20/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20170126	01/26/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20170601	06/01/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20170923	09/23/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20171216	12/16/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20180310	03/10/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20180630	06/30/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20180922	09/22/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20181215	12/15/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20190615	06/15/19	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20191207	12/07/19	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20200627	06/27/20	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2
IW91-20210625	06/25/21	SoundEarth	<1	<1	<1	<1	<0.2	
IW91-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<2	<0.2	
Well not sampled 2022 or 2023								
Boren Avenue North								
MW04	MW04-20110527	05/27/11	SoundEarth	<1	15	<1	<1	<0.2
	MW04-20111012	10/12/11	SoundEarth	<1	15	<1	<1	<0.2
	MW04-20130909	09/09/13	SoundEarth	<1	22	15	<1	<0.2
	MW04-20150508	05/08/15	SoundEarth	1.4	13	4.2	<1	<0.2
	MW04-20150806	08/06/15	SoundEarth	<1	6.9	1.0	<1	<0.2
	MW04-20151209	12/09/15	SoundEarth	<1	9.2	<1	<1	<0.2
	MW04-20160308	03/08/16	SoundEarth	<1	9.6	1.1	<1	<0.2
	MW04-20160713	07/13/16	SoundEarth	1.0	8.9	1.3	<1	<0.2
	MW04-20161019	10/19/16	SoundEarth	<1	5.5	<1	<1	<0.2
	MW04-20170124	01/24/17	SoundEarth	<1	9.4	<1	<1	<0.2
	MW04-20170531	05/31/17	SoundEarth	<1	9.3	<1	<1	<0.2
	MW04-20170921	09/21/17	SoundEarth	<1	5.7	3.2	<1	<0.2
	MW04-20171214	12/14/17	SoundEarth	<1	8.0	2.4	<1	<0.2
	MW04-20180309	03/09/18	SoundEarth	<1	8.6	<1	<1	<0.2
	MW04-20180629	06/29/18	SoundEarth	<1	9.4	<1	<1	<0.2
	MW04-20180920	09/20/18	SoundEarth	<1	9.4	<1	<1	<0.2
	MW04-20181214	12/14/18	SoundEarth	<1	10	<1	<1	<0.2
	MW04-20190614	06/14/19	SoundEarth	<1	11	<1	<1	<0.2
	MW04-20191205	12/05/19	SoundEarth	<1	11	<1	<1	<0.2
	MW04-20200626	06/26/20	SoundEarth	<1	10	<1	<1	<0.2
	MW04-20201211	12/11/20	SoundEarth	<1	9.2	<1	<1	<0.2
	MW04-20210624	06/24/21	SoundEarth	<1	11	<1	<1	<0.2
	MW04-20211215	12/15/21	SoundEarth	<1	7.8	<1	<1	<0.2
	MW04-20220607	06/07/22	SoundEarth	<1	9.2	<1	<1	<0.2
	MW04-20221214	12/14/22	SoundEarth	<1	8.2	<1	<1	<0.2
	MW04-20230622	06/22/23	SoundEarth	<1	9.3	<1	<1	<0.2
MW04-20231208	12/08/23	SoundEarth	<1	9.4	<1	<1	<0.2	
MW05	MW05-20110527	05/27/11	SoundEarth	39	16	1.8	<1	<0.2
	MW05-20111012	10/12/11	SoundEarth	29	14	1.5	<1	<0.2
	MW05-20130910	09/10/13	SoundEarth	21	13	1.9	<1	<0.2
DECOMMISSIONED 2015								
Commercial Worker Groundwater Remediation Level at the Property⁽⁴⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs⁽⁴⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5⁽²⁾	5⁽²⁾	16⁽³⁾	160⁽³⁾	0.2⁽²⁾



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MW07	MW07-20110531	05/31/11	SoundEarth	1.4	12	2.3	<1	<0.2
	MW07-20111012	10/12/11	SoundEarth	2.2	11	1.8	<1	<0.2
	MW07-20130909	09/09/13	SoundEarth	1.5	33	5.4	<1	<0.2
	MW07-20150508	05/08/15	SoundEarth	2.5	15	4.8	<1	<0.2
	MW07-20150805	08/05/15	SoundEarth	1.8	12	3.2	<1	<0.2
	MW07-20151209	12/09/15	SoundEarth	2.3	14	4.1	<1	<0.2
	MW07-20160308	03/08/16	SoundEarth	2.6	13	3.8	<1	<0.2
	MW07-20160713	07/13/16	SoundEarth	3.0	18	5.7	<1	<0.2
	MW07-20161019	10/19/16	SoundEarth	3.5	13	2.3	<1	<0.2
	MW07-20170124	01/24/17	SoundEarth	4.8	8.1	<1	<1	<0.2
	MW07-20170531	05/31/17	SoundEarth	4.7	8.6	<1	<1	<0.2
	MW07-20180308	03/08/18	SoundEarth	2.6	11	1.1	<1	<0.2
	MW07-20180629	06/29/18	SoundEarth	3.3	7.3	<1	<1	<0.2
	MW07-20180920	09/20/18	SoundEarth	2.8	6.0	<1	<1	<0.2
	MW07-20181214	12/14/18	SoundEarth	3.3	6.7	<1	<1	<0.2
	MW07-20190614	06/14/19	SoundEarth	3.9	5.9	<1	<1	<0.2
	MW07-20191205	12/05/19	SoundEarth	3.3	5.9	<1	<1	<0.2
	MW07-20200630	06/30/20	SoundEarth	<1	5.8	<1	<1	<0.2
	MW07-20201210	12/10/20	SoundEarth	1.7	18	3.2	<1	<0.2
	MW07-20210623	06/23/21	SoundEarth	1.8	15	3.4	<1	<0.2
MW07-20211215	12/15/21	SoundEarth	2.0	7.2	<1	<1	<0.2	
MW07-20220607	06/07/22	SoundEarth	2.9	6.5	<1	<1	<0.02	
MW07-20221214	12/14/22	SoundEarth	2.5	5.9	<1	<1	<0.02	
MW07-20230622	06/22/23	SoundEarth	2.4	5.1	<1	<1	<0.02	
MW07-20231208	12/08/23	SoundEarth	2.1	4.8	<1	<1	<0.2	
MW13	MW13-20111020	10/20/11	SoundEarth	5.1	1.2	<1	<1	<0.2
	MW13-20130910	09/10/13	SoundEarth	11	1.4	<1	<1	<0.2
	MW13-20150511	05/11/15	SoundEarth	4.6 ⁽³⁾	1.7 ⁽²⁾	<1 ⁽³⁾	<1 ⁽³⁾	<0.2 ⁽³⁾
	MW13-20150805	08/05/15	SoundEarth	5.4	2.3	<1	<1	<0.2
	MW13-20151215	12/15/15	SoundEarth	5.6	1.6	<1	<1	<0.2
	MW13-20160307	03/07/16	SoundEarth	6.6	1.6	<1	<1	<0.2
	MW13-20160712	07/12/16	SoundEarth	6.5	1.6	<1	<1	<0.2
	MW13-20161019	10/19/16	SoundEarth	10	2.2	<1	<1	<0.2
	MW13-20170124	01/24/17	SoundEarth	6.4	1.0	<1	<1	<0.2
	MW13-20170531	05/31/17	SoundEarth	10	1.5	<1	<1	<0.2
	MW13-20170921	09/21/17	SoundEarth	8.4	1.8	<1	<1	<0.2
	MW13-20171214	12/14/17	SoundEarth	5.2	1.4	<1	<1	<0.2
	MW13-20180308	03/08/18	SoundEarth	8.0	1.4	<1	<1	<0.2
	MW13-20180629	06/29/18	SoundEarth	4.4	<1	<1	<1	<0.2
	MW13-20180920	09/20/18	SoundEarth	6.5	1.3	<1	<1	<0.2
	MW13-20181214	12/14/18	SoundEarth	7.8	1.4	<1	<1	<0.2
	MW13-20190614	06/14/19	SoundEarth	7.0	1.1	<1	<1	<0.2
	MW13-20191205	12/05/19	SoundEarth	7.7	1.1	<1	<1	<0.2
	MW13-20200626	06/26/20	SoundEarth	9.1	1.8	<1	<1	<0.2
	MW13-20201210	12/10/20	SoundEarth	7.2	1.6	<1	<1	<0.2
MW13-20210623	06/23/21	SoundEarth	4.1	<1	<1	<1	<0.2	
MW13-20211216	12/16/21	SoundEarth	5.2	1.0	<1	<1	<0.2	
MW13-20220608	06/08/22	SoundEarth	5.0	0.86	<1	<1	<0.02	
MW13-20221214	12/14/22	SoundEarth	4.8	0.57	<1	<1	<0.02	
MW13-20230622	06/22/23	SoundEarth	4.3	<0.5	<1	<1	<0.02	
MW13-20231206	12/06/23	SoundEarth	5.2	0.67	<1	<1	<0.2	
MW27	MW27-20151210	12/10/15	SoundEarth	<1	21	2.5	<1	<0.2
	MW27-20160307	03/07/16	SoundEarth	<1	21	3.8	<1	<0.2
	MW27-20160713	07/13/16	SoundEarth	<1	18	4.5	<1	<0.2
	MW27-20161019	10/19/16	SoundEarth	<1	23	4.8	<1	<0.2
	MW27-20170124	01/24/17	SoundEarth	<1	33	13	<1	<0.2
	MW27-20170531	05/31/17	SoundEarth	<1	18	5.5	<1	<0.2
	MW27-20170921	09/21/17	SoundEarth	<1	16	4.0	<1	<0.2
	MW27-20171214	12/14/17	SoundEarth	<1	81	4.4	<1	<0.2
	MW27-20171229	12/29/17	SoundEarth	<1	60	3.5	<1	<0.2
	MW27-20180308	03/08/18	SoundEarth	<1	13	<1	<1	<0.2
	MW27-20180628	06/28/18	SoundEarth	<1	37	3.4	<1	<0.2
	MW27-20180920	09/20/18	SoundEarth	<1	21	3.7	<1	<0.2
	MW27-20181214	12/14/18	SoundEarth	<1	17	4.3	<1	<0.2
	MW27-20190614	06/14/19	SoundEarth	<1	14	2.3	<1	<0.2
	MW27-20191205	12/05/19	SoundEarth	<1	15	2.2	<1	<0.2
	MW27-20200626	06/26/20	SoundEarth	<1	30	2.9	<1	<0.2
	MW27-20201210	12/10/20	SoundEarth	<1	69	3.7	<1	<0.2
	MW27-20210623	06/23/21	SoundEarth	<1	80	4.3	<1	<0.2
	MW27-20211215	12/15/21	SoundEarth	<1	28	8.2	<1	<0.2
	MW27-20220608	06/08/22	SoundEarth	<1	16	2.7	<1	<0.02
MW27-20221215	12/15/22	SoundEarth	<1	16	4.6	<1	<0.02	
MW27-20230621	06/21/23	SoundEarth	<1	15	5.3	<1	<0.02	
MW27-20231206	12/06/23	SoundEarth	<1	4.5	<1	<1	<0.2	
Commercial Worker Groundwater Remediation Level at the Property ⁽⁴⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽⁴⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽⁵⁾	5 ⁽⁵⁾	16 ⁽⁵⁾	160 ⁽⁵⁾	0.2 ⁽⁵⁾



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW31	MW31-20191009	10/09/19	SoundEarth	<1	1.8	<1	<1	<0.2
	MW31-20191205	12/05/19	SoundEarth	<1	3.3	<1	<1	<0.2
	MW31-20200701	07/01/20	SoundEarth	<1	12	<1	<1	<0.2
	MW31-20201211	12/11/20	SoundEarth	<1	17	<1	<1	<0.2
	MW31-20210624	06/24/21	SoundEarth	<1	5.0	<1	<1	<0.2
	MW31-20211215	12/15/21	SoundEarth	<1	6.3	<1	<1	<0.2
	MW31-20220607	06/07/22	SoundEarth	<1	4.2	<1	<1	<0.02
	MW31-20221214	12/14/22	SoundEarth	<1	3.5	<1	<1	<0.02
	MW31-2023021	06/21/23	SoundEarth	<1	4.1	<1	<1	<0.02
	MW31-2021206	12/06/23	SoundEarth	<1	2.6	<1	<1	<0.2
Terry Avenue North								
MW15	MW15-20121211	12/11/12	SoundEarth	<1	8.2	<1	<1	<0.2
	MW15-20121221	12/21/12	SoundEarth	<1	7.2	<1	<1	<0.2
	MW15-20130910	09/10/13	SoundEarth	<1	8.6	<1	<1	<0.2
	MW15-20150508	05/08/15	SoundEarth	<1	6.5	<1	<1	<0.2
	MW15-20150805	08/05/15	SoundEarth	<1	5.3	<1	<1	<0.2
	MW15-20151209	12/09/15	SoundEarth	<1	6.8	<1	<1	<0.2
	MW15-20160308	03/08/16	SoundEarth	<1	6.7	<1	<1	<0.2
	MW15-20160713	07/13/16	SoundEarth	<1	5.8	<1	<1	<0.2
	MW15-20161018	10/18/16	SoundEarth	<1	5.3	<1	<1	<0.2
	MW15-20170125	01/25/17	SoundEarth	<1	7.4	<1	<1	<0.2
	MW15-20170531	05/31/17	SoundEarth	<1	7.9	<1	<1	<0.2
	MW15-20170922	09/22/17	SoundEarth	<1	3.9	<1	<1	<0.2
	MW15-20171215	12/15/17	SoundEarth	<1	3.0	<1	<1	<0.2
	MW15-20180309	03/09/18	SoundEarth	<1	3.3	<1	<1	<0.2
	MW15-20180629	06/29/18	SoundEarth	<1	5.1	<1	<1	<0.2
	MW15-20180920	09/20/18	SoundEarth	<1	6.9	<1	<1	<0.2
	MW15-20181214	12/14/18	SoundEarth	<1	7.0	<1	<1	<0.2
	MW15-20190613	06/13/19	SoundEarth	<1	6.8	<1	<1	<0.2
MW15-20191205	12/05/19	SoundEarth	<1	4.9	<1	<1	<0.2	
MW15-20200626	06/26/20	SoundEarth	<1	1.2	<1	<1	<0.2	
MW15-20201211	12/11/20	SoundEarth	<1	<1	<1	<1	<0.2	
WELL DAMAGED 2021								
MW34	MW34-20211216	12/16/21	SoundEarth	<1	5.3	<1	<1	<0.2
	MW34-20220607	06/07/22	SoundEarth	<1	5.9	<1	<1	<0.02
	MW34-20221214	12/14/22	SoundEarth	<1	5.2	<1	<1	<0.02
	MW34-20230621	06/21/23	SoundEarth	<1	4.8	<1	<1	<0.02
	MW34-20231206	12/06/23	SoundEarth	<1	6.4	<1	<1	<0.2
Thomas Street								
MW14	MW14-20111020	10/20/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW14-20130911	09/11/13	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2013								
MW16	MW16-20121211	12/11/12	SoundEarth	16	12	220	<1	0.69
	MW16-20130911	09/11/13	SoundEarth	6.4	5.0	610	<1	1.9
	MW16-20150508	05/08/15	SoundEarth	7.5	7.6	640	<1	2.8
	MW16-20150805	08/05/15	SoundEarth	7.8	7.3	550	<1	2.4
	MW16-20151210	12/10/15	SoundEarth	5.3	4.5	510	<1	3.2
	MW16-20160308	03/08/16	SoundEarth	3.7	2.0	190	<1	1.3
	MW16-20160712	07/12/16	SoundEarth	<1	<1	160	<1	2.0
	MW16-20161019	10/19/16	SoundEarth	5.0	5.4	170	<1	1.2
	MW16-20170125	01/25/17	SoundEarth	6.4	6.8	220	<1	0.98
	MW16-20170531	05/31/17	SoundEarth	5.7	4.4	100	<1	0.49
	MW16-20170922	09/22/17	SoundEarth	5.4	5.2	78	<1	0.40
	MW16-20171229	12/29/17	SoundEarth	7.2	6.4	150	<1	0.89
MW16-20180309	03/09/18	SoundEarth	7.3	5.5	80	<1	0.35	
WELL DAMAGED 2018								
Commercial Worker Groundwater Remediation Level at the Property⁽⁴⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs⁽⁴⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽²⁾



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW28	MW28-20190315	03/15/19	SoundEarth	7.7	4.7	67	<1	0.47
	MW28-20190613	06/13/19	SoundEarth	9.0	5.7	80	<1	0.35
	MW28-20191009	10/09/19	SoundEarth	8.7	6.1	72	<1	0.31
	MW28-20191204	12/04/19	SoundEarth	8.4	4.9	52	<1	0.27
	MW28-20200626	06/26/20	SoundEarth	9.1	5.1	22	<1	<0.2
	MW28-20201211	12/11/20	SoundEarth	8.3	4.9	19	<1	<0.2
	MW28-20210521	05/21/21	SoundEarth	9.2	4.3	17	<1	<0.2
	MW28-20210623	06/23/21	SoundEarth	7.0	3.5	14	<1	<0.2
	MW28-20210817	08/17/21	SoundEarth	7.6	3.9	18	<1	<0.2
	MW28-20210921	09/21/21	SoundEarth	7.5	3.4	15	<1	0.10
	MW28-20211216	12/16/21	SoundEarth	5.2	2.8	17	<1	<0.2
	MW28-20220609	06/09/22	SoundEarth	2.7	1.4	23	<1	0.082
	MW28-20221215	12/15/22	SoundEarth	2.9	1.2	17	<1	0.067
	MW28-20230621	06/21/23	SoundEarth	<1	<0.5	5.6	<1	<0.02
MW28-20231204	12/04/23	SoundEarth	1.6	1.2	10	<1	<0.2	
Fairview Avenue North								
MW-C	MW-C-20130911	09/11/13	SoundEarth	<1	<1	<1	<1	<0.2
Harrison Street								
MW01	MW01-20110525	05/25/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20111011	10/11/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20130910	09/10/13	SoundEarth	<1	1.4	<1	<1	<0.2
	MW01-20150806	08/06/15	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20160308	03/08/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20160712	07/12/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20161018	10/18/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20170124	01/24/17	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20170531	05/31/17	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20171214	12/14/17	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20180309	03/09/18	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20180628	06/28/18	SoundEarth	<1	1.1	<1	<1	<0.2
	MW01-20180920	09/20/18	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20181214	12/14/18	SoundEarth	<1	1.1	<1	<1	<0.2
	MW01-20190614	06/14/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20191205	12/05/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20200626	06/26/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20201211	12/11/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20210624	06/24/21	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20211215	12/15/21	SoundEarth	<1	0.50	<1	<1	<0.2
	MW01-20220607	06/07/22	SoundEarth	<1	0.73	<1	<1	<0.02
MW01-20221214	12/14/22	SoundEarth	<1	<0.5	<1	<1	<0.02	
MW01-20230621	06/21/23	SoundEarth	<1	<0.5	<1	<1	<0.02	
MW01-20231206	12/06/23	SoundEarth	<1	<0.5	<1	<1	<0.2	
MW02	MW02-20110525	05/25/11	SoundEarth	<1	5.2	<1	<1	<0.2
	MW02-20111011	10/11/11	SoundEarth	<1	3.0	<1	<1	<0.2
	MW02-20130911	09/11/13	SoundEarth	<1	3.6	<1	<1	<0.2
DECOMMISSIONED 2015								
MW03	MW03-20110527	05/27/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW03-20111011	10/11/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW03-20130911	09/11/13	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2015								
MW26	MW26-20151210	12/10/15	SoundEarth	<1	11	<1	<1	<0.2
	MW26-20160307	03/07/16	SoundEarth	<1	10	<1	<1	<0.2
	MW26-20160712	07/12/16	SoundEarth	<1	12	<1	<1	<0.2
	MW26-20161018	10/18/16	SoundEarth	<1	12	<1	<1	<0.2
	MW26-20170124	01/24/17	SoundEarth	<1	13	<1	<1	<0.2
	MW26-20170531	05/31/17	SoundEarth	<1	7.9	<1	<1	<0.2
	MW26-20170921	09/21/17	SoundEarth	<1	7.1	<1	<1	<0.2
	MW26-20171214	12/14/17	SoundEarth	<1	15	1.4	<1	<0.2
	MW26-20180309	03/09/18	SoundEarth	<1	6.0	<1	<1	<0.2
	MW26-20180628	06/28/18	SoundEarth	<1	18	<1	<1	<0.2
	MW26-20180920	09/20/18	SoundEarth	<1	18	<1	<1	<0.2
	MW26-20181214	12/14/18	SoundEarth	<1	20	<1	<1	<0.2
	MW26-20190614	06/14/19	SoundEarth	<1	20	<1	<1	<0.2
	MW26-20191205	12/05/19	SoundEarth	<1	13	<1	<1	<0.2
	MW26-20200626	06/26/20	SoundEarth	<1	13	<1	<1	<0.2
	MW26-20201211	12/11/20	SoundEarth	<1	4.0	<1	<1	<0.2
	MW26-20210624	06/24/21	SoundEarth	<1	6.6	<1	<1	<0.2
	MW26-20211215	12/15/21	SoundEarth	<1	7.9	<1	<1	<0.2
	MW26-20220608	06/08/22	SoundEarth	<1	3.5	<1	<1	0.038
	MW26-20221214	12/14/22	SoundEarth	<1	10	<1	<1	<0.2
MW26-20230622	06/22/23	SoundEarth	<1	11	<1	<1	<0.02	
MW26-20231206	12/06/23	SoundEarth	<1	5.8	<1	<1	<0.2	
Commercial Worker Groundwater Remediation Level at the Property⁽⁴⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs⁽⁴⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5⁽²⁾	5⁽²⁾	16⁽³⁾	160⁽³⁾	0.2⁽²⁾



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Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)	
MW32	MW32-20191009	10/09/19	SoundEarth	<1	<1	<1	<1	<0.2	
	MW32-20191205	12/05/19	SoundEarth	<1	<1	<1	<1	<0.2	
	MW32-20200626	06/26/20	SoundEarth	<1	<1	<1	<1	<0.2	
	MW32-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2	
	MW32-20210624	06/24/21	SoundEarth	<1	<1	<1	<1	<0.2	
	MW32-20211215	12/15/21	SoundEarth	<1	<0.5	<1	<1	<0.2	
	MW32-20220607	06/07/22	SoundEarth	<1	<0.5	<1	<1	<0.02	
	MW32-20221214	12/14/22	SoundEarth	<1	<0.5	<1	<1	<0.02	
	MW32-20230621	06/21/23	SoundEarth	<1	<0.5	<1	<1	<0.02	
MW32-20231205	12/05/23	SoundEarth	<1	<0.5	<1	<1	<0.2		
MW33	MW33-20191009	10/09/19	SoundEarth	<1	<1	<1	<1	<0.2	
	MW33-20191205	12/05/19	SoundEarth	<1	<1	<1	<1	<0.2	
	--	06/26/20	SoundEarth	Well dry, unable to sample					
	--	12/10/20	SoundEarth	Well dry, unable to sample					
	MW33-20210624	06/24/21	SoundEarth	<1	<1	<1	<1	<0.2	
	MW33-20211216	12/16/21	SoundEarth	<1	<0.5	<1	<1	<0.2	
	MW33-20220607	06/07/22	SoundEarth	<1	<0.5	<1	<1	<0.02	
	MW33-20221213	12/13/22	SoundEarth	<1	<0.5	<1	<1	<0.02	
	MW33-20230620	06/20/23	SoundEarth	<1	<0.5	<1	<1	<0.02	
MW33-20231205	12/05/23	SoundEarth	<1	<0.5	<1	<1	<0.2		
SMW06	SMW06-20130910	09/10/13	SoundEarth	<1	<1	<1	<1	<0.2	
Westlake Avenue North									
SMW09	SMW09-20130910	09/10/13	SoundEarth	<1	<1	<1	<1	<0.2	
South-Adjoining Property									
MW29	MW29-20191008	10/08/19	SoundEarth	8.6	9.4	52	<1	0.64	
	MW29-20191204	12/04/19	SoundEarth	16	12	26	<1	0.40	
	MW29-20200626	06/26/20	SoundEarth	18	13	16	<1	0.20	
	MW29-20201210	12/10/20	SoundEarth	18	13	18	<1	<0.2	
	MW29-20210622	06/22/21	SoundEarth	14	11	16	<1	<0.2	
	MW29-20211215	12/15/21	SoundEarth	15	12	14	<1	<0.2	
	MW29-20220607	06/07/22	SoundEarth	20	15	10	<1	0.13	
DECOMMISSIONED 2022									
MW30	MW30-20191008	10/08/19	SoundEarth	<1	3.6	24	<1	<0.2	
	MW30-20191204	12/04/19	SoundEarth	<1	2.0	11	<1	<0.2	
	MW30-20200626	06/26/20	SoundEarth	<1	1.0	3.6	<1	<0.2	
	MW30-20201210	12/10/20	SoundEarth	<1	2.4	13	<1	<0.2	
	MW30-20210623	06/23/21	SoundEarth	<1	2.0	7.4	<1	<0.2	
	MW30-20211215	12/15/21	SoundEarth	<1	2.2	5.2	<1	<0.2	
	MW30-20220606	06/06/22	SoundEarth	<1	2.3	3.5	<1	0.029	
DECOMMISSIONED 2022									
ONNI-MW-4	ONNI-MW-4-20191208	12/08/19	SoundEarth	<1	<1	<1	<1	<0.2	
	ONNI-MW-4-20200625	06/25/20	SoundEarth	<1	<1	<1	<1	<0.2	
	ONNI-MW-4-20201210	12/10/20	SoundEarth	<1	<1	<1	<1	<0.2	
	ONNI-MW-4-20210622	06/22/21	SoundEarth	<1	<1	<1	<1	<0.2	
	ONNI-MW-4-20211215	12/15/21	SoundEarth	<1	<0.5	<1	<1	<0.2	
DECOMMISSIONED 2022									
ONNI-MW-5	ONNI-MW-5-20191208	12/08/19	SoundEarth	<1	<1	<1	<1	0.28	
	ONNI-MW-5-20200206	02/06/20	SoundEarth	<1	<1	<1	<1	<0.2	
	ONNI-MW-5-20200625	06/25/20	SoundEarth	<1	<1	<1	<1	<0.2	
	ONNI-MW-5-20201209	12/09/20	SoundEarth	<1	<1	<1	<1	<0.2	
	ONNI-MW-5-20210623	06/23/21	SoundEarth	<1	<1	<1	<1	<0.2	
	ONNI-MW-5-20211214	12/14/21	SoundEarth	<1	<0.5	<1	<1	<0.2	
DECOMMISSIONED 2022									
ONNI-MW-9	ONNI-MW-9-20211214	12/14/21	SoundEarth	<1	<0.5	1.3	<1	<0.2	
	ONNI-MW-9-20220606	06/06/22	SoundEarth	<1	<0.5	<1	<1	<0.02	
DECOMMISSIONED 2022									
MW29R	MW29R-20230824	8/24/2023	SoundEarth	18	11	33	<1	<0.2	
	MW29R-2024	01/05/24	SoundEarth	8.5	2.2	2.3	<1	<0.2	
MW35	MW35-20230824	8/24/2023	SoundEarth	<1	<0.5	<1	<1	<0.2	
	MW35-2024	01/05/24	SoundEarth	1.4	<0.5	<1	<1	<0.2	
Commercial Worker Groundwater Remediation Level at the Property⁽⁴⁾				120	12	1,600	NA	1.6	
Roadway Excavation Worker Groundwater Remediation Level in ROWs⁽⁴⁾				760	40	10,000	NA	9.9	
MTCA Cleanup Level				5⁽²⁾	5⁽²⁾	16⁽³⁾	160⁽³⁾	0.2⁽²⁾	



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
North-Adjoining Property								
SLU-MW01	MW01-20120229	02/29/12 ⁽⁵⁾	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2013								
SLU-MW02	MW02-20120229	02/29/12 ⁽⁵⁾	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2013								
Commercial Worker Groundwater Remediation Level at the Property⁽⁴⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs⁽⁴⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5⁽²⁾	5⁽²⁾	16⁽³⁾	160⁽³⁾	0.2⁽²⁾

NOTES:

Red denotes concentrations exceeding the MTCA Method cleanup level for groundwater.

Blue shading indicates concentrations exceeding the Commercial Worker Groundwater remediation level at the Property.

Yellow shading indicates concentrations exceeding the Roadway Excavation Worker Groundwater Remediation Level in ROWs.

⁽¹⁾Analyzed by EPA Method 8260C, 8021B, or 8240.

⁽²⁾MTCA Method A Cleanup Levels, Table 720-1 of WAC 173-340-900.

⁽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/CLARHome.aspx>>.

⁽⁴⁾Table values in CLARC, Ecology's Guidance for Evaluating Vapor Intrusion in Washington State: Investigation and Remedial Action dated 2009, revised 2022, and Ecology's South Lake Union Group Memorandum, dated December 14, 2022.

⁽⁵⁾Sample data compiled from reports on file at the Washington State Department of Ecology.

Laboratory Notes:

^(a)The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

^(b)The sample was centrifuged prior to analysis.

^(c)Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

^(d)The sample was collected with a passive diffusion bag.

< = not detected at a concentration exceeding laboratory reporting limit

µg/L = micrograms per liter

CLARC = Cleanup Levels and Risk Calculations

CVOC = chlorinated volatile organic compound

DCE = dichloroethene

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethene

SoundEarth = SoundEarth Strategies, Inc.

TCE = trichloroethene

WAC = Washington Administrative Code



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
Troy Laundry Property										
MW06	MW06-20110531	05/31/11	SoundEarth	330 [†]	<250	<100	<1	<1	<1	<3
	MW06-20111011	10/10/11	SoundEarth	83 [*]	<250	<100	<1	<1	<1	<3
	MW06-20130909	09/09/13	SoundEarth	150 [†]	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW08	MW08-20111013	10/13/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW08-20130910	09/10/13	SoundEarth	120 [†]	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW09	MW09-20111013	10/13/11	SoundEarth	240 [†]	<250	1,400	<1	<1	2.7	10
	MW09-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW10	MW10-20111012	10/12/11	SoundEarth	68 [*]	<250	<100	<1	<1	<1	<3
	MW10-20130909	09/09/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW11	MW11-20111013	10/13/11	SoundEarth	110 [†]	<250	<100	<1	<1	<1	<3
	MW11-20130909	09/09/13	SoundEarth	97 [*]	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW12	MW12-20111017	10/17/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW12-20130909	09/09/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW17	MW17-20150506	05/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20150804	08/04/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20151207	12/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20160714	07/14/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20161020	10/20/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20170126	01/26/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20170601	06/01/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20170923	09/23/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20171216	12/16/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20180310	03/10/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20180630	06/30/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	MW17-20180922	09/22/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20181215	12/15/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW17-20190615	06/15/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW17-20191207	12/07/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW17-20200627	06/27/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW18	MW18-20150506	05/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20150803	08/03/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20151208	12/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20160714	07/14/16	SoundEarth	31,000 ^{x, ip}	5,100 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW18-20161020	10/20/16	SoundEarth	61,000 ^{x, ip}	<8,400 ^{x, ip}	1,100 ^x	<0.35	<1	<1	<3
	MW18-20170126	01/26/17	SoundEarth	22,000 ^{x, ip}	3,500 ^{x, ip}	840	<0.35	<1	<1	<3
	MW18-20170601	06/01/17	SoundEarth	77,000 ^{x, ip}	1,600 ^{x, ip}	470	<0.35	<1	<1	<3
	MW18-20170923	09/23/17	SoundEarth	34,000 ^x	<3,500	210	<0.35	<1	<1	<3
	MW18-20171216	12/16/17	SoundEarth	18,000 ^{x, ip}	<2,500 ^p	380	<0.35	<1	<1	<3
	MW18-20180310	03/10/18	SoundEarth	6,000 ^x	<2,500	390	<1	1.3	<1	<3
	MW18-20180630	06/30/18	SoundEarth	12,000 ^x	1,600 ^x	230	<1	1.3	<1	12
	MW18-20180922	09/22/18	SoundEarth	1,400 ^{x, ip}	<2,500 ^p	290	<1	<1	<1	6.9
	MW18-20181215	12/15/18	SoundEarth	1,600 ^x	490 ^x	<100	<1	<1	<1	<3
MW18-20190615	06/15/19	SoundEarth	1,100 ^x	830 ^x	<100	<1	<1	<1	<3	
MW18-20191207	12/07/19	SoundEarth	830 ^x	480 ^x	<100	<1	<1	<1	<3	
MW18-20200627	06/27/20	SoundEarth	260 ^x	<250	<100	<1	<1	<1	<3	
MW19	MW19-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW19-20150803	08/03/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW19-20151207	12/07/15	SoundEarth	85 ^x	<250	<100	<0.35	<1	<1	<3
	MW19-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW19-20160713	07/13/16	SoundEarth	21,000 ^{x, ip}	4,100 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW19-20161021	10/21/16	SoundEarth	18,000 ^{x, ip}	2,300 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW19-20170125	01/25/17	SoundEarth	29,000 ^x	4,400 ^x	210 ^x	<0.35	<1	<1	<3
	MW19-20170601	06/01/17	SoundEarth	31,000 ^{x, ip}	3,400 ^{x, ip}	180	<0.35	<1	<1	<3
	MW19-20170923	09/23/17	SoundEarth	27,000 ^{x, ip}	<3,000 ^p	150	<0.35	<1	<1	<3
	MW19-20171216	12/16/17	SoundEarth	9,700 ^{x, ip}	<2,500 ^p	470	<0.35	<1	<1	<3
	MW19-20180310	03/10/18	SoundEarth	1,600 ^x	<2,500	250	<1	<1	<1	<3
	MW19-20180630	06/30/18	SoundEarth	13,000 ^x	820 ^x	310	<1	<1	<1	9.6
	MW19-20180922	09/22/18	SoundEarth	3,300 ^{x, ip}	<2,500 ^p	300	<1	<1	<1	5.0
	MW19-20190615	06/15/19	SoundEarth	650 ^x	430 ^x	<100	<1	<1	<1	<3
MW19-20191207	12/07/19	SoundEarth	610 ^x	690 ^x	<100	<1	<1	<1	<3	
MW19-20200627	06/27/20	SoundEarth	150 ^x	380 ^x	<100	<1	<1	<1	<3	
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800^{(4) (5)}	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



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Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW20	MW20-20150506	05/06/15	SoundEarth	120 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20150803	08/03/15	SoundEarth	140 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20151207	12/07/15	SoundEarth	84 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20160309	03/09/16	SoundEarth	130 ^x	<300	<100	<0.35	<1	<1	<3
	MW20-20160715	07/15/16	SoundEarth	150 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20161020	10/20/16	SoundEarth	110 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20170125	01/25/17	SoundEarth	64 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20170601	06/01/17	SoundEarth	94 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20170924	09/24/17	SoundEarth	130 ^x	<300	<100	<0.35	<1	<1	<3
	MW20-20171216	12/16/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW20-20180310	03/10/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW20-20180630	06/30/18	SoundEarth	120 ^x	<250	<100	<1	<1	<1	<3
	MW20-20180922	09/22/18	SoundEarth	100 ^x	<250	<100	<1	<1	<1	<3
	MW20-20181215	12/15/18	SoundEarth	72 ^x	<250	<100	<1	<1	<1	<3
MW20-20190615	06/15/19	SoundEarth	140 ^x	<250	<100	<1	<1	<1	<3	
MW20-20191207	12/07/19	SoundEarth	80 ^x	<250	<100	<1	<1	<1	<3	
MW20-20200627	06/27/20	SoundEarth	91 ^x	<250	<100	<1	<1	<1	<3	
MW21	MW21-20150506	05/06/15	SoundEarth	160 ^x	<250	<100	<0.35	<1	<1	<3
	MW21-20150804	08/04/15	SoundEarth	150 ^x	<250	<100	<0.35	<1	<1	<3
	MW21-20151208	12/08/15	SoundEarth	110 ^x	<250	<100	<0.35	<1	<1	<3
	MW21-20160309	03/09/16	SoundEarth	120 ^x	<250	<100	<0.35	<1	<1	<3
	MW21-20160713	07/13/16	SoundEarth	12,000 ^x	2,700 ^x	<100	<0.35	<1	<1	<3
	MW21-20161020	10/20/16	SoundEarth	77,000 ^{x,ip}	8,600 ^{x,ip}	<100	<0.35	<1	<1	<3
	MW21-20170126	01/26/17	SoundEarth	16,000 ^{x,ip}	10,000 ^{x,ip}	<100	<0.35	<1	<1	<3
	MW21-20170601	06/01/17	SoundEarth	48,000 ^{x,ip}	18,000 ^{x,ip}	130	<0.35	<1	<1	<3
	MW21-20170923	09/23/17	SoundEarth	67,000 ^{x,ip}	7,700 ^{x,ip}	220	<0.35	<1	<1	<3
	MW21-20171216	12/16/17	SoundEarth	27,000 ^x	<2,500	390	<0.35	<1	<1	<3
	MW21-20180310	03/10/18	SoundEarth	23,000 ^x	<2,500	130	<1	<1	<1	<3
	MW21-2018630	06/30/18	SoundEarth	65,000 ^{x,ip}	5,200 ^{x,ip}	670	<1	3.0	11	11
	MW21-20180922	09/22/18	SoundEarth	53,000 ^{x,ip}	8,600 ^{x,ip}	400	<1	<1	<1	3.4
	MW21-20181215	12/15/18	SoundEarth	47,000 ^x	2,100 ^x	180	<1	<1	<1	6.5
	MW21-20190615	06/15/19	SoundEarth	6,400 ^x	<2,500	<100	<1	<1	<1	3.8
	MW21-20191207	12/07/19	SoundEarth	21,000 ^x	2,100 ^x	300	<1	<1	<1	4.8
	MW21-20200627	06/27/20	SoundEarth	120,000 ^x	3,500 ^{x,ip}	1,100	1.8	5.9	<1	19
	MW21-20201212	12/12/20	SoundEarth	36,000 ^x	6,500 ^x	460	--	--	--	--
	MW21-20210625	06/25/21	SoundEarth	74,000 ^{x,ve}	5,400 ^x	1,000	--	--	--	--
	MW21-20211217	12/17/21	SoundEarth	48,000 ^x	5,800 ^x	<1,000	--	--	--	--
MW21-20220609	06/09/22	SoundEarth	47,000 ^x	3,700 ^x	210	--	--	--	--	
MW21-20221215	12/15/22	SoundEarth	14,000 ^x	4,200 ^x	200	--	--	--	--	
MW21-20230623	06/23/23	SoundEarth	5,900 ^x	3,800 ^x	<100	--	--	--	--	
MW21-20231207	12/07/23	SoundEarth	8,500 ^x	4,400 ^x	<100	--	--	--	--	
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



Table 3
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300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW22	MW22-20150506	05/06/15	SoundEarth	97 ^x	<250	<100	<0.35	<1	<1	<3
	MW22-20150804	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW22-20151208	12/08/15	SoundEarth	69 ^x	<300	<100	<0.35	<1	<1	<3
	MW22-20160308	03/08/16	SoundEarth	110 ^x	<250	<100	<0.35	<1	<1	<3
	MW22-20160713	07/13/16	SoundEarth	8,000 ^{x, ip}	2,100 ^{x, ip}	140	<0.35	<1	<1	<3
	MW22-20161020	10/20/16	SoundEarth	29,000 ^{x, ip}	7,500 ^{x, ip}	130	<0.35	<1	<1	<3
	MW22-20170126	01/26/17	SoundEarth	13,000 ^{x, ip}	13,000 ^{x, ip}	730	<0.35	<1	<1	<3
	MW22-20170601	06/01/17	SoundEarth	59,000 ^x	8,700 ^x	660	<0.35	<1	<1	<3
	MW22-20170923	09/23/17	SoundEarth	85,000 ^{x, ip}	<2,500 ^{ip}	390	<0.35	<1	<1	<3
	MW22-20171216	12/16/17	SoundEarth	58,000 ^{x, ip}	<3,000 ^{ip}	1,800	<0.35	<1	<1	<3
	MW22-20180310	03/10/18	SoundEarth	50,000 ^x	<2,500	530	<0.35	<1	<1	10
	MW22-20180630	06/30/18	SoundEarth	86,000 ^{x, ip}	4,500 ^{x, ip}	620	<1	<1	<1	34
	MW22-20180922	09/22/18	SoundEarth	73,000 ^{x, ip}	6,800 ^{x, ip}	320	<1	<1	<1	21
	MW22-20181215	12/15/18	SoundEarth	49,000 ^x	7,700 ^x	180	<1	<1	<1	14
	MW22-20190615	06/15/19	SoundEarth	24,000 ^x	4,600 ^x	170	<1	<1	<1	21
	MW22-20191207	12/07/19	SoundEarth	40,000 ^x	3,400 ^x	810	<1	<1	<1	74
	MW22-20200627	06/27/20	SoundEarth	25,000 ^x	1,100 ^x	340	<1	<1	<1	4.3
	MW22-20201212	12/12/20	SoundEarth	12,000 ^x	4,100 ^x	570	--	--	--	--
	MW22-20210625	06/25/21	SoundEarth	20,000 ^x	1,800 ^x	540	--	--	--	--
	MW22-20211217	12/17/21	SoundEarth	47,000 ^x	5,700 ^x	<1,000	--	--	--	--
MW22-20220609	06/09/22	SoundEarth	7,800 ^x	630 ^x	<100	--	--	--	--	
MW22-20221216	12/16/22	SoundEarth	12,000 ^x	2,200 ^x	150	--	--	--	--	
MW22-20230623	06/23/23	SoundEarth	2,900 ^x	1,500 ^x	120	--	--	--	--	
MW22-20231207	12/07/23	SoundEarth	3,100 ^x	720 ^x	<100	--	--	--	--	
MW23	MW23-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW23-20150804	08/04/15	SoundEarth	520 ^x	<250	<100	<0.35	<1	<1	<3
	MW23-20151208	12/08/15	SoundEarth	190 ^x	<300	<100	<0.35	<1	<1	<3
	MW23-20160308	03/08/16	SoundEarth	410 ^x	<250	<100	<0.35	<1	<1	<3
	MW23-20160714	07/14/16	SoundEarth	26,000 ^{x, ip}	1,500 ^{x, ip}	190	<0.35	<1	<1	<3
	MW23-20161020	10/20/16	SoundEarth	80,000 ^{x, ip}	<5,000 ^{ip}	350	<0.35	<1	<1	<3
	MW23-20170126	01/26/17	SoundEarth	14,000 ^{x, ip}	5,600 ^{x, ip}	240	<0.35	<1	<1	<3
	MW23-20170601	06/01/17	SoundEarth	140,000 ^{x, ip}	4,000 ^{x, ip}	210	<0.35	<1	<1	<3
	MW23-20170923	09/23/17	SoundEarth	140,000 ^x	<2,500	170	<0.35	<1	<1	<3
	MW23-20171216	12/16/17	SoundEarth	110,000 ^{x, ip}	<2,500 ^{ip}	2,200	<0.35	<1	<1	<3
	MW23-20180310	03/10/18	SoundEarth	11,000 ^x	<2,500	600	<1	<1	<1	4.6
	MW23-20180630	06/30/18	SoundEarth	30,000 ^x	1,000 ^x	540	<1	<1	<1	31
	MW23-20180922	09/22/18	SoundEarth	19,000 ^{x, ip}	<2,600 ^{ip}	150	<1	<1	<1	11
	MW23-20181215	12/15/18	SoundEarth	14,000 ^x	500 ^x	180	<1	<1	<1	7.1
	MW23-20190615	06/15/19	SoundEarth	3,400 ^x	<2,500	260	<1	<1	<1	7.1
	MW23-20191207	12/07/19	SoundEarth	1,400 ^x	790 ^x	<100	<1	<1	<1	<3
MW23-20200627	06/27/20	SoundEarth	360 ^x	<250	<100	<1	<1	<1	<3	
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



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Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW24	MW24-20150506	05/06/15	SoundEarth	93 ^x	<250	<100	<0.35	<1	<1	<3
	MW24-20150804	08/04/15	SoundEarth	94 ^x	<250	<100	<0.35	<1	<1	<3
	MW24-20151208	12/08/15	SoundEarth	240 ^x	<250	<100	<0.35	<1	<1	<3
	MW24-20160309	03/09/16	SoundEarth	130 ^x	<250	<100	<0.35	<1	<1	<3
	MW24-20160715	07/15/16	SoundEarth	13,000 ^{x, ip}	1,400 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW98-20160715 (DUP)		SoundEarth	11,000 ^{x, ip}	1,900 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW24-20161020	10/20/16	SoundEarth	3,200 ^{x, ip}	1,900 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW24-20170125	01/25/17	SoundEarth	12,000 ^x	2,000 ^x	<100	<0.35	<1	<1	<3
	MW24-20170601	06/01/17	SoundEarth	510,000 ^{x, ip}	27,000 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW24-20170601	09/24/17	SoundEarth	39,000 ^{x, ip}	<3,000 ^p	250	<0.35	<1	<1	<3
	MW24-20171216	12/16/17	SoundEarth	10,000 ^x	<3,000	990	<0.35	<1	<1	<3
	MW24-20180310	03/10/18	SoundEarth	990 ^x	<2,500	460	<1	<1	<1	3.7
	MW24-20180630	06/30/18	SoundEarth	75,000 ^{x, ip}	7,700 ^{x, ip}	2,700	<1	3.6	6.5	110
	MW24-20180922	09/22/18	SoundEarth	7,800 ^{x, ip}	<2,500 ^p	190	<1	<1	<1	7.5
	MW24-20181215	12/15/18	SoundEarth	20,000 ^x	2,700 ^x	<100	<1	<1	<1	<3
MW24-20190615	06/15/19	SoundEarth	6,400 ^x	<2,500	<100	<1	<1	<1	<3	
MW24-20191207	12/07/19	SoundEarth	7,100 ^x	1,400 ^x	<100	<1	<1	<1	<3	
MW24-20200627	06/27/20	SoundEarth	700 ^{x, ip}	570 ^{x, ip}	<100	<1	<1	<1	<3	
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



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MW25	MW25-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW99-20150507 (DUP)			<50	<250	<100	<0.35	<1	<1	<3
	MW25-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW99-20150805 (DUP)			<50	<250	<100	<0.35	<1	<1	<3
	MW25-20151209	12/09/15	SoundEarth	86 ^x	<250	<100	<0.35	<1	<1	<3
	MW99-20151209 (DUP)			100 ^x	<300	<100	<0.35	<1	<1	<3
	MW25-20160308	03/08/16	SoundEarth	190 ^t	<250	<100	<0.35	<1	<1	<3
	MW99-20160308 (DUP)			160 ^t	<250	<100	<0.35	<1	<1	<3
	MW25-20160713	07/13/16	SoundEarth	43,000 ^x	5,000 ^x	110	<0.35	<1	<1	<3
	MW25-20161019	10/19/16	SoundEarth	26,000 ^x	1,500 ^x	160	--	--	--	--
	MW99-20161019 (DUP)			29,000 ^x	1,600 ^x	160	--	--	--	--
	MW25-20170125	01/25/17	SoundEarth	8,200 ^x	340 ^x	120 ^x	<0.35	<1	<1	<3
	MW99-20170125 (DUP)			6,900 ^x	350 ^x	150 ^x	<0.35	<1	<1	<3
	MW25-20170601	06/01/17	SoundEarth	50,000 ^{x, ip}	<1,000 ^{ip}	370	<0.35	<1	<1	<3
	MW99-20170601 (DUP)			46,000 ^{x, ip}	<1,000 ^{ip}	410	<0.35	<1	<1	<3
	MW25-20170923	09/23/17	SoundEarth	12,000 ^{x, ip}	<2,500 ^{ip}	270	<0.35	<1	<1	<3
	MW99-20170923 (DUP)			13,000 ^{x, ip}	<2,500 ^{ip}	220	<0.35	<1	<1	<3
	MW25-20171216	12/16/17	SoundEarth	4,000 ^{x, ip}	<3,000 ^{ip}	580	<0.35	<1	<1	<3
	MW99-20171216 (DUP)			4,000 ^{x, ip}	<3,000 ^{ip}	700	<0.35	<1	<1	<3
	MW25-20180310	03/10/18	SoundEarth	3,300 ^x	<2,500	490	<1	<1	<1	4.7
	MW99-20180310 (DUP)			3,800 ^x	<2,500	510	<1	<1	<1	4.5
	MW25-20180630	06/30/18	SoundEarth	5,300 ^{x, ip}	630 ^{x, ip}	490	<1	<1	<1	31
	MW99-20180630 (DUP)			5,500 ^{x, ip}	410 ^{x, ip}	340	<1	<1	<1	26
	MW25-20180922	09/22/18	SoundEarth	1,500 ^{x, ip}	<2,500 ^{ip}	300	<1	<1	<1	17
	MW99-20180922 (DUP)			1,900 ^{x, ip}	<2,500 ^{ip}	160	<1	<1	<1	13
	MW25-20181215	12/15/18	SoundEarth	1,100 ^x	<250	<100	<1	<1	<1	<3
	MW99-20181215 (DUP)			960 ^x	<250	<100	<1	<1	<1	<3
	MW25-20190615	06/15/19	SoundEarth	1,000 ^x	<2,500	<100	<1	<1	<1	<3
MW99-20190615 (DUP)	1,100 ^x			<2,500	<100	<1	<1	<1	<3	
MW25-20191207	12/07/19	SoundEarth	240 ^t	<250	<100	<1	<1	<1	<3	
MW99-20191207 (DUP)			300 ^t	<250	<100	<1	<1	<1	<3	
MW25-20200627	06/27/20	SoundEarth	130 ^t	<250	<100	<1	<1	<1	<3	
MW99-20200627 (DUP)			190 ^t	<250	<100	<1	<1	<1	<3	
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



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IW04	IW04-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW04-20170601	06/01/17	SoundEarth	--	--	--	<0.35	<1	<1	<3
IW06	IW06-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
IW50	IW50-20150803	08/03/15	SoundEarth	5,000 ^x	<250	<100	<0.35	<1	<1	<3
	IW50-20160715	07/15/16	SoundEarth	39,000 ^x	1,900 ^x	640	<0.35	<1	<1	<3
IW91	IW91-20150506	05/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20150804	08/04/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20151208	12/08/15	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	IW91-20160309	03/09/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20160714	07/14/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20161020	10/20/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20170126	01/26/17	SoundEarth	200 [†]	<300	<100	<0.35	<1	<1	<3
	IW91-20170601	06/01/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20170923	09/23/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20171216	12/16/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20180310	03/10/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	IW91-20180630	06/30/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	IW91-20180922	09/22/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	IW91-20181215	12/15/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	IW91-20190615	06/15/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
IW91-20191207	12/07/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
IW91-20200627	06/27/20	SoundEarth	60 [†]	<250	<100	<1	<1	<1	<3	
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



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Boren Avenue North										
MW04	MW04-20110527	05/27/11	SoundEarth	<50	<250	<100	<1	1.3	<1	<3
	MW04-20111012	10/12/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20130909	09/09/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20150806	08/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20151209	12/09/15	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW04-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20160713	07/13/16	SoundEarth	<56	<280	<100	<0.35	<1	<1	<3
	MW04-20161019	10/19/16	SoundEarth	<50	<250	<100	--	--	--	--
	MW04-20170124	01/24/17	SoundEarth	150 ⁷	<250	<100	<0.35	<1	<1	<3
	MW04-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20170921	09/21/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20171214	12/14/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW04-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20180629	06/29/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW04-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW04-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW04-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW04-20200626	06/26/20	SoundEarth	130 ⁸	<250	<100	<1	<1	<1	<3	
MW05	MW05-20110527	05/27/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW05-20111012	10/12/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW05-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2015										
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



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MW07	MW07-20110531	05/31/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW07-20111012	10/12/11	SoundEarth	240 ^f	<250	<100	<1	<1	<1	<3
	MW07-20130909	09/09/13	SoundEarth	120 ^f	<250	<100	<1	<1	<1	<3
	MW07-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20151209	12/09/15	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW07-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20160713	07/13/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20161019	10/19/16	SoundEarth	76 ^x	<250	<100	--	--	--	--
	MW07-20170124	01/24/17	SoundEarth	120 ^f	<250	<100	<0.35	<1	<1	<3
	MW07-20170531	05/31/17	SoundEarth	54 ^x	<250	<100	<0.35	<1	<1	<3
	MW07-20180308	03/08/18	SoundEarth	<50	<250	<100	<1	<1	<1	<1
	MW07-20180629	06/29/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	MW07-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW07-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW07-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW07-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW07-20200630	06/30/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW13	MW13-20111020	10/20/11	SoundEarth	150 ^f	<250	<100	<1	<1	<1	<3
	MW13-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20150511	05/11/15	SoundEarth	<70	<350	<100	<0.35 ^{ef}	<1 ^{ef}	<1 ^{ef}	<3 ^{ef}
	MW13-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20151215	12/15/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20160307	03/07/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20160712	07/12/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20161019	10/19/16	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20170124	01/24/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20170921	09/21/17	SoundEarth	120 ^f	<300	<100	<0.35	<1	<1	<3
	MW13-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20180308	03/08/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20180629	06/29/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20200626	06/26/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20201210	12/10/20	SoundEarth	80 ^x	<250	<100	<1	<1	<1	<3
	MW13-20210623	06/23/21	SoundEarth	100 ^f	<300	<100	<1	<1	<1	<3
	MW13-20211216	12/16/21	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20220608	06/08/22	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20221214	12/14/22	SoundEarth	88 ^x	<280	<100	--	--	--	--
MW13-20230622	06/22/23	SoundEarth	<50	<250	<100	--	--	--	--	
MW13-20231206	12/06/23	SoundEarth	<50	<250	<100	--	--	--	--	
MTCA Cleanup Level				500^(d)	500^(d)	1,000/800^{(d)(5)}	5^(d)	1,000^(d)	700^(d)	1,000^(d)



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW27	MW27-20151210	12/10/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20160307	03/07/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20160713	07/13/16	SoundEarth	<52	<260	<100	<0.35	<1	<1	<3
	MW27-20161019	10/19/16	SoundEarth	<50	<250	<100	--	--	--	--
	MW27-20170124	01/24/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW27-20170531	05/31/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW27-20170921	09/21/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20180308	03/08/18	SoundEarth	540 [*]	<250	<100	<1	<1	<1	<3
	MW27-20180628	06/28/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	MW27-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW27-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW27-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW27-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW27-20200626	06/26/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
Terry Avenue North										
MW15	MW15-20121211	12/11/12	SoundEarth	--	--	<100	<0.35	<1	<1	<3
	MW15-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20151209	12/09/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20160713	07/13/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20161018	10/18/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20170125	01/25/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20170922	09/22/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW15-20171215	12/15/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20180629	06/29/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20190613	06/13/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW15-20191205	12/05/19	SoundEarth	78 ^x	<250	<100	<1	<1	<1	<3	
MW15-20200626	06/26/20	SoundEarth	<52	<250	<100	<1	<1	<1	<3	
Well Damaged 2021										
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
Thomas Street										
MW14	MW14-20111020	10/20/11	SoundEarth	160 [†]	<250	<100	<1	<1	<1	<3
	MW14-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED										
MW16	MW16-20121211	12/11/12	SoundEarth	420 [†]	<250	640	<0.35	<1	<1	1.1
	MW16-20130911	09/11/13	SoundEarth	170 [†]	<250	110	<1	<1	<1	<3
	MW16-20150508	05/08/15	SoundEarth	150 [†]	<250	<100	<0.35	<1	<1	<3
	MW16-20150805	08/05/15	SoundEarth	210 [†]	<250	<100	<0.35	<1	<1	<3
	MW16-20151210	12/10/15	SoundEarth	420 [†]	<250	110	<0.35	<1	<1	<3
	MW16-20160308	03/08/16	SoundEarth	410 [†]	<250	140	<0.35	<1	<1	<3
	MW16-20160712	07/12/16	SoundEarth	510 [†]	<250	130	<0.35	<1	<1	<3
	MW16-20161019	10/19/16	SoundEarth	310 [†]	<250	<100	--	--	--	--
	MW16-20170125	01/25/17	SoundEarth	140 [†]	<250	<100	<0.35	<1	<1	<3
	MW16-20170531	05/31/17	SoundEarth	740 [†]	<250	140	<0.35	<1	<1	<3
	MW16-20170922	09/22/17	SoundEarth	570 [†]	<250	130	<0.35	<1	<1	<3
	MW16-20171229	12/29/17	SoundEarth	160 [†]	<250	120	<0.35	<1	<1	<3
MW16-20180309	03/09/18	SoundEarth	260 [†]	<250	120	<1	<1	<1	<3	
WELL DAMAGED 2018										
MW28	MW28-20190613	06/13/19	SoundEarth	140 [†]	<250	160	<1	<1	<1	<3
	MW28-20191205	12/05/19	SoundEarth	98 [†]	<250	150	<1	<1	<1	<3
	MW28-20200626	06/26/20	SoundEarth	120 [†]	<250	140	<1	<1	<1	<3
	MW28-20201211	12/11/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW28-20210623	06/23/21	SoundEarth	120 [†]	<250	<100	<1	<1	<1	<3
	MW28-20211216	12/16/21	SoundEarth	190 [†]	600	<100	--	--	--	--
	MW28-20220609	06/09/22	SoundEarth	190	350	<100	--	--	--	--
	MW28-20221215	12/15/22	SoundEarth	160 [†]	<260	<100	<0.35	<1	<1	<3
	MW28-20230621	06/21/23	SoundEarth	67 [†]	<250	<100	--	--	--	--
MW28-20231204	12/04/23	SoundEarth	54 [†]	<250	<100	--	--	--	--	
Fairview Avenue North										
MW-C	MW-C-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
Harrison Street										
MW01	MW01-20110525	05/25/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20111011	10/11/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20150806	08/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20160308	03/08/16	SoundEarth	<65	<330	<100	<0.35	<1	<1	<3
	MW01-20160712	07/12/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20161018	10/18/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20170124	01/24/17	SoundEarth	<25	<125	<100	<0.35	<1	<1	<3
	MW01-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20180628	06/28/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW01-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW01-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW01-20200626	06/26/20	SoundEarth	57*	<250	<100	<1	<1	<1	<3	
MW02	MW02-20110525	05/25/11	SoundEarth	100*	<250	<100	<1	<1	<1	<3
	MW02-20111011	10/11/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW02-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2015										
MW03	MW03-20110527	05/27/11	SoundEarth	130*	<250	<100	<1	<1	<1	<3
	MW03-20111011	10/11/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW03-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2015										
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW26	MW26-20151210	12/10/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20160307	03/07/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20160712	07/12/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20161018	10/18/16	SoundEarth	59 ^x	<250	<100	<0.35	<1	<1	<3
	MW26-20170124	01/24/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW26-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20170921	09/21/17	SoundEarth	130 [*]	<250	<100	<0.35	<1	<1	<3
	MW26-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20180628	06/28/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW26-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
MW26-20191205	12/05/19	SoundEarth	680 [*]	<250	<100	<1	<1	<1	<3	
MW26-20200626	06/26/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3	
SMW06	SMW06-20130910	09/10/13	SoundEarth	130 [*]	<250	400	<1	<1	3.5	3.7
Westlake Avenue North										
SMW09	SMW09-20130910	09/10/13	SoundEarth	79 ^x	<250	<100	<1	<1	<1	<3
North-Adjoining Property										
SLU-MW01	MW01-20120229	02/29/12 ⁽⁶⁾	SoundEarth	150	<250	--	--	--	--	--
	DECOMMISSIONED 2013									
SLU-MW02	MW02-20120229	02/29/12 ⁽⁶⁾	SoundEarth	<50	<250	--	--	--	--	--
	DECOMMISSIONED 2013									
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾

NOTES:

Red denotes concentrations exceeding the MTCA Method cleanup level for groundwater.

⁽¹⁾Analyzed by Method NWTPH-Dx. The supply well samples collected in August 2010 were passed through a silica gel column prior to analysis to remove organic interference.

⁽²⁾Analyzed by EPA Method 418.1 or Method NWTPH-Gx.

⁽³⁾Analyzed by EPA Method 8260C, 8021B, or 8240.

⁽⁴⁾MTCA Method A Cleanup Levels, Table 720-1 of WAC 173-340-900.

⁽⁵⁾1,000 µg/L when benzene is not present and 800 µg/L when benzene is present.

⁽⁶⁾Sample data compiled from reports on file at the Washington State Department of Ecology.

Laboratory Notes:

^xThe sample was centrifuged prior to analysis.

^{*}Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

^{*}The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

^{*}The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

-- = not analyzed, measured, or calculated

< = not detected at a concentration exceeding laboratory reporting limit

µg/L = micrograms per liter

DRPH = diesel-range petroleum hydrocarbons

EPA = US Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = heavy oil-range petroleum hydrocarbons

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code

Table 4
Natural Attenuation Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Analytical Results										
			Dissolved Oxygen ⁽¹⁾ (mg/L)	Chloride ⁽²⁾ (mg/L)	Nitrate ⁽²⁾ (mg/L)	Total Manganese ⁽³⁾ (µg/L)	Total Iron ⁽³⁾ (mg/L)	Ferrous Iron ⁽⁴⁾ (mg/L)	Ferric Iron ⁽⁵⁾ (mg/L)	Sulfate ⁽²⁾ (mg/L)	Methane ⁽⁶⁾ (µg/L)	Ethane ⁽⁶⁾ (µg/L)	Ethene ⁽⁶⁾ (µg/L)
Boren Avenue North													
MW04	MW04-20110527	05/27/11	6.24	--	--	--	--	--	--	--	--	--	--
	MW04-20111012	10/12/11	6.17	--	--	--	--	--	--	--	--	--	--
	MW04-20130909	09/09/13	5.49	--	--	--	--	--	--	--	--	--	--
	MW04-20150508	05/08/15	0.433	29.9	16.7	3.32	0.0667	<0.0300	0.0667	45.6	<5	<10	<10
	MW04-20150806	08/06/15	6.09	--	--	--	--	--	--	--	--	--	--
	MW04-20181214	12/14/18	4.83	--	17.9 ^{D,H}	22.9	0.506	0.0677 ^H	--	43.2 ^D	<5	<10	<10
	MW04-20190614	06/14/19	4.15	--	14.8 ^{D,H}	15.9	0.327	0.129	--	46.7 ^D	<8.63	<16.2	<15.1
	MW04-20191205	12/05/19	7.97	--	24.4 ^{D,H}	7.59	0.254	<0.0500	--	41.4 ^D	<8.63	<16.2	<15.1
	MW04-20200626	06/26/20	7.78	--	6.32 ^{D,H}	3.63	0.158	<0.0500 ^H	--	40.7 ^D	107	<16.2	<15.1
	MW04-20201211	12/11/20	6.63	--	7.14 ^{D,H}	11.6	0.388	<0.0500 ^H	--	40.0 ^D	<8.63	<16.2	<15.1
	MW04-20210623	06/23/21	2.23	--	4.86 ^D	24.1	1.630	<0.100 ^H	--	41.9 ^D	<6.75	<15.1	<14.6
	MW04-20211215	12/15/21	1.07	--	9.95 ^{D,H}	2.26	a	<0.100	--	33.1 ^D	<6.75	<15.1	<14.6
	MW04-20220607	06/07/22	5.75	--	24.6 ^{D,H}	<10	<0.5	<0.100	--	35.7 ^D	<6.75	<15.1	<14.6
MW04-20221214	12/14/22	8.16	--	24.4 ^{D,H}	7.44	0.203	0.0682 ^{J,H}	--	36.7 ^D	<6.75	<15.1	<14.6	
MW04-20230622	06/22/23	7.79	--	21.8 ^{D,H}	<1	0.123	<0.150 ^H	--	41.4 ^D	<6.75	<15.1	<14.6	
MW04-20231208	12/08/23	7.52	--	17.2 ^{D,H}	1.68	0.0888	<0.150 ^H	--	42.8 ^D	<6.75	<15.1	<14.6	
MW07	MW07-20110531	05/31/11	5.70	--	--	--	--	--	--	--	--	--	--
	MW07-20111012	10/12/11	2.92	--	--	--	--	--	--	--	--	--	--
	MW07-20130909	09/09/13	2.71	--	--	--	--	--	--	--	--	--	--
	MW07-20150508	05/08/15	4.79	34.5	30.1	18.2	0.0825	<0.0300	0.0825	41.1	<5	<10	<10
	MW07-20150805	08/05/15	4.65	--	--	--	--	--	--	--	--	--	--
	MW07-20170531	05/31/17	4.45	27.9 ^D	--	--	--	--	--	--	<5	<10	<10
	MW07-20180308	03/08/18	7.75	23.3 ^D	--	--	--	--	--	--	<5	<10	<10
	MW07-20180629	06/29/18	7.38	32.5 ^D	--	--	--	--	--	--	<5	<10	<10
	MW07-20180920	09/20/18	8.76	28.7 ^D	--	--	--	--	--	--	<5	<10	<10
	MW07-20181214	12/14/18	7.57	--	26.5 ^{D,H}	13.5	0.117	0.0959 ^H	--	56.1 ^D	<5	<10	<10
	MW07-20190614	06/14/19	7.91	--	29.1 ^{D,H}	9.26	0.225	0.0818	--	51.0 ^D	<8.63	<16.2	<15.1
	MW07-20191205	12/05/19	6.85	--	34.9 ^{D,H}	5.89	203	0.0654 ^H	--	49.6 ^D	<8.63	<16.2	<15.1
	MW07-20200630	06/30/20	4.95	--	--	6.24	0.111	<0.0500 ^H	--	41.7 ^D	<8.63	<16.2	<15.1
	MW07-20201210	12/10/20	1.39	--	13.4 ^{D,H}	3.91	0.0926	<0.0500 ^H	--	30.7 ^D	328 ^D	<16.2	<15.1
	MW07-20210623	06/23/21	4.91	--	14.0 ^{D,H}	15.2	0.166	<0.100 ^H	--	32.0 ^D	317 ^D	<15.1	<14.6
	MW07-20211215	12/15/21	1.12	--	9.72 ^{D,H}	8.50	0.133	<0.100	--	17.4 ^D	<6.75	<15.1	<14.6
	MW07-20220607	06/07/22	7.57	--	34.8 ^{D,H}	86.5	<0.5	<0.100	--	38.7 ^D	<6.75	<15.1	<14.6
MW07-20221214	12/14/22	8.46	--	34.2 ^{D,H}	28.0	0.327	0.205 ^H	--	39.9 ^D	<6.75	<15.1	<14.6	
MW07-20230622	06/22/23	6.97	--	31.0 ^{D,H}	9.04	0.293	<0.150 ^H	--	41.7 ^D	<6.75	<15.1	<14.6	
MW07-20231208	12/08/23	8.22	--	27.9 ^{D,H}	10.5	0.280	<0.150 ^H	--	32.6 ^D	<6.75	<15.1	<14.6	
MW13	MW13-20111020	10/20/11	2.12	--	--	--	--	--	--	--	--	--	--
	MW13-20130910	09/10/13	3.67	--	--	--	--	--	--	--	--	--	--
	MW13-20150511	05/11/15	4.71	32.9	5.07	2.770	73.200	4.60	68.60	44.5	<5	<10	<10
	MW13-20150805	08/05/15	3.91	--	--	--	--	--	--	--	--	--	--
	MW13-20211216	12/16/21	4.30	--	--	--	--	--	--	--	--	--	--
Thomas Street													
MW16	MW16-20130911	09/11/13	3.64	--	--	--	--	--	--	--	--	--	--
	MW16-20150508	05/08/15	0.68	27.6	0.694	484	0.488	0.0700	0.4180	7.28	<5	<10	<10
	MW16-20150805	08/05/15	0.40	--	--	--	--	--	--	--	--	--	--
	MW16-20151210	12/10/15	0.73	--	--	--	--	--	--	8.09	<5	<10	<10
	MW16-20160712	07/12/16	0.47	--	--	--	--	--	--	4.57	2,500 ^{ve}	<10	<10
	MW16-20170125	01/25/17	0.46	--	--	--	--	--	--	14.2	530	<10	<10
	MW16-20170531	05/31/17	0.65	11.6 ^D	--	--	--	--	--	--	25	<10	<10
	MW16-20170922	09/22/17	0.72	10.2 ^D	--	--	--	--	--	--	8	<10	<10
	MW16-20171229	12/29/17	2.13	15.2 ^D	--	--	--	--	--	--	340	<10	<10
MW16-20180309	03/09/18	0.23	11.8 ^D	--	--	--	--	--	--	6.5	<10	<10	
WELL DAMAGED 2018													
MW28	MW28-20190613	06/13/19	1.08	--	<0.500 ^{D,H}	1,140	1.100	1.02 ^H	--	2.10 ^D	15.3	<16.2	<15.1
	MW28-20191204	12/04/19	0.24	--	<0.200 ^{D,H}	651	1.550	1.26 ^H	--	<0.600 ^D	59	<16.2	<15.1
	MW28-20200626	06/26/20	0.55	--	<0.200 ^{D,H}	452	1.450	1.48 ^H	--	0.391	43.8	<16.2	<15.1
	MW28-20201211	12/11/20	1.47	--	<0.200 ^{D,H}	470	0.576	0.359 ^H	--	0.748 ^D	72.3	<16.2	<15.1
	MW28-20210623	06/23/21	3.67	--	<0.100 ^H	617	1.340	1.28 ^H	--	9.58	53.2	<15.1	<14.6
	MW28-20211216	12/16/21	0.44	--	0.110 ^{D,H}	744	7.380	1.17 ^H	--	8.39 ^D	143	<15.1	<14.6
	MW28-20220609	06/09/22	1.12	--	<0.500 ^{D,H}	678	2.840	1.14 ^H	--	7.32 ^D	34.3	<15.1	<14.6
	MW28-20221215	12/15/22	2.17	--	<2.00 ^D	512	1.340	0.826 ^H	--	1.59	13.1	<15.1	<14.6
	MW28-20230621	06/21/23	7.75	--	0.136 ^H	321	2.600	0.305 ^H	--	3.31	7.82	<15.1	<14.6
MW28-20231204	12/04/23	9.35	--	<10.0 ^D	563	0.904	<0.150 ^H	--	<60.0 ^{D*}	55.4	<15.1	<14.6	



Table 4
Natural Attenuation Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Analytical Results										
			Dissolved Oxygen ⁽¹⁾ (mg/L)	Chloride ⁽²⁾ (mg/L)	Nitrate ⁽²⁾ (mg/L)	Total Manganese ⁽³⁾ (µg/L)	Total Iron ⁽³⁾ (mg/L)	Ferrous Iron ⁽⁴⁾ (mg/L)	Ferric Iron ⁽⁵⁾ (mg/L)	Sulfate ⁽²⁾ (mg/L)	Methane ⁽⁶⁾ (µg/L)	Ethane ⁽⁶⁾ (µg/L)	Ethene ⁽⁶⁾ (µg/L)
Harrison Street													
MW26	MW26-20181214	12/14/18	0.62	--	5.06 ^{D,H}	35.4	0.134	0.133 ^H	--	34.2 ^D	1,500	<10	<10
	MW26-20190614	06/14/19	0.59	--	7.10 ^{D,H}	62.1	0.29	0.136	--	45.0 ^D	4,120 ^D	<324 ^D	<303 ^D
	MW26-20191205	12/05/19	0.7	--	1.74 ^D	906	4.830	6.12 ^{D,H}	--	27.8 ^D	3.80 ^D	<16.2	<15.1
	MW26-20200626	06/26/20	0.19	--	0.208 ^H	806	0.656	0.595 ^H	--	37.4 ^D	1,340 ^D	<16.2	<15.1
	MW26-20201211	12/11/20	0.64	--	<0.100 ^H	605	0.230	0.195 ^H	--	19.5 ^D	263 ^D	<16.2	<15.1
	MW26-20210623	06/23/21	0.33	--	<0.400 ^{D,H}	579	0.497	0.382 ^H	--	32.5 ^D	12.9	<15.1	<14.6
	MW26-20211215	12/15/21	0.55	--	<0.100 ^H	496	0.371	0.126 ^H	--	29.3 ^D	83.7	<15.1	<14.6
	MW26-20220608	06/08/22	5.92	--	<3.00 ^{D,H}	587	7.330	1.17 ^H	--	17.8 ^D	8.05	<15.1	<14.6
	MW26-20221214	12/14/22	3.27	--	0.189 ^H	1,270	28.100	1.42 ^{D,H}	--	30.1 ^{D,B}	13.9	<15.1	<14.6
MW26-20230622	06/22/23	6.55	--	0.133 ^H	842	4.320	0.476 ^H	--	32.1 ^D	<6.75	<15.1	<14.6	
MW26-20231206	12/06/23	8.14	--	<0.100 ^H	281	1.730	<0.150	--	13.2 ^H	<6.75	<15.1	<14.6	

NOTES:

Analyses performed by Friedman & Bruya, Inc. or Fremont Analytical Inc. of Seattle, Washington.

⁽¹⁾Parameter is measured in the field using water quality meter with flow-through cell. The reported value is the last reading prior to sampling groundwater.

⁽²⁾Analyzed by EPA Method 300.0.

⁽³⁾Analyzed by EPA Method 200.8.

⁽⁴⁾Analyzed by Standard Method 3500-Fe B.

⁽⁵⁾Ferric iron concentration = total iron concentration – ferrous iron concentration.

⁽⁶⁾Analyzed by Method RSK-175.

Laboratory Notes:

^BIndicates a detection in the ICB or CCB.

^DDilution was required.

^HHolding times for preparation or analysis exceeded.

^JAnalyte detected below Reporting Limit.

^JThe analyte result in the laboratory control sample is out of control limits. The reported concentrations is an estimate.

^{RA}Indicates reanalysis with background correction for turbidity.

^{VB}The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

* Flagged value is not within established control limits.

* Anomalous reading, attributed to meter error.

-- = not measured/ not applicable

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

µg/L = micrograms per liter

CCB = Continued Calibration Blank

EPA = US Environmental Protection Agency

ICB = Initial Calibration Blank

mg/L = milligrams per liter

Table 5
Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
Troy Laundry Property										
MW17	MW17-20150506	05/06/15	6.87	169.0	3.30	0.387	1.01	14.53	--	--
	MW17-20150804	08/04/15	6.17	129.0	4.45	0.477	2.61	15.52	--	--
	MW17-20151207	12/07/15	6.89	221.5	4.12	0.398	3.3	14.60	--	--
	MW17-20160308	03/08/16	6.67	160	1.39	0.365	0.8	14.30	--	--
	MW17-20160714	07/14/16	6.62	51.1	3.59	0.355	1.19	14.36	--	--
	MW17-20161020	10/20/16	6.75	203.3	0.84	0.384	2.72	14.44	--	--
	MW17-20170126	01/26/17	6.66	-40.7	0.57	0.386	2.24	14.14	--	--
	MW17-20170601	06/01/17	6.50	-147.6	0.54	0.375	12.61	14.48	--	--
	MW17-20170923	09/23/17	6.34	170.4	0.31	0.509	3.96	15.13	--	--
	MW17-20171216	12/16/17	6.82	22.3	0.26	0.501	3.37	12.60	--	--
	MW17-20180310	03/10/18	6.82	22.3	0.26	0.501	3.37	12.60	--	--
	MW17-20180630	06/30/18	6.85	14.8	1.07	0.723	8.60	14.87	--	--
	MW17-20180922	09/22/18	6.79	16.9	0.17	0.710	9.38	15.20	--	--
	MW17-20181215	12/15/18	6.58	18.8	0.41	0.677	6.70	14.77	--	--
	MW17-20190615	06/15/19	6.67	83.8	0.36	0.634	3.81	14.90	--	--
	MW17-20191207	12/07/19	6.62	-9.8	1.34	0.581	2.12	11.32	--	--
	MW17-20200627	06/27/20	6.68	-82.3	3.82	0.537	9.64	15.00	--	--
MW17-20201212	12/12/20	6.58	-19.6	1.09	0.526	9.28	14.38	--	--	
MW17-20210625	06/25/21	6.67	-110.6	0.94	0.507	1.42	14.71	--	--	
MW17-20211217	12/17/21	6.74	-41.9	0.12	0.670	--	14.50	--	--	
MW18	MW18-20150506	05/06/15	6.52	172.5	1.99	0.480	0.88	14.34	142	<0.500
	MW18-20150803	08/03/15	5.75	82.2	2.66	0.598	2.74	15.70	--	--
	MW18-20151208	12/08/15	7.74	115.6	1.64	0.594	1.85	14.08	--	--
	MW18-20160308	03/08/16	6.41	156.7	1.30	0.469	1.3	14.26	--	1.01
	MW18-20160608	06/08/16	6.66	8.8	1.5	--	--	--	--	--
	MW18-20160616	06/16/16	6.2	0.8	1.4	--	--	--	--	--
	MW18-20160623	06/23/16	5.87	-57.9	0.43	--	--	--	--	--
	MW18-20160629	06/29/16	5.43	-33	1.08	--	--	--	--	--
	MW18-20160706	07/06/16	5.29	-33.7	1.8	--	--	--	--	--
	MW18-20160714	07/14/16	5.43	8.7	0.47	0.883	9.3	14.89	--	2,300
	MW18-20160825	08/25/16	4.97	38.9	0.55	--	--	--	--	--
	MW18-20161020	10/20/16	5.46	65.5	0.79	1.220	7.69	14.83	--	1,900
	MW18-20170126	01/26/17	5.65	7.2	1.50	0.956	8.1	13.85	--	823
	MW18-20170601	06/01/17	6.19	-167.3	0.58	1.284	6.02	15.21	--	1,090 ^U
	MW18-20170923	09/23/17	6.13	48.1	0.48	1.014	55.7	16.37	--	253 ^D
	MW18-20171216	12/16/17	6.52	-21.2	0.77	0.911	40.9	12.04	--	173 ^D
	MW18-20180310	03/10/18	6.18	-8.0	0.38	0.833	27.1	14.73	--	108 ^D
	MW18-20180630	06/30/18	6.30	-31.9	0.68	1.008	12.4	15.49	--	47.2 ^D
	MW18-20180922	09/22/18	6.31	-18.7	0.19	1.000	20.8	16.10	--	37.8 ^D
	MW18-20181215	12/15/18	6.6	-4.0	0.62	0.980	9.34	15.39	533	16.9
	MW18-20190615	06/15/19	6.23	69.2	0.30	1.043	10.98	15.71	531	10.6
	MW18-20191207	12/07/19	5.82	-137.4	0.69	0.870	15.0	15.00	497	9.61 ^B
	MW18-20200627	06/27/20	6.41	-85.1	0.18	0.950	9.46	15.70	536	5.95
MW18-20201212	12/12/20	6.21	-88.1	2.98	0.889	4.65	14.98	451	4.30	
MW18-20210625	06/25/21	6.29	-86.0	0.91	0.873	7.91	15.35	454 ^T	6.85	
MW18-20211217	12/17/21	6.20	-52.8	0.13	1.080	--	14.9	503	11.9	
MW18-20220609	06/09/22	6.30	-19.1	0.30	0.870	16.50	14.3	487	7.97	
MW18-20221215	12/15/22	6.17	-59.7	0.16	0.860	22.40	14.3	449	6.18	
MW18-20230622	06/22/23	6.27	-60.6	0.18	0.832	13.10	15.2	419	5.69	
MW18-20231207	12/07/23	6.14	-75.5	0.23	1.060	8.76	14.9	537	5.31	
MW19	MW19-20150507	05/07/15	6.68	156.1	1.75	0.502	1.27	14.44	144	<0.500
	MW19-20150803	08/03/15	5.67	222.2	2.33	0.523	5.8	15.47	--	--
	MW19-20151207	12/07/15	7.08	95.6	0.99	0.685	4.29	14.64	--	--
	MW19-20160308	03/08/16	6.27	154.7	1.29	0.613	0.84	14.73	--	--
	MW19-20160713	07/13/16	5.62	5.7	0.32	0.821	1017	15.59	--	--
	MW19-20160825	08/25/16	4.82	31.4	0.73	--	--	--	--	--
	MW19-20161021	10/21/16	5.62	27.0	0.15	1.404	3.00	15.59	--	--
	MW19-20170125	01/25/17	5.40	-10.4	0.40	1.120	7.98	14.40	--	--
	MW19-20170601	06/01/17	5.34	-148.6	0.53	0.963	4.02	15.99	--	--
	MW19-20170923	09/23/17	5.47	169.2	0.77	0.816	17.8	18.07	--	--
	MW19-20171216	12/16/17	6.39	-30.9	0.58	0.602	4.92	13.43	--	--
	MW19-20180310	03/10/18	6.06	-14.3	0.26	0.542	14.0	15.36	--	--
	MW19-20180630	06/30/18	6.15	-22.7	0.86	0.744	9.95	16.54	--	--
	MW19-20180922	09/22/18	6.23	-26.7	0.16	0.800	37.30	16.90	--	--
	MW19-20190615	06/15/19	6.24	40.6	0.28	1.060	11.4	16.41	556	--
	MW19-20191207	12/07/19	5.57	-134.0	0.54	0.785	--	15.75	473	--
	MW19-20200627	06/27/20	6.40	-70.4	0.27	1.000	39.1	16.60	570	--
	MW19-20201212	12/12/20	9.26	-275.8	11.88*	0.100	4.9	15.79	412	--
	MW19-20210625	06/25/21	6.33	-67.2	0.81	0.964	26.2	16.19	520 ^T	--
	MW19-20211217	12/17/21	6.20	-25.4	0.08	1.070	--	15.7	488	--
	MW19-20220609	06/09/22	6.21	-18.6	0.35	0.720	8.47	15.2	373	--
	MW19-20221216	12/16/22	6.17	-49.4	0.19	0.699	12.10	15.4	328	--
	MW19-20230622	06/22/23	6.15	-17.7	0.15	1.410	32.90	15.7	396	--
MW19-20231207	12/07/23	6.03	-271.8	0.62	0.843	73.70	15.21	346	--	

Table 5
Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
MW20	MW20-20150506	05/06/15	6.91	287.1	0.59	0.678	0.00	13.68	--	--
	MW20-20150803	08/03/15	6.11	175.6	1.11	0.784	9.4	14.45	--	--
	MW20-20151207	12/07/15	6.86	228.5	0.85	0.716	9.0	13.81	--	--
	MW20-20160309	03/09/16	6.72	66.1	0.41	0.711	1.2	13.81	--	--
	MW20-20160715	07/15/16	6.71	201.4	0.64	0.726	2.14	14.28	--	--
	MW20-20161020	10/20/16	6.96	92.0	0.92	0.731	1.90	14.30	--	--
	MW20-20170125	01/25/17	6.82	-0.1	0.67	0.732	0.56	0.67	--	--
	MW20-20170601	06/01/17	6.68	-175.7	0.85	0.735	3.07	14.38	--	--
	MW20-20170924	09/24/17	6.63	177.6	0.57	0.779	2.12	15.25	--	--
	MW20-20171216	12/16/17	6.36	47.0	0.27	0.895	2.14	12.31	--	--
	MW20-20180310	03/10/18	6.71	61.4	0.26	0.855	6.07	14.16	--	--
	MW20-20180630	06/30/18	6.71	21.7	1.64	0.884	3.18	15.06	--	--
	MW20-20180922	09/22/18	6.80	13.9	0.19	0.850	3.18	15.10	--	--
	MW20-20181215	12/15/18	6.61	28.0	0.37	0.827	0.73	14.56	--	--
	MW20-20190615	06/15/19	6.72	95.1	0.50	0.928	1.70	14.94	--	--
	MW20-20191207	12/07/19	6.66	-14.9	1.23	0.883	0.99	11.37	--	--
	MW20-20200627	06/27/20	6.66	-58.2	1.60	0.970	2.15	14.90	--	--
MW20-20201212	12/12/20	6.79	135.9	0.42	1.131	1.63	14.39	--	--	
MW20-20210625	06/25/21	6.54	-46.0	1.20	0.984	1.07	14.71	--	--	
MW20-20211217	12/17/21	6.58	-9.0	0.18	1.150	--	14.40	--	--	
MW21	MW21-20150506	05/06/15	6.58	295.0	0.45	0.675	0.00	14.06	--	--
	MW21-20150804	08/04/15	6.09	77.5	0.68	0.980	2.61	15.13	--	--
	MW21-20151208	12/08/15	7.91	96.8	0.78	1.486	0.83	14.03	--	--
	MW21-20160309	03/09/16	5.03	137.3	1.84	0.879	1.28	14.19	--	2.29
	MW21-20160608	06/08/16	6.28	-0.5	2.46	--	--	--	--	--
	MW21-20160616	06/16/16	--	--	--	--	--	--	--	--
	MW21-20160623	06/23/16	--	--	--	--	--	--	--	--
	MW21-20160629	06/29/16	5.5	52.6	1.95	--	--	--	--	--
	MW21-20160706	07/06/16	5.27	47.1	2.16	--	--	--	--	--
	MW21-20160713	07/13/16	5.41	61.2	0.45	1.104	10.3	14.73	--	1,800
	MW21-20160825	08/25/16	4.97	67.9	0.48	--	--	--	--	--
	MW21-20161020	10/20/16	5.64	71.7	1.26	1.268	>2000	14.61	--	1,800
	MW21-20170126	01/26/17	5.78	-22.0	0.50	0.846	3.59	13.78	--	884
	MW21-20170601	06/01/17	5.69	246.8	0.54	0.920	5.90	14.94	--	755 ^D
	MW21-20170923	09/23/17	5.36	14.9	0.69	1.180	4.42	14.67	--	871 ^D
	MW21-20171216	12/16/17	5.54	26.3	2.67	1.146	6.00	14.81	--	722 ^D
	MW21-20180310	03/10/18	5.27	58.1	0.71	1.102	4.29	14.43	--	466 ^D
	MW21-20180630	06/30/18	5.18	49.5	0.34	1.546	4.05	14.94	--	718 ^D
	MW21-20180922	09/22/18	5.72	97.2	0.33	1.090	6.84	16.00	--	549 ^D
	MW21-20181215	12/15/18	5.67	-20.1	1.57	1.041	6.10	15.41	--	124 ^D
	MW21-20190615	06/15/19	5.84	1.0	0.19	1.023	2.81	15.27	--	163 ^D
	MW21-20191207	12/07/19	5.55	-142.2	0.77	0.913	7.64	14.81	--	110 ^{BE}
	MW21-20200627	06/27/20	5.26	83.0	0.17	0.930	61.80	15.80	--	--
	MW21-20201212	12/12/20	5.8	157.2	0.20	0.934	15.30	14.84	--	191 ^D
	MW21-20210625	06/25/21	5.57	12.9	0.49	0.836	4.84	15.20	--	349 ^D
	MW21-20211217	12/17/21	8.69	-25.8	0.68	0.963	--	14.44	--	330
MW21-20220609	06/09/22	5.75	-13.0	0.30	0.840	25.0	14.64	--	123	
MW21-20221215	12/15/22	6.82	118.4	0.14	1.650	38.1	14.30	--	104 ^H	
MW21-20230623	06/23/23	6.12	0.6	0.20	1.010	16.6	14.90	--	25.5	
MW21-20231207	12/07/23	5.96	-1.8	0.35	0.980	31.5	14.50	--	109	
MW22	MW22-20150506	05/06/15	6.34	280.6	0.30	0.707	0.00	14.4	--	--
	MW22-20150804	08/04/15	6.29	103.9	0.96	0.794	6.8	15.05	--	--
	MW22-20151208	12/08/15	5.91	212.8	2.18	0.702	0.4	14.49	--	--
	MW22-20160308	03/08/16	6.34	153.8	0.54	0.579	0.81	14.46	--	--
	MW22-20160608	06/08/16	6	-3.2	1.55	--	--	--	--	--
	MW22-20160616	06/16/16	4.99	95.2	1.65	--	--	--	--	--
	MW22-20160623	06/23/16	5.1	64	0.68	--	--	--	--	--
	MW22-20160629	06/29/16	5.22	84.8	1.85	--	--	--	--	--
	MW22-20160706	07/06/16	5.17	26.1	1.88	--	--	--	--	--
	MW22-20160713	07/13/16	5.55	88.1	0.42	1.276	7.26	14.85	--	--
	MW22-20160825	08/25/16	5.06	21.2	0.42	--	--	--	--	--
	MW22-20161020	10/20/16	5.48	108.8	0.24	1.408	8.66	14.86	--	--
	MW22-20170126	1/26/2017	5.55	21.2	0.27	1.185	4.83	14.23	--	--
	MW22-20170601	06/01/17	5.67	239.2	0.62	1.118	5.32	15.32	--	--
	MW22-20170923	09/23/17	5.38	104.1	0.27	1.290	3.52	15.12	--	--
	MW22-20171216	12/16/17	5.44	84.2	0.64	1.186	7.21	14.83	--	--
	MW22-20180310	03/10/18	5.32	82	6.61	0.868	4.57	14.44	--	--
	MW22-20180630	06/30/18	5.47	41.9	0.23	1.128	5.12	15.74	--	--
	MW22-20180922	09/22/18	5.94	73.1	0.38	0.820	5.67	17.00	--	--
	MW22-20181215	12/15/18	5.67	18.4	0.67	0.817	8.6	15.50	269	388 ^D
	MW22-20190615	06/15/19	5.68	106.8	0.38	0.858	7.40	15.63	273	286 ^D
	MW22-20191207	12/07/19	5.69	-76.4	2.02	0.803	71.20	12.14	283	255 ^{BE}
	MW22-20200627	06/27/20	5.82	3.4	0.40	0.720	83.30	15.90	182	206 ^D
	MW22-20201212	12/12/20	6.01	154.5	0.31	0.817	25.80	14.97	500	95.5 ^D
	MW22-20210625	06/25/21	5.91	-4.9	0.55	0.679	8.34	15.30	243 ^H	150 ^D
	MW22-20211217	12/17/21	9.01	-48.1	0.68	0.749	--	14.33	287	133 ^D
MW22-20220609	06/09/22	5.95	13.8	0.35	0.673	6.70	14.73	304	42	
MW22-20221216	12/16/22	6.09	-13	0.13	0.749	35.60	14.40	289	105 ^D	
MW22-20230623	06/23/23	6.2	-37.1	0.13	0.827	15.40	15.30	317	82.7	
MW22-20231207	12/07/23	5.97	-229.7	0.68	0.943	15.10	14.53	346	76.8	

Table 5
Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
IW91	IW91-20150506	05/06/15	6.54	171.4	1.57	0.300	0.19	14.35	--	--
	IW91-20150804	08/04/15	6.11	143.7	2.26	0.363	1.91	14.66	--	--
	IW91-20151208	12/08/15	5.88	218.9	5.23	0.342	8.2	14.18	--	--
	IW91-20160309	03/09/16	6.87	209.2	3.99	0.325	2.98	14.15	--	--
	IW91-20160714	07/14/16	6.79	118	5.51	0.299	0.81	14.60	--	--
	IW91-20161020	10/20/16	6.62	143.2	0.25	0.509	6.69	14.68	--	--
	IW91-20170126	01/26/17	6.93	-65.2	0.35	0.461	3.99	14.17	--	--
	IW91-20170601	06/01/17	6.92	192.4	1.90	0.442	3.57	14.54	--	--
	IW91-20170923	09/23/17	6.92	173.0	2.21	0.433	5.16	14.64	--	--
	IW91-20171216	12/16/17	7.09	223.6	2.10	0.337	23.0	14.49	--	--
	IW91-20180310	03/10/18	6.68	196.6	5.81	0.385	20.1	14.55	--	--
	IW91-20180630	06/30/18	6.67	22.4	12.00	0.563	2.52	14.34	--	--
	IW91-20180922	09/22/18	7.00	199.8	5.59	0.462	2.17	15.70	--	--
	IW91-20181215	12/15/18	6.94	12.5	6.43	0.524	0.97	14.99	--	--
	IW91-20190615	06/15/19	6.51	25.1	9.86	0.557	2.27	15.30	--	--
	IW91-20191207	12/07/19	6.63	-131.6	4.45	0.585	1.98	14.62	--	--
	IW91-20200627	06/27/20	6.72	11.7	22.14*	0.457	4.02	15.30	--	--
IW91-20201212	12/12/20	7.39	177.9	10.84*	0.553	12.70	15.02	--	--	
IW91-20210625	06/25/21	7.35	99.0	17.23	0.433	4.13	14.90	--	--	
IW91-20211217	12/17/21	9.44	6.5	6.05	0.546	--	14.39	--	--	
AIW02	AIW02-20160825	08/25/16	4.88	15.3	0.77	--	--	--	--	--
AIW05	AIW05-20160825	08/25/16	4.89	31.5	1.77	--	--	--	--	--
Boren Avenue North										
MW04	MW04-20110527	05/27/11	6.93	11	6.24	0.330	122	15.09	--	--
	MW04-20111012	10/12/11	6.46	201.6	6.17	0.252	25.1	15.0	--	--
	MW04-20130909	09/09/13	6.15	-136.0	5.49	0.305	>200	17.6	--	--
	MW04-20150508	05/08/15	6.76	287.3	0.433	0.433	0.00	17.03	54.0	<0.500
	MW04-20150806	08/06/15	6.39	111.2	6.09	0.350	0.9	18.01	--	--
	MW04-20151209	12/09/15	6.49	221.3	7.48	0.344	1.1	16.74	--	--
	MW04-20160308	03/08/16	6.60	136.4	3.56	0.292	1.46	16.11	--	--
	MW04-20160713	07/13/16	6.48	-1.3	0.99	0.392	1.06	16.78	--	--
	MW04-20161019	10/19/16	7.18	190.7	3.15	0.300	4.06	15.98	--	--
	MW04-20170124	01/24/17	6.91	-1.1	2.95	0.237	3.22	14.74	--	--
	MW04-20170531	05/31/17	6.93	219.6	7.11	0.453	6.06	15.70	--	--
	MW04-20170921	09/21/17	6.71	120.3	8.65	0.460	6.82	15.49	--	--
	MW04-20171214	12/14/17	7.13	237.0	8.36	0.465	3.01	13.12	--	--
	MW04-20180309	03/09/18	6.60	159.4	1.80	0.290	3.01	14.96	--	--
	MW04-20180629	06/29/18	6.61	132.9	4.55	0.351	1.50	15.78	--	--
	MW04-20180920	09/20/18	6.55	189.1	7.07	0.387	1.27	15.80	--	--
	MW04-20181214	12/14/18	6.47	38.2	4.83	0.388	0.73	14.58	41.0	--
	MW04-20190614	06/14/19	6.58	100.0	4.15	0.386	3.98	16.50	66.3	--
	MW04-20191205	12/05/19	6.68	-64.1	7.97	0.463	2.67	14.07	45.8	--
	MW04-20200626	06/26/20	6.37	185.2	7.78	0.391	7.72	16.70	115	--
	MW04-20201211	12/11/20	9.57	-11.2	6.63	0.409	4.75	12.10	103	--
	MW04-20210623	06/23/21	6.35	-16.3	2.23	0.480	6.14	15.96	137	--
	MW04-20211215	12/15/21	6.95	126.9	1.07	0.495	2.55	14.90	74.0	0.965
MW04-20220607	06/07/22	6.54	326.5	5.75	0.700	7.06	15.00	61.6	0.633	
MW04-20221214	12/14/22	6.48	183.3	8.16	0.582	9.11	14.10	211	0.761	
MW04-20230622	06/22/23	6.80	263.5	7.79	0.950	2.28	14.80	57.8	0.919	
MW04-20231208	12/08/23	6.56	217.1	7.52	0.445	0.93	14.70	66.6	<0.700	
MW07	MW07-20110531	05/31/11	6.63	26	5.70	0.281	--	14.71	--	--
	MW07-20111012	10/12/11	6.36	166.4	2.92	0.181	14.9	15.2	--	--
	MW07-20130909	09/09/13	6.48	124.5	2.71	0.373	17.1	18.0	--	--
	MW07-20150508	05/08/15	5.94	304.5	4.79	0.491	5.34	17.19	39.0	<0.500
	MW07-20150805	08/05/15	6.22	84.4	4.65	0.597	0.96	18.43	--	--
	MW07-20151209	12/09/15	6.59	210.8	3.10	0.446	4.4	16.86	--	--
	MW07-20160308	03/08/16	6.42	252.3	3.78	0.375	8.12	15.00	--	0.862
	MW07-20160713	07/13/16	6.44	222.8	0.77	0.330	1.01	16.82	--	0.83
	MW07-20161019	10/19/16	6.79	120.8	2.96	0.328	4.00	16.24	--	1.70
	MW07-20170124	01/24/17	6.68	-36.8	4.92	0.275	12.21	13.47	--	4.25
	MW07-20170531	05/31/17	6.32	-76.4	4.45	0.474	7.21	15.95	--	4.58
	MW07-20180308	03/08/18	6.47	124.4	7.75	0.374	2.75	14.33	--	0.877
	MW07-20180629	06/29/18	6.32	176.2	7.38	0.509	1.43	16.31	--	1.80
	MW07-20180920	09/20/18	6.42	198.7	8.76	0.486	6.50	16.30	--	0.963
	MW07-20181214	12/14/18	6.32	55.0	7.57	0.465	3.86	15.59	25.5	0.942
	MW07-20190614	06/14/19	6.12	115.9	7.91	0.469	5.23	15.86	23.4	0.869
	MW07-20191205	12/05/19	6.41	-71.1	6.85	0.531	6.35	14.45	20.5	0.736
	MW07-20200630	06/30/20	6.41	125.4	4.95	0.414	4.14	15.88	--	0.789
	MW07-20201210	12/10/20	6.41	131.6	1.39	0.439	3.36	15.00	83.3	0.969
	MW07-20210623	06/23/21	6.39	-40.6	4.91	0.504	3.48	16.11	99.4	0.949
	MW07-20211215	12/15/21	6.89	130.1	1.12	0.483	1.12	14.80	60.5	0.884
	MW07-20220607	06/07/22	6.36	62.1	7.57	0.489	8.6	15.69	32.5	0.772
	MW07-20221214	12/14/22	6.81	323.7	8.46	0.970	15.1	14.80	32.7	0.756
MW07-20230622	06/22/23	6.50	239.2	6.97	1.140	1.41	15.40	29.2	0.895	
MW07-20231208	12/08/23	6.09	-97.3	8.22	0.543	2.14	14.38	25.2	1.70	

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Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
MW13	MW13-20111020	10/20/11	7.10	138.0	2.12	1.040	21.8	15.9	--	--
	MW13-20130910	09/10/13	6.50	34.9	3.67	0.256	>200	18.4	--	--
	MW13-20150511	05/11/15	6.83	107.0	4.71	0.367	131.0	17.13	40.0	<0.500
	MW13-20150805	08/05/15	6.50	97.7	3.91	0.400	>200	17.82	--	--
	MW13-20151215	12/15/15	8.72	91.8	3.61	0.384	51.2	15.53	--	--
	MW13-20160307	03/07/16	6.80	190.3	2.94	0.348	4.06	15.83	--	--
	MW13-20160712	07/12/16	6.67	82.4	4.29	0.386	6.65	17.75	--	--
	MW13-20161019	10/19/16	6.50	161.4	4.95	0.339	33.4	16.74	--	--
	MW13-20170124	01/24/17	6.78	-58.5	4.44	0.359	8.68	14.96	--	--
	MW13-20170531	05/31/17	6.59	-84.5	2.38	0.353	8.31	16.32	--	--
	MW13-20170921	09/21/17	6.27	351.8	6.20	0.337	89.7	15.74	--	--
	MW13-20171214	12/14/17	6.83	122.5	3.81	0.363	overrange	12.39	--	--
	MW13-20180308	03/08/18	6.57	186.2	5.98	0.331	40.5	15.22	--	--
	MW13-20180629	06/29/18	6.68	76.4	3.66	0.396	18.2	16.34	--	--
	MW13-20180920	09/20/18	6.64	157.6	4.38	312.500	26.7	16.20	--	--
	MW13-20181214	12/14/18	6.49	22.2	3.30	0.320	38.0	14.93	--	--
	MW13-20190614	06/14/19	6.41	106.2	4.31	0.315	9.63	15.83	--	--
	MW13-20191205	12/05/19	6.28	-0.2	7.31	0.214	18.60	11.38	--	--
	MW13-20200626	06/26/20	6.57	211.1	7.12	0.334	26.40	15.70	--	--
	MW13-20201210	12/10/20	6.65	194.4	5.39	0.354	9.24	14.63	--	--
MW13-20210623	06/23/21	6.73	203.9	2.82	0.294	9.16	16.50	--	--	
MW13-20211216	12/16/21	7.02	92.2	4.30	0.310	6.09	13.95	--	1.17	
MW13-20220608	06/08/22	6.27	319.0	5.50	0.329	9.85	14.90	--	--	
MW13-20221214	12/14/22	6.27	189.7	6.58	0.411	9.39	14.80	--	--	
MW13-20230622	06/22/23	6.64	186.1	6.58	0.438	6.14	15.30	--	--	
MW13-20231206	12/06/23	5.70	29.2	8.14	0.408	4.26	14.58	--	--	
MW27	MW27-20151210	12/10/15	6.75	217.6	5.56	0.417	4.5	16.74	--	--
	MW27-20160309	03/07/16	6.51	214.9	3.31	0.406	3.12	16.09	--	114
	MW27-20160713	07/13/16	6.47	78.8	2.60	0.414	5.17	17.36	--	--
	MW27-20161019	10/19/16	6.66	97.6	0.89	0.420	0.77	16.82	--	--
	MW27-20170124	01/24/17	6.55	113.9	0.68	0.617	4.01	0.68	--	--
	MW27-20170531	05/31/17	6.89	195.9	1.96	0.377	1.98	16.42	--	--
	MW27-20170921	09/21/17	6.51	126.3	2.39	0.365	2.27	15.64	--	--
	MW27-20171214	12/14/17	6.42	92.3	0.32	0.532	0.41	15.82	--	--
	MW27-20180308	03/08/18	6.46	-24.8	0.54	0.289	12.4	14.35	--	--
	MW27-20180628	06/28/18	6.32	-12.8	0.77	0.455	1.30	16.40	--	--
	MW27-20180920	09/20/18	6.42	40.9	0.21	0.388	1.34	16.80	--	--
	MW27-20181214	12/14/18	6.32	39.7	1.58	0.359	0.85	15.52	--	--
	MW27-20190614	06/14/19	6.44	49.6	3.22	0.360	1.47	15.92	--	--
	MW27-20191205	12/05/19	6.75	-69.3	5.25	0.372	1.68	14.20	--	--
	MW27-20200626	6/26/2020	6.20	197.9	0.32	0.442	3.42	16.10	--	--
	MW27-20201210	12/10/20	6.37	163.2	2.04	0.475	4.18	15.13	--	--
	MW27-20210623	06/23/21	6.55	12.7	0.22	0.535	6.11	16.70	--	--
	MW27-20211215	12/15/21	6.94	-62.8	0.06	0.567	5.31	15.30	--	--
	MW27-20220608	06/08/22	6.40	-29.5	0.42	0.432	1.10	15.57	--	--
	MW27-20221215	12/15/22	6.43	182.6	0.46	0.497	1.46	14.40	--	--
MW27-20230621	06/21/23	6.67	31.8	0.19	0.367	3.15	15.60	--	--	
MW27-20231206	12/06/23	6.51	-51.8	2.47	0.110	11.3	14.90	--	--	
MW31	MW31-20191009	10/09/19	9.75	100.2	4.02	0.230	16.2	15.02	--	--
	MW31-20191205	12/05/19	6.45	4.1	6.75	0.159	13.6	11.29	--	--
	MW31-20200630	6/30/2020	6.12	232.7	4.32	0.311	2,491 ^(M)	16.06	--	--
	MW31-20201211	12/11/20	6.77	146.9	3.77	0.343	2,950 ^(M)	12.14	--	--
	MW31-20210624	06/24/21	6.39	-13.1	8.62	0.286	24.1	16.59	--	--
	MW31-20211215	12/15/21	6.5	-6.4	4.73	0.381	9.3	14.38	--	--
	MW31-20220607	06/07/22	6.48	73.4	6.48	0.267	7.4	15.8	--	--
	MW31-20221214	12/14/22	6.37	176.2	7.41	0.311	32.6	14.8	--	--
MW31-20230621	06/21/23	6.84	167	7.94	0.300	6.1	15.5	--	--	
MW31-20231206	12/06/23	6.43	266.8	7.64	0.127	8.98	15.2	--	--	
Terry Avenue North										
MW15	MW15-20150508	05/08/15	6.09	167.7	8.25	0.135	4.07	15.35	--	--
	MW15-20150805	08/05/15	6.16	134.1	8.64	0.163	0.5	15.90	--	--
	MW15-20151209	12/09/15	7.33	164.8	7.53	0.169	2.57	14.58	--	--
	MW15-20160308	03/08/16	6.19	181.1	7.26	0.197	2.63	14.44	--	--
	MW15-20160713	07/13/16	6.28	196.9	4.62	0.341	1.28	15.40	--	--
	MW15-20161018	10/18/16	6.41	192.6	4.75	0.289	6.48	15.35	--	--
	MW15-20170125	01/25/17	6.14	70.2	4.21	0.159	1.78	1.88	--	--
	MW15-20170531	05/31/17	5.67	-48.0	9.71	0.126	7.01	15.22	--	--
	MW15-20170922	09/22/17	5.81	382.3	7.69	0.156	1.72	15.06	--	--
	MW15-20171215	12/15/17	6.50	117.0	5.31	0.251	4.84	12.66	--	--
	MW15-20171215	12/15/17	6.50	117.0	5.31	0.251	4.84	12.66	--	--
	MW15-20180309	03/09/18	6.30	44.5	0.36	0.359	6.01	14.13	--	--
	MW15-20180629	06/29/18	6.14	36.2	4.13	0.228	11.55	14.39	--	--
	MW15-20180920	09/20/18	5.88	169.7	7.66	0.273	14.3	15.70	--	--
	MW15-20181214	12/14/18	6.00	46.7	6.24	0.238	5.61	14.60	--	--
	MW15-20190613	06/13/19	5.97	128.9	5.70	0.154	5.95	16.27	--	--
	MW15-20191205	12/05/19	6.84	-85.7	4.43	0.235	29.20	13.62	--	--
MW15-20200626	6/26/2020	6.17	134.0	3.24	0.433	3.86	15.90	--	--	
MW15-20201211	12/11/20	6.35	102.6	4.9	0.599	3.13	14.02	--	--	
WELL DAMAGED 2021										

Table 5
Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
MW34	MW34-20211216	12/16/21	7.15	195.3	1.51	0.432	18.5	16.6	--	--
	MW34-20220607	06/07/22	6.41	298.9	7.73	0.360	23.3	14.6	--	--
	MW34-20221214	12/14/22	6.78	321.9	9.82	0.700	29	14.8	--	--
	MW34-20230621	06/21/23	6.09	150.2	8.14	0.488	7.19	15.6	--	--
	MW34-20231206	12/06/23	5.84	-85.8	10.43	0.428	8.93	14.41	--	--
Thomas Street										
MW16	MW16-20130911	09/11/13	7.22	48.0	3.64	0.686	162.0	19.04	--	--
	MW16-20150508	05/08/15	6.40	145.4	0.68	0.676	22.1	15.59	266	0.961
	MW16-20150805	08/05/15	6.10	34.4	0.40	0.771	1.45	16.37	--	--
	MW16-20151210	12/10/15	7.80	114.5	0.73	0.789	1.34	14.90	--	--
	MW16-20160308	03/08/16	6.60	15.7	0.89	0.753	0.72	14.65	--	--
	MW16-20160712	07/12/16	6.68	-90.8	0.47	0.928	0.47	17.38	--	--
	MW16-20161019	10/19/16	6.49	-56.3	0.41	0.788	8.32	15.66	--	9.4
	MW16-20170125	01/25/17	6.57	112.90	0.46	0.703	1.98	14.20	--	13.50
	MW16-20170531	05/31/17	6.71	-106.2	0.65	0.985	3.81	16.63	--	46.0 ^D
	MW16-20170922	09/22/17	6.62	189.4	0.72	0.995	1.35	16.96	--	92.1 ^D
MW16-20171229	12/29/17	6.87	96.9	2.13	0.830	1.95	14.11	--	93.5 ^D	
MW16-20180309	03/09/18	6.70	68.4	0.23	0.941	7.98	15.28	--	1.87	
WELL DAMAGED 2018										
MW28	MW28-20190613	06/13/19	6.62	81.3	1.08	0.867	4.22	18.72	424	--
	MW28-20191009	10/09/19	8.1	87.4	1.58	0.789	5.72	16.13	--	--
	MW28-20191204	12/04/19	6.68	161.5	0.24	0.790	7.72	15.49	391	--
	MW28-20200626	06/26/20	6.70	-71.0	0.55	0.734	6.51	16.60	351	--
	MW28-20201211	12/11/20	6.89	158.9	1.47	0.634	18.9	14.37	304	--
	MW28-20210623	06/23/21	6.69	-48.1	3.67	0.723	7.71	19.66	292	--
	MW28-20211216	12/16/21	7.34	85.3	0.44	0.532	--	14.40	223	--
	MW28-20220609	06/09/22	6.79	81.4	1.20	0.600	16.3	15.10	267	--
	MW28-20221215	12/15/22	7.48	175.9	2.17	0.910	47.5	14.90	248	--
MW28-20230621	06/21/23	7.21	106.2	7.75	0.318	84.1	15.90	160	--	
MW28-20231204	12/04/23	6.62	-117.7	9.35	0.492	33.1	15.15	237	--	
Harrison Street										
MW01	MW01-20150806	08/06/15	5.71	126.9	9.20	0.308	3.41	21.37	--	--
	MW01-20160308	03/08/16	6.63	157.2	7.20	0.215	--	13.07	--	--
	MW01-20160712	07/12/16	6.69	157.7	7.48	0.225	24.9	17.28	--	--
	MW01-20161018	10/18/16	6.73	125.0	8.01	0.228	3.90	15.31	--	--
	MW01-20170124	01/24/17	6.72	144.0	8.00	0.222	2.27	13.25	--	--
	MW01-20170531	05/31/17	6.15	-30.9	8.24	0.262	8.66	15.17	--	--
	MW01-20171214	12/14/17	6.23	73.1	4.89	0.253	26.8	11.21	--	--
	MW01-20180309	03/09/18	6.34	185.7	5.40	0.219	5.27	12.87	--	--
	MW01-20180628	06/28/18	6.37	112.2	3.85	0.255	2.32	15.93	--	--
	MW01-20180920	09/20/18	6.35	179.8	5.91	0.260	2.82	16.10	--	--
	MW01-20181214	12/14/18	6.45	114.3	6.46	0.244	2.90	14.44	--	--
	MW01-20190614	06/14/19	6.30	111.2	8.19	0.288	1.73	15.45	--	--
	MW01-20191205	12/05/19	6.65	-80.8	7.20	0.325	2.61	13.81	--	--
	MW01-20200626	06/26/20	6.29	170.2	6.86	0.381	23.7	16.60	--	--
	MW01-20201211	12/11/20	6.36	187.7	11.11	0.442	4.37	14.11	--	--
	MW01-20210624	06/24/21	6.12	12.8	7.96	0.467	7.13	16.94	--	--
	MW01-20211215	12/15/21	6.41	5.4	7.07	0.536	3.30	14.01	--	--
	MW01-20220607	06/07/22	6.34	44.0	7.60	0.417	3.1	15.67	--	--
MW01-20221214	12/14/22	6.39	184.7	8.34	0.283	5.7	14.90	--	--	
MW01-20230621	06/21/23	6.69	196.9	8.35	0.453	4.4	15.90	--	--	
MW01-20231206	12/06/23	6.34	258.7	8.02	0.471	3.09	15.3	--	--	
MW26	MW26-20151210	12/10/15	8.26	142.3	4.58	0.359	34.8	14.39	--	--
	MW26-20160307	03/07/16	6.54	108.6	0.93	0.234	3.21	14.20	--	--
	MW26-20160712	07/12/16	6.28	101.8	5.39	0.313	1.30	16.08	--	--
	MW26-20161018	10/18/16	6.39	181.0	5.55	0.312	7.52	14.69	--	--
	MW26-20170124	01/24/17	6.49	75.0	0.88	0.316	2.67	13.80	--	--
	MW26-20170531	05/31/17	6.50	213.1	0.86	0.230	2.97	14.82	--	--
	MW26-20170921	09/21/17	6.15	182.7	0.35	0.268	5.98	14.91	--	--
	MW26-20171214	12/14/17	6.06	163.4	0.32	0.354	2.66	12.65	--	--
	MW26-20180309	03/09/18	6.39	166.2	0.28	0.281	8.47	13.37	--	--
	MW26-20180628	06/28/18	6.21	68.0	0.28	0.379	8.52	15.44	--	--
	MW26-20180920	09/20/18	6.23	174.5	0.28	0.359	3.98	15.90	--	--
	MW26-20181214	12/14/18	6.23	23.8	0.62	0.196	5.96	13.96	103	1.23
	MW26-20190614	06/14/19	6.27	83.0	0.59	0.370	6.41	15.73	78.0	1.13
	MW26-20191205	12/05/19	6.58	-107.00	0.70	0.279	7.07	14.04	103	21.2 ^B
	MW26-20200626	06/26/20	6.17	10.50	0.19	0.369	7.84	15.50	124	1.39
	MW26-20201211	12/11/20	6.46	184.90	0.64	0.196	4.67	13.27	93.1	1.02
	MW26-20210623	06/23/21	6.6	14.90	0.33	0.303	7.36	16.10	114	1.30
	MW26-20211215	12/15/21	6.87	-23.60	0.55	0.356	5.80	13.71	127	0.900
	MW26-20220608	06/08/22	6.3	224.50	5.92	0.500	60	15.50	85.5	1.99
MW26-20221214	12/14/22	6.93	291.60	3.27	0.750	>200	15.30	139	1.06	
MW26-20230622	06/22/23	6.55	68.10	2.01	0.429	143	16.40	147	1.08	
MW26-20231206	12/06/23	6.24	-73.30	9.56	0.100	113	14.64	63.0	1.03	

Table 5
Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)	
MW32	MW32-20191009	10/09/19	6.16	-39.9	2.22	0.208	9.71	13.35	--	--	
	MW32-20191205	12/05/19	5.92	-9.0	2.26	0.167	23.6	10.44	--	--	
	MW32-20200626	06/26/20	5.98	118.9	3.54	0.251	6.92	15.20	--	--	
	MW32-20201212	12/12/20	6.48	169.0	5.04	0.334	36.6	14.48	--	--	
	MW32-20210624	06/24/21	6.37	156.4	2.79	0.271	14.9	15.80	--	--	
	MW32-20211215	12/15/21	6.36	-36.9	0.86	0.280	11.0	14.16	--	--	
	MW32-20220607	06/07/22	6.25	292.8	0.54	0.289	57.4	14.50	--	--	
	MW32-20221214	12/14/22	7.1	279.9	2.60	0.479	146.0	14.50	--	--	
	MW32-20230621	06/21/23	6.47	137.0	4.66	0.329	61.3	15.40	--	--	
MW32-20231205	12/05/23	6.32	190.5	3.18	0.342	336	12.97	--	--		
MW33	MW33-20191009	10/09/19	8.03	97.2	4.32	0.257	7.3	15.85	--	--	
	MW33-20191205	12/05/19	6.38	-25.6	5.79	0.170	3.43	11.28	--	--	
	--	06/26/20	WELL DRY, UNABLE TO SAMPLE								
	--	12/10/20	WELL DRY, UNABLE TO SAMPLE								
	MW33-20210624	06/24/21	6.91	181.6	7.75	0.387	22.8	16.7	--	--	
	MW33-20211216	12/16/21	7.26	213.1	1.38	0.371	35.9	14.7	--	--	
	MW33-20220607	06/07/22	6.75	222.8	7.15	0.299	12.7	14.8	--	--	
	MW33-20221213	12/13/22	6.75	133.3	7.56	0.527	29.2	14.6	--	--	
	MW33-20230620	06/20/23	6.75	204.6	7.46	0.594	58.5	15.5	--	--	
MW33-20231205	12/05/23	6.11	223.8	6.84	0.206	23.2	11.51	--	--		
South-Adjoining Property											
MW29	MW29-20191008	10/08/19	6.55	-146.2	1.67	0.777	32	14.09	--	--	
	MW29-20191204	12/04/19	6.28	155.3	0.56	0.937	9.23	15.10	--	--	
	MW29-20200625	06/25/20	6.59	33.2	0.70	0.960	9.70	16.70	--	--	
	MW29-20201210	12/10/20	6.69	81.3	1.58	0.872	5.87	15.03	--	--	
	MW29-20210622	06/22/21	6.59	45.5	4.96	0.870	3.10	17.99	--	--	
	MW29-20211215	12/15/21	7.15	110.8	0.36	0.860	7.79	14.60	--	--	
	MW29-20220607	06/07/22	6.7	55.7	1.03	0.700	8.5	15.31	--	--	
WELL DECOMMISSIONED 2022											
MW29R	MW29R-20230824	08/24/23	6.46	-61.9	0.18	0.85	19.9	17.9	--	--	
	MW29R-202401	01/05/24	7.47	137.7	2.97	0.574	9.13	14.4	--	--	
MW30	MW30-20191008	10/08/19	2.98	133.8	2.30	0.495	158	15.29	--	--	
	MW30-20191204	12/04/19	5.88	173.1	0.4	0.440	13.9	14.30	--	--	
	MW30-20200625	06/25/20	6.12	61.9	5.92	0.488	22.7	20.10	--	--	
	MW30-20201210	12/10/20	6.17	125	2.18	0.475	38.0	14.36	--	--	
	MW30-20210623	06/23/21	6.30	136.3	1.29	0.419	113.0	17.90	--	--	
	MW30-20211215	12/15/21	6.63	72.8	0.70	0.471	26.4	14.90	--	--	
	MW30-20220606	06/06/22	6.19	69.8	1.29	0.338	130	15.20	--	--	
WELL DECOMMISSIONED 2022											
MW35	MW35-20230824	08/24/23	5.82	105.9	1.30	0.480	18.9	17.6	--	--	
	MW35-20240105	01/05/24	6.91	174.6	2.34	0.467	8.82	14.3	--	--	
ONNI-MW-4	ONNI-MW-4-20191208	12/08/19	6.46	-157.2	1.40	0.469	49.0	13.69	--	--	
	ONNI-MW-4-20200625	06/25/20	6.97	-12.1	4.20	0.507	91.0	16.70	--	--	
	ONNI-MW-4-20201210	12/10/20	7.06	182	1.99	0.472	245.0	13.15	--	--	
	ONNI-MW-4-20210622	06/22/21	7.18	180.9	1.84	0.530	3713.0	23.30	--	--	
	ONNI-MW-4-20211215	12/15/21	7.54	118.4	0.60	0.540	51.7	14.40	--	--	
WELL DECOMMISSIONED 2022											
ONNI-MW-5	ONNI-MW-5-20191208	12/08/19	6.92	-176.5	1.7	0.423	45.0	12.75	--	--	
	ONNI-MW-5-20200206	02/06/20	7.11	-38.1	1.17	0.368	20.5	14.79	--	--	
	ONNI-MW-5-20200625	06/25/20	7.24	33.1	2.12	0.436	39.3	15.70	--	--	
	ONNI-MW-5-20201209	12/09/20	7.21	131.6	0.38	0.405	15.0	14.81	--	--	
	ONNI-MW-5-20210623	06/23/21	7.43	27.9	1.74	0.412	overrange	17.53	--	--	
	ONNI-MW-5-20211214	12/14/21	7.41	-155.7	0.25	0.343	125	14.10	--	--	
WELL DECOMMISSIONED 2022											
ONNI-MW-9	ONNI-MW-9-20211214	12/14/21	6.37	20.5	0.4	0.379	115	13.2	--	--	
	ONNI-MW-9-20220606	06/06/22	6.27	329.1	15.41	0.550	55.1	15.3	--	--	
WELL DECOMMISSIONED 2022											

NOTES:

Analyses performed by Friedman & Bruya, Inc., Fremont Analytical Inc., or Aquatic Research Inc., of Seattle, Washington; or Amtest Inc. of Kirkland, Washington.

⁽¹⁾Parameter is measured in the field using water quality meter with flow-through cell. The reported value is the last reading prior to sampling groundwater.

⁽²⁾Analyzed by SM 2320B.

⁽³⁾Analyzed by SM 5310C.

⁽⁴⁾Elevated turbidity measurement as groundwater was purged from the base of the well.

Laboratory Notes:

^(d)Dilution was required.

^(e)Analyte detected in the associated Method Blank.

*Anomalous reading, attributed to meter error.

-- = not measured/ not applicable

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

°C = degrees Celsius

CaCO₃ = calcium carbonate

mg/L = milligrams per liter

mS/cm = milliSiemen per centimeter

mV = millivolts

NTU = nephelometric turbidity unit

ORP = oxidation-reduction potential

SM = Standard Method



Table 6
Groundwater Analytical Results for Volatile Fatty Acids
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Lactate ⁽¹⁾ (mg/L)	Acetate ⁽¹⁾ (mg/L)	Propionate ⁽¹⁾ (mg/L)	Formate ⁽¹⁾ (mg/L)	Butyrate ⁽¹⁾ (mg/L)	Pyruvate ⁽¹⁾ (mg/L)	Lactic ⁽²⁾ (mg/L)	Acetic ⁽³⁾ (mg/L)	Total Organic Carbon ⁽⁴⁾ (mg/L)
MW07	MW07-20160308	03/08/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	0.862
	MW07-20160713	07/16/16	--	--	--	--	--	--	<20	<20 ^{X,D}	0.83
	MW07-20161019	10/19/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.7
	MW07-20170124	01/24/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.25
	MW07-20170531	05/31/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.58
	MW07-20180308	03/08/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	0.877
	MW07-20180629	06/29/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.80
MW07-20180920	09/20/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	0.963	
MW16	MW16-20161019	10/19/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	9.4
	MW16-20170125	01/25/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	13.5
	MW16-20170531	05/31/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	46.0 ^D
	MW16-20170922	09/22/17	<0.39	1.1	<0.31	2	<0.41	<0.69	--	--	92.1 ^D
	MW16-20171229	12/29/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	93.5 ^D
	MW16-20180309	03/09/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.87
WELL DAMAGED 2018											
MW18	MW18-20150506	05/06/15	--	--	--	--	--	--	--	--	<0.500
	MW18-20160308	03/08/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.01
	MW18-20160714	07/14/16	--	--	--	--	--	--	<100	64 ^{X,D}	2,300
	MW18-20161020	10/20/16	<7.8	959	494	<4.4	131	<14	--	--	1,900
	MW18-20170126	01/26/17	<7.8	830	200	<4.4	121	<14	--	--	823
	MW18-20170601	06/01/17	<7.8	512	300	<4.4	115	<14	--	--	1,090 ^D
	MW18-20170923	09/23/17	<0.39	25	232	<0.22	<0.41	2	--	--	253 ^D
	MW18-20171216	12/16/17	<0.39	<0.54	81	0.79	<0.41	<0.69	--	--	173 ^D
	MW18-20180310	03/10/18	<0.39	193	79	0.55	1.6	1.7	--	--	108 ^D
	MW18-20180630	06/30/18	<0.39	28	53	<0.22	<0.41	<0.69	--	--	47.2 ^D
	MW18-20180922	09/22/18	<0.39	26	5.4	<0.22	<0.41	<0.69	--	--	37.8 ^D
	MW18-20190615	06/15/19	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	11
	MW18-20191207	12/07/19	<0.39	10	<0.31	<0.22	<0.41	<0.69	--	--	--
	MW18-20200627	06/27/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	5.95
	MW18-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.30
	MW18-20210625	06/25/21	<0.39	1.8	<0.31	<0.22	<0.41	<0.69	--	--	6.85
	MW18-20211217	12/17/21	<0.39	<0.54	<0.31	<0.22	<0.47	<0.69	--	--	11.9
	MW18-20220609	06/09/22	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.97
	MW18-20221215	12/15/22	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.18
MW18-20230622	06/22/23	1.6 ^J	<1.4	<0.10	0.42	<0.06	<0.15	--	--	5.69	
MW18-20231207	12/07/23	<0.50	0.42 ^I	<0.26	<0.25	<0.06	<0.75	--	--	5.31	



Table 6
Groundwater Analytical Results for Volatile Fatty Acids
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Lactate ⁽¹⁾ (mg/L)	Acetate ⁽¹⁾ (mg/L)	Propionate ⁽¹⁾ (mg/L)	Formate ⁽¹⁾ (mg/L)	Butyrate ⁽¹⁾ (mg/L)	Pyruvate ⁽¹⁾ (mg/L)	Lactic ⁽²⁾ (mg/L)	Acetic ⁽³⁾ (mg/L)	Total Organic Carbon ⁽⁴⁾ (mg/L)
MW21	MW21-20160309	03/09/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	2.29
	MW21-20160713	07/13/16	--	--	--	--	--	--	<100	<100 ^{xD}	1,800
	MW21-20161020	10/20/16	<7.8	509	1,032	<4.4	43	<14	--	--	1,800
	MW21-20170126	01/26/17	<0.39	201	311	1.1	31	0.91	--	--	884
	MW21-20170601	06/01/17	<7.8	682	393	<4.4	88	<14	--	--	755 ^D
	MW21-20170924	09/24/17	<7.8	880	507	<4.4	148	<14	--	--	871 ^D
	MW21-20171216	12/16/17	<7.8	630	151	45	148	13	--	--	722 ^D
	MW21-20180310	03/10/18	<0.39	490	124	1.0	73	16	--	--	466 ^D
	MW21-20180630	06/30/18	<7.8	811	278	<4.4	151	28	--	--	718 ^D
	MW21-20180922	09/22/18	<0.39	460	173	<0.22	114	<0.69	--	--	549 ^D
	MW21-20190615	06/15/19	<0.39	140	66	<0.22	12	4	--	--	163 ^D
	MW21-20191207	12/07/19	<0.39	116	7.2	<0.22	13	12	--	--	--
	MW21-20200627	06/27/20	<0.39	249	144	20	79	19	--	--	--
	MW21-20201212	12/12/20	<0.69	157	89	0.72	36	9.1	--	--	191 ^D
	MW21-20210625	6/25/21	<0.39	189	85	<0.22	50	15	--	--	349 ^D
MW21-20211217	12/17/21	<0.39	174	62	1.5	31	16	--	--	330	
MW21-20220609	06/09/22	<0.39	<0.54	<0.31	0.64	<0.41	<0.69	--	--	123 ^D	
MW21-20221215	12/15/22	<0.39	161	6.1	<0.22	14	4.1	--	--	104 ^D	
MW21-20230623	06/23/23	<0.62	136	7.4	<1.3	8.7	0.93 ^J	--	--	25.5	
MW21-20231207	12/07/23	<0.50	213	<0.26	9.0	9.3	<0.75	--	--	109	
MW22	MW22-20190615	06/15/19	<0.39	270	150	<0.22	39	13	--	--	286 ^D
	MW22-20191207	12/07/19	<0.39	418	134	<0.22	42	13	--	--	--
	MW22-20200627	06/27/20	<0.39	283	56	<0.22	21	7.3	--	--	206 ^D
	MW22-20201212	12/12/20	<0.69	142	22	--	8.8	1.2	--	--	95.5 ^D
	MW22-20210625	06/25/21	<0.39	254	14	<0.22	36	2.4	--	--	349 ^D
	MW22-20211217	12/17/21	<0.39	169	16	<0.22	14	1.9	--	--	133 ^D
	MW22-20220609	06/09/22	<0.39	168	17	0.6	12	1.3	--	--	42.0
	MW22-20221216	12/16/22	<0.39	191	1.5	<0.22	20	2.5	--	--	105 ^D
MW22-20230623	06/23/23	<0.62	173	5.0	3.6	12	1.7 ^J	--	--	82.7	
MW22-20231207	12/07/23	<0.50	218	2.8	<0.25	7.2	<0.75	--	--	76.8	



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Well Identification	Sample Identification	Sample Date	Lactate ⁽¹⁾ (mg/L)	Acetate ⁽¹⁾ (mg/L)	Propionate ⁽¹⁾ (mg/L)	Formate ⁽¹⁾ (mg/L)	Butyrate ⁽¹⁾ (mg/L)	Pyruvate ⁽¹⁾ (mg/L)	Lactic ⁽²⁾ (mg/L)	Acetic ⁽³⁾ (mg/L)	Total Organic Carbon ⁽⁴⁾ (mg/L)	
MW23	MW23-20150507	05/07/15	--	--	--	--	--	--	--	--	<0.500	
	MW23-20160308	03/08/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	3.14	
	MW23-20160714	07/14/16	--	--	--	--	--	--	<100	<100 ^x	2,300	
	MW23-20161020	10/20/16	<7.8	986	1,229	<4.4	144	<14	--	--	2,300	
	MW23-20170126	01/26/17	<7.8	613	256	<4.4	57	<14	--	--	520	
	MW23-20170601	06/01/17	<7.8	1,300	656	<4.4	280	<14	--	--	1,620 ^D	
	MW23-20170923	09/23/17	<7.8	705	388	<4.4	295	59	--	--	1,160 ^D	
	MW23-20171216	12/16/17	<0.39	131	176	8.0	106	31	--	--	865 ^D	
	MW23-20180310	03/10/18	<0.39	25	151	2.8	<0.41	7.2	--	--	127 ^D	
	MW23-20180630	06/30/18	<0.39	52	213	<0.22	<0.41	8.5	--	--	198 ^D	
	MW23-20180922	09/22/18	<0.39	26	230	<0.22	<0.41	<0.69	--	--	159 ^D	
	MW23-20190615	06/15/19	<0.39	19	86	<0.22	0.42	1.8	--	--	60.7 ^D	
	MW23-20191207	12/07/19	<0.39	24	<0.31	<0.31	2.7	<0.41	<0.69	--	--	--
	MW23-20200627	06/27/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.41	
MW23-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.90		
MW23-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.65		
MW23-20211217	12/17/21	<0.39	<0.54	<0.31	<0.22	<0.47	<0.69	--	--	6.10		
MW24	MW24-20150506	05/06/15	--	--	--	--	--	--	--	--	1.12	
	MW24-20160309	03/09/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	2.19	
	MW24-20160715	07/15/16	--	--	--	--	--	--	<100	56.7 ^{x,D}	1,000	
	MW24-20161020	10/20/16	<7.8	1,431	143	<4.4	20	<14	--	--	640	
	MW24-20170126	01/26/17	<7.8	901	133	<4.4	34	<14	--	--	375	
	MW24-20170601	06/01/17	<7.8	1,036	204	78	251	<14	--	--	1,470 ^D	
	MW24-20170924	09/24/17	<0.39	28	140	4.2	38	7.9	--	--	390 ^D	
	MW24-20171216	12/16/17	<0.39	12	70	1.2	2.0	0.80	--	--	233 ^D	
	MW24-20180310	03/10/18	<0.39	8.0	10	<0.22	<0.41	<0.69	--	--	22.1 ^D	
	MW24-20180630	06/30/18	<7.8	681	164	<4.4	123	<13.8	--	--	770 ^D	
	MW24-20180922	09/22/18	<0.39	26	10	<0.22	1	<0.69	--	--	45.5 ^D	
	MW24-20190615	06/15/19	<0.39	39	5.6	<0.22	0.46	<0.69	--	--	20.5	
	MW24-20191207	12/07/19	5.7	29	<0.31	3.0	<0.41	<0.69	--	--	--	
	MW24-20200627	06/27/20	<0.39	<0.54	0.60	<0.22	<0.41	<0.69	--	--	8.44	
	MW24-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.95	
	MW24-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.52	
	MW24-20211217	12/17/21	<0.39	<0.54	<0.31	<0.22	1.7	<0.69	--	--	<0.500	
MW24-20220609	06/09/22	<0.39	1.0	<0.31	0.92	<0.41	<0.69	--	--	5.79		
MW24-20221216	12/16/22	<0.39	9.4	<0.31	<0.22	<0.41	<0.69	--	--	8.08 ^D		
MW24-20230623	06/23/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	4.60		
MW24-20231207	12/07/23	<0.50	0.38 ^f	<0.26	<0.25	<0.06	<0.75	--	--	4.24		



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Seattle, Washington

Well Identification	Sample Identification	Sample Date	Lactate ⁽¹⁾ (mg/L)	Acetate ⁽¹⁾ (mg/L)	Propionate ⁽¹⁾ (mg/L)	Formate ⁽¹⁾ (mg/L)	Butyrate ⁽¹⁾ (mg/L)	Pyruvate ⁽¹⁾ (mg/L)	Lactic ⁽²⁾ (mg/L)	Acetic ⁽³⁾ (mg/L)	Total Organic Carbon ⁽⁴⁾ (mg/L)
MW25	MW25-20150507	05/07/15	--	--	--	--	--	--	--	--	<0.500
	MW25-20190615	06/15/19	<0.39	45	1.3	<0.22	1.3	<0.69	--	--	25.80
	MW25-20191207	12/07/19	<0.39	21	<0.31	2.9	<0.41	<0.69	--	--	--
	MW25-20200627	06/27/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	5.21
	MW25-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	9.57
	MW25-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.50
	MW25-20211217	12/17/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.18
	MW25-20220609	06/09/22	<0.39	<0.54	<0.31	0.80	<0.41	<0.69	--	--	2.29
	MW25-20221216	12/16/22	<0.39	6.5	<0.31	<0.22	<0.41	<0.69	--	--	1.16
MW25-20230623	06/23/23	1.7 ^J	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	1.56	
MW25-20231207	12/07/23	<0.50	0.38 ^I	<0.26	<0.25	<0.06	<0.75	--	--	1.59	
IW04	IW04-20150508	05/08/15	--	--	--	--	--	--	--	--	<0.500
	IW04-20190615	06/15/19	<0.39	31	6.1	<0.22	3.2	0.42	--	--	148 ^D
	IW04-20191207	12/07/19	<0.39	25	<0.31	3.3	<0.41	<0.69	--	--	--
	IW04-20200627	06/27/20	<0.39	8.2	1.5	<0.22	1.5	<0.69	--	--	88.7 ^D
	IW04-20201212	12/12/20	<0.69	6.2	3.1	<0.22	2.1	<0.69	--	--	90.3 ^D
	IW04-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	93.1 ^D
	IW04-20211217	12/17/21	<0.39	2.4	1.2	<0.22	<0.47	<0.69	--	--	101 ^D
	IW04-20220609	06/09/22	<0.39	178	45	5.9	29	16	--	--	75.6 ^D
	IW04-20221215	12/15/22	<0.39	7.2	<0.31	<0.22	<0.41	<0.69	--	--	30.5 ^D
IW04-20230622	06/22/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	24.3	
IW04-20231207	12/07/23	<0.50	0.60 ^I	<0.26	<0.25	<0.06	<0.75	--	--	21.5	
IW50	IW50-20160309	03/09/16	<0.39	358	82	1.1	22	<0.69	--	--	115
	IW50-20160715	07/15/16	--	--	--	--	--	--	<100	<100 ^D	1,100
	IW50-20161021	10/21/16	<7.8	1,492	683	8.2	476	<14	--	--	1,600
	IW50-20170126	01/26/17	<0.39	73	102	4.0	61	9.4	--	--	391
	IW50-20170602	06/02/17	<0.39	39	5.2	<0.22	1.3	<0.69	--	--	85.2 ^D
	IW50-20170924	09/24/17	<0.39	87	108	<0.22	4.2	2.5	--	--	214 ^D
	IW50-20171216	12/16/17	--	43	8.0	<0.22	<0.41	<0.69	--	--	224 ^D
	IW50-20180310	03/10/18	<0.39	41	3.1	<0.22	0.79	<0.69	--	--	55.0 ^D
	IW50-20180630	06/30/18	<0.39	4.9	<0.31	<0.22	<0.41	<0.69	--	--	41.9 ^D
	IW50-20180922	09/22/18	<0.39	2.3	<0.31	<0.22	<0.41	<0.69	--	--	29.6 ^D
	IW50-20190615	06/15/19	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.56
	IW50-20191207	12/07/19	<0.39	18	<0.31	3.3	<0.41	<0.69	--	--	--
	IW50-20200627	06/27/20	<0.39	2.8	<0.31	<0.22	<0.41	<0.69	--	--	18.2
	IW50-20201212	12/12/20	<0.69	1.6	<0.31	<0.22	<0.41	<0.69	--	--	13.7
	IW50-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	16.1
	IW50-20211217	12/17/21	<0.39	9.2	1.3	<0.22	<0.47	<0.69	--	--	38.1
IW50-20220609	06/09/22	--	--	--	--	--	--	--	--	13.5	
IW50-20221216	12/16/22	<0.39	7.4	<0.31	<0.22	<0.41	<0.69	--	--	5.66	
IW50-20230623	06/23/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	6.25	
IW50-202312/07	12/07/23	<0.50	0.88 ^I	<0.26	<0.25	<0.06	<0.75	--	--	5.03	

P:\0731 Touchstone\0731-004 Troy Laundry\Deliverables\2023\2023 GW Report\Tables\0731-004_2023Q4_GWD_Tables T1 to T6.xlsx Table 6-VFA



Table 6
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Seattle, Washington

Well Identification	Sample Identification	Sample Date	Lactate ⁽¹⁾ (mg/L)	Acetate ⁽¹⁾ (mg/L)	Propionate ⁽¹⁾ (mg/L)	Formate ⁽¹⁾ (mg/L)	Butyrate ⁽¹⁾ (mg/L)	Pyruvate ⁽¹⁾ (mg/L)	Lactic ⁽²⁾ (mg/L)	Acetic ⁽³⁾ (mg/L)	Total Organic Carbon ⁽⁴⁾ (mg/L)
IW61	IW61-20160309	03/09/16	<0.39	368	51	0.69	28	<0.69	--	--	114
	IW61-20160713	07/13/16	--	--	--	--	--	--	<100	217 ^{X,D}	2,900
	IW61-20161021	10/21/16	<7.8	1,543	538	122	837	<14	--	--	3,000
	IW61-20170126	01/26/17	<7.8	612	253	38	363	<14	--	--	1,300
	IW61-20170602	06/02/17	<0.39	171	118	<0.22	189	<0.69	--	--	908 ^D
	IW6120170923	09/23/17	<7.8	2,589	231	37	705	19	--	--	1,490 ^D
	IW61-20171216	12/16/17	<0.39	235	151	45	148	13	--	--	765 ^D
	IW61-20180310	03/10/18	<0.39	184	176	31	92	16	--	--	432 ^D
	IW61-20180630	06/30/18	<0.39	111	200	<0.22	44	14	--	--	406 ^D
	IW61-20180922	09/22/18	<0.39	71	170	14	21	<0.69	--	--	228 ^D
	IW61-20190615	06/15/19	<0.39	88	72	<0.22	4.4	0.58	--	--	140 ^D
	IW61-20191207	12/07/19	<0.39	98	7.2	1.8	5	<0.69	--	--	--
	IW61-20200627	06/27/20	<0.39	13	0.62	<0.22	<0.41	<0.69	--	--	55.4 ^D
	IW61-20201212	12/12/20	<0.69	5.1	<0.31	0.60	<0.41	<0.69	--	--	60.6 ^D
	IW61-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	66.2 ^D
	IW61-20211217	12/17/21	<0.39	4.5	<0.31	<0.22	<0.47	<0.69	--	--	72.6 ^D
IW61-20211217	06/09/22	<0.39	1.4	<0.31	<0.22	2.5	<0.69	--	--	81.8 ^D	
IW61-20221216	12/16/22	<0.39	12	<0.31	<0.22	<0.41	<0.69	--	--	81.4 ^D	
IW61-20230623	06/23/23		2.0	4.4	<0.10	1.9 ^J	<0.06	<0.15	--	--	80.4
IW61-202301207	12/07/23		<0.50	<0.30	<0.26	<0.25	<0.06	<0.75	--	--	81.3

NOTES:

⁽¹⁾Analyzed by Ion Chromatography.

⁽²⁾Analyzed by EPA Method 300.0.

⁽³⁾Analyzed by EPA Method 300.0 modified.

⁽⁴⁾Analyzed by SM 5310C or EPA Method 300.0 modified.

Laboratory Notes:

^DThe reported value is from a dilution.

^XAcetic and propionic acids co-eluted. Results are quantitated at acetic acid.

^JThe associated values 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

SM = Standard Method

QL = Quantitation limit

RL = Reporting Limit



Table 7
Summary of Mann-Kendall Non-Parametric Statistical Trend Results
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Number	PCE	TCE	cis-1,2-DCE	VC	Last Sample Date	PCE	TCE	cis-1,2-DCE	VC	Comments
Statistical Concentration Trend - 2015 through 2023					µg/L					
On-Property										
IW04	NA	NA	NA	Increasing	12/07/23	<1	<0.5	<1	<0.2	Northeastern corner of the Property south of the Harrison ROW
IW50	Undetermined ⁽⁴⁾	NA	Decreasing	Increasing	12/07/23	7.6	3.1	22	5.4	Center of the Property near original source area
IW61	NA	NA	Decreasing	Increasing	12/07/23	<1	<0.5	41	3.8	South-center of the Property north of the Thomas ROW and downgradient from the Boren ROW
MW18	NA	NA	NA	Increasing	12/07/23	<1	<0.5	<1	1.3	Center of the Property near original source area and downgradient of the Boren ROW
MW19	NA	NA	NA	Increasing	12/07/23	<1	<0.5	<1	2.8	Center of the Property near original source area and downgradient of the Boren ROW
MW21	NA	NA	NA	Increasing	12/07/23	<1	<0.5	4.5	2.6	Center of the Property near original source area and downgradient of the Boren ROW
MW22	NA	NA	Increasing	Increasing	12/07/23	<1	<0.5	52	1.6	Center of the Property near original source area and downgradient of the Boren ROW
MW24	NA	NA	Stable	Increasing	12/07/23	<1	<0.5	1.5	2	Center of the Property near original source area and downgradient of the Boren ROW
MW25	NA	Decreasing	NA	Increasing	12/07/23	4.1	5.5	3.4	1.9	Center of the Property near original source area and downgradient of the Boren ROW
Boren Avenue										
MW04	NA	Decreasing	NA	NA	12/08/23	<1	9.4	<1	<0.2	Boren ROW upgradient of the Property and downgradient of yet unknown upgradient source area for TCE
MW07	NA	Decreasing	NA	NA	12/08/23	2.1	4.8	<1	<0.2	Boren ROW upgradient of the Property and downgradient of yet unknown upgradient source area for TCE
MW13	Decreasing	NA	NA	NA	12/06/23	5.2	0.67	<1	<0.2	Boren and Thomas Street ROWs cross gradient to the groundwater flow direction
MW27	NA	Stable	NA	NA	12/06/23	<1	4.5	<1	<0.2	Boren ROW upgradient of the Property and downgradient of yet unknown upgradient source area for TCE
Former Seattle Times Site										
MW29-29R	Stable	Stable	Decreasing	Decreasing	12/04/23	8.5	2.2	<1	<0.2	Northern side of former Seattle Times Site
Thomas Street										
MW28	NA	NA	Decreasing	NA	12/04/23	1.6	1.2	10	<0.2	Thomas ROW downgradient of the Property
Harrison Street										
MW26	NA	Decreasing	NA	NA	12/06/23	<1	5.8	<1	<0.2	Harrison ROW upgradient of the Property and downgradient of yet unknown upgradient source area for TCE
Terry Avenue										
MW34	NA	Stable	NA	NA	12/06/23	<1	6.4	<1	<0.2	Terry ROW upgradient of the Property and downgradient of yet unknown upgradient source area for TCE
MTCA Groundwater Cleanup Level						5⁽¹⁾	5⁽¹⁾	16⁽²⁾	0.2⁽¹⁾	
Commercial Worker Groundwater Remediation Level at the Property⁽³⁾						120	12	1,600	1.6	
Roadway Excavation Remediation Level in Right-of-Ways⁽³⁾						760	40	10,000	9.9	

NOTES

ug/L = micrograms per liter

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

CLARC = Cleanup Levels and Risk Calculation

MTCA = Washington State Department of Ecology Model Toxics Control Act

NA = The concentration of analyte not detected above the laboratory reporting limit or the concentration was less than the groundwater cleanup level four sampling events as of 2023

PCE = tetrachloroethylene

ROW = right-of-way

TCE = trichloroethylene

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

VC = vinyl chloride

⁽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>>.

⁽³⁾Table values in CLARC, Ecology's Guidance for Evaluating Vapor Intrusion in Washington State: Investigation and Remedial Action dated 2009, revised 2022, and Ecology's South Lake Union Group Memorandum, dated December 14, 2022.

⁽⁴⁾ Undetermined = Insufficient evidence to identify a significant trend at the specified level of significance

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

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

June 26, 2023

Levi Fernandes, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Fernandes:

Included are the results from the testing of material submitted on June 20, 2023 from the SOU_0731-004-08_20230620, F&BI 306324 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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: Linnea Coleman, Tom Cammarata
SOU0626R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 20, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_20230620, F&BI 306324 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
306324 -01

SoundEarth Strategies
MW33-20230620

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW33-20230620	Client:	SoundEarth Strategies
Date Received:	06/20/23	Project:	SOU_0731-004-08_20230620, F&BI 306324
Date Extracted:	06/21/23	Lab ID:	306324-01
Date Analyzed:	06/21/23	Data File:	062112.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	89	71	132
Toluene-d8	90	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20230620, F&BI 306324
Date Extracted:	06/21/23	Lab ID:	03-1455 mb
Date Analyzed:	06/21/23	Data File:	062107.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	71	132
Toluene-d8	87	68	139
4-Bromofluorobenzene	98	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/23

Date Received: 06/20/23

Project: SOU_0731-004-08_ 20230620, F&BI 306324

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 306261-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	90	16-176
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	94	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	96	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	88	43-133
Tetrachloroethene	ug/L (ppb)	10	<1	106	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCS D		
Vinyl chloride	ug/L (ppb)	10	96	94	43-149	2
trans-1,2-Dichloroethene	ug/L (ppb)	10	100	100	70-130	0
cis-1,2-Dichloroethene	ug/L (ppb)	10	102	102	70-130	0
Trichloroethene	ug/L (ppb)	10	98	97	70-130	1
Tetrachloroethene	ug/L (ppb)	10	102	100	70-130	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported 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.

SAMPLE CHAIN OF CUSTODY

306324

06/20/23

VW/1

Send Report to: Bernardus, Linnea Coleman, Tom Cammarata

Company: SoundEarth Strategies, Inc.

Address: 1011 SW Klickitat Way, Suite 212

City, State, ZIP Seattle, Washington 98134

Phone # 206-306-1900 Fax # _____

SAMPLERS (signature) <u>Bernardus</u> PROJECT NAME/NO. <u>Troy Laundry Property</u>		PO # <u>0731-004-08</u>
REMARKS *cVOCs = PCE, TCE, Cis/Trans-DCE, and VC <u>EIM Y</u>		

Page # 1 of 1

TURNAROUND TIME
Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx	DRPH/ORPH by NWTPH-Dx	cVOCs * by EPA 8260D	Methane, Ethane, Ethene by RSK-175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes
<u>MU33-20230620 MU33</u>			<u>01AC</u>	<u>06/20/23</u>	<u>1445</u>	<u>GW</u>	<u>3</u>			<u>X</u>						<u>BDB 06/22/23</u>
 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	
 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	

Friedman & Brya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	<u>Bernardus</u>	<u>SE</u>	<u>06/20/23</u>	<u>15:54</u>
<u>[Signature]</u>	<u>Bernardus</u>	<u>710 NW 4th St</u>	<u>06/20/23</u>	<u>15:54</u>
Received by: _____				
Relinquished by: _____				
Received by: _____				

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

July 5, 2023

Levi Fernandes, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Fernandes:

Included are the results from the testing of material submitted on June 23, 2023 from the SOU_0731-004-08_ 20230623, F&BI 306390 project. There are 36 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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: Linnea Coleman, Tom Cammarata
SOU0705R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 23, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_20230623, F&BI 306390 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
306390 -01	MW04-20230622
306390 -02	MW26-20230622
306390 -03	MW07-20230622
306390 -04	MW13-20230622
306390 -05	IW04-20230622
306390 -06	IW06-20230622
306390 -07	MW18-20230622
306390 -08	MW19-20230622
306390 -09	MW25-20230623
306390 -10	MW21-20230623
306390 -11	IW50-20230623
306390 -12	MW22-20230623
306390 -13	MW99-20230623
306390 -14	MW24-20230623
306390 -15	IW61-20230623

The samples submitted for ferrous iron, nitrate, sulfate, alkalinity, TOC, and dissolved gases analyses were sent to Fremont Analytical. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_0731-004-08_ 20230623, F&BI 306390

Date Extracted: 06/26/23

Date Analyzed: 06/27/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW13-20230622 306390-04	<100	133
MW21-20230623 306390-10	<100	119
MW22-20230623 306390-12	120	133
Method Blank 03-1400 MB	<100	111

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_0731-004-08_ 20230623, F&BI 306390

Date Extracted: 06/27/23

Date Analyzed: 06/27/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
MW13-20230622 306390-04	<50	<250	104
MW21-20230623 306390-10	5,900 x	3,800 x	ip
MW22-20230623 306390-12	2,900 x	1,500 x	147
Method Blank 03-1510 MB2	<50	<250	115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW04-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-01
Date Analyzed:	06/26/23	Data File:	306390-01.141
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	123
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW26-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-02 x10
Date Analyzed:	06/26/23	Data File:	306390-02 x10.127
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	4,320
Manganese	842

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW07-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-03
Date Analyzed:	06/27/23	Data File:	306390-03.163
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	293
Manganese	9.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW04-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-05 x10
Date Analyzed:	06/26/23	Data File:	306390-05 x10.129
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	15,500
Manganese	6,030

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW18-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-07 x10
Date Analyzed:	06/26/23	Data File:	306390-07 x10.130
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	18,600
Manganese	7,740

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW19-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-08 x100
Date Analyzed:	06/27/23	Data File:	306390-08 x100.164
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	26,600
Manganese	14,600

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW25-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-09 x10
Date Analyzed:	06/26/23	Data File:	306390-09 x10.132
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	4,730
Manganese	5,980

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW50-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-11 x10
Date Analyzed:	06/26/23	Data File:	306390-11 x10.136
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	9,540
Manganese	9,670

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW22-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-12 x10
Date Analyzed:	06/26/23	Data File:	306390-12 x10.137
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	13,300
Manganese	9,840

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW24-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-14 x100
Date Analyzed:	06/27/23	Data File:	306390-14 x100.165
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	12,800
Manganese	22,700

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW61-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-15 x100
Date Analyzed:	06/27/23	Data File:	306390-15 x100.166
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	17,600
Manganese	14,400

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	I3-509 mb
Date Analyzed:	06/26/23	Data File:	I3-509 mb.114
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW04-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-01
Date Analyzed:	06/26/23	Data File:	062629.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	96	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	9.3
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW26-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-02
Date Analyzed:	06/26/23	Data File:	062630.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	11
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW07-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-03
Date Analyzed:	06/26/23	Data File:	062628.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	5.1
Tetrachloroethene	2.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW13-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-04
Date Analyzed:	06/26/23	Data File:	062627.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	4.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW04-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-05
Date Analyzed:	06/26/23	Data File:	062616.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	103	84	115
4-Bromofluorobenzene	107	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.26
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW06-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-06
Date Analyzed:	06/26/23	Data File:	062623.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	78	126
Toluene-d8	94	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	1.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW18-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-07
Date Analyzed:	06/26/23	Data File:	062617.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	78	126
Toluene-d8	107	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.4
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW19-20230622	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-08
Date Analyzed:	06/26/23	Data File:	062618.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	112	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.25
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW25-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-09
Date Analyzed:	06/26/23	Data File:	062625.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	108	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.3
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	2.2
Trichloroethene	3.2
Tetrachloroethene	2.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW21-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-10
Date Analyzed:	06/26/23	Data File:	062620.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	106	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.0
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	1.4
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW50-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-11
Date Analyzed:	06/26/23	Data File:	062624.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	95	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	5.8
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	18
Trichloroethene	0.79
Tetrachloroethene	1.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW22-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-12
Date Analyzed:	06/26/23	Data File:	062619.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	94	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.51
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	21
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW99-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-13
Date Analyzed:	06/26/23	Data File:	062626.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	108	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.3
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	2.3
Trichloroethene	3.4
Tetrachloroethene	2.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW24-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-14
Date Analyzed:	06/26/23	Data File:	062621.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.5
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW61-20230623	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306390-15
Date Analyzed:	06/26/23	Data File:	062622.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	111	78	126
Toluene-d8	106	84	115
4-Bromofluorobenzene	56	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.7
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	36
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	03-1462 mb
Date Analyzed:	06/26/23	Data File:	062615.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	111	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_0731-004-08_ 20230623, F&BI 306390

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 306372-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	99	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_0731-004-08_ 20230623, F&BI 306390

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	96	84	65-151	13

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_0731-004-08_ 20230623, F&BI 306390

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 306390-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	123	106 b	104 b	70-130	2 b
Manganese	ug/L (ppb)	20	<1	98	98	70-130	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	100	85-115
Manganese	ug/L (ppb)	20	94	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_0731-004-08_ 20230623, F&BI 306390

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 306390-07 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	1.4	61	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	53	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	50	10-211
Trichloroethene	ug/L (ppb)	10	<0.5	52	35-149
Tetrachloroethene	ug/L (ppb)	10	<1	54	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent		Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	117	130	64-142	11
trans-1,2-Dichloroethene	ug/L (ppb)	10	98	101	70-130	3
cis-1,2-Dichloroethene	ug/L (ppb)	10	93	96	70-130	3
Trichloroethene	ug/L (ppb)	10	95	100	70-130	5
Tetrachloroethene	ug/L (ppb)	10	101	99	70-130	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported 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.

306390

SAMPLE CHAIN OF CUSTODY

06/23/23

WS3/24/25

Page # of

TURNAROUND TIME

Standard (2 Weeks)
RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

SAMPLERS (signature)

PROJECT NAME/NO.

Troy Laundry Property

PO #

0731-004-08

REMARKS

*cVOCs = PCE, TCE, Cis/Trans-DCE, and VC

EIM Y

Send Report to: Levi Fernandes, Linnea Coleman, Tom Cammarata
 Company: SoundEarth Strategies, Inc.
 Address: 1011 SW Klickitat Way, Suite 212
 City, State, ZIP Seattle, Washington 98134
 Phone # 206-306-1900 Fax # _____

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx	DRPH/ORPH by NWTPH-Dx	cVOCs* by EPA 8260D	Methane, Ethane, Ethene by RSK-175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes
MW04-20230622	MW04	-	015	6/22/23	0840	H2O	10			X	X	X	X	X	X	
MW26-20230622	MW26	-	02		0915		10			X	X	X	X	X	X	
MW07-20230622	MW07	-	03		1010		10			X	X	X	X	X	X	
MW13-20230622	MW13	-	04		1145		5	X	X	X	X	X	X	X	X	
IW04-20230622	IW04	-	05		1438		7			X	X	X	X	X	X	
IW06-20230622	IW06	-	06		1440		3			X	X	X	X	X	X	
MW18-20230622	MW18	-	07		1605		10			X	X	X	X	X	X	
MW19-20230622	MW19	-	08		1615		9			X	X	X	X	X	X	
MW25-20230623	MW25	-	09	6/23/23	0858		10			X	X	X	X	X	X	
MW21-20230623	MW21	-	10		0925		9	X	X	X	X	X	X	X	X	
IW50-20230623	IW50	-	11		1111		10			X	X	X	X	X	X	
MW22-20230623	MW22	-	12		1115		12	X	X	X	X	X	X	X	X	
MW99-20230623	MW99	-	13		1200		3	X	X	X	X	X	X	X	X	

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by:	<i>[Signature]</i>	Linnea Coleman	SES	6/23/23	1718		
Received by:	<i>[Signature]</i>	BISLAT TADASSE	FBI	6/23/23	1718		
Relinquished by:							
Received by:							

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2039
 Ph. (206) 285-8282
 Fax (206) 283-5044

Received by: _____
 Relinquished by: _____

Received by: _____
 Relinquished by: _____

Received by: _____
 Relinquished by: _____

306390

SAMPLE CHAIN OF CUSTODY

06/23/23

vw3/24/24/25/2

Send Report to: Levi Fernandes, Linnea Coleman, Tom Cammarata

Company: SoundEarth Strategies, Inc.

Address: 1011 SW Klickitat Way, Suite 212

City, State, ZIP Seattle, Washington 98134

Phone # 206-306-1900 Fax # _____

SAMPLERS (signature) 	
PROJECT NAME/NO. Troy Laundry Property	PO # 0731-004-08
REMARKS *cVOCs = PCE, TCE, Cis/Trans-DCE, and VC	EIM Y

TURNAROUND TIME Standard (2 Weeks) RUSH
Rush charges authorized by:
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx	DRPH/ORPH by NWTPH-Dx	cVOCs * by EPA 8260D	Methane, Ethane, Ethene by RSK-175	Sulfate, Nitrate, Alkalinity, by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes
MW24-20230623	MW34	-	14	6/23/23	1230	H ₂ O	10			X	X	X	X	X	X	
MW61-20230623	IW61	-	15	6/23/23	1232	H₂O	10			X	X	X	X	X	X	

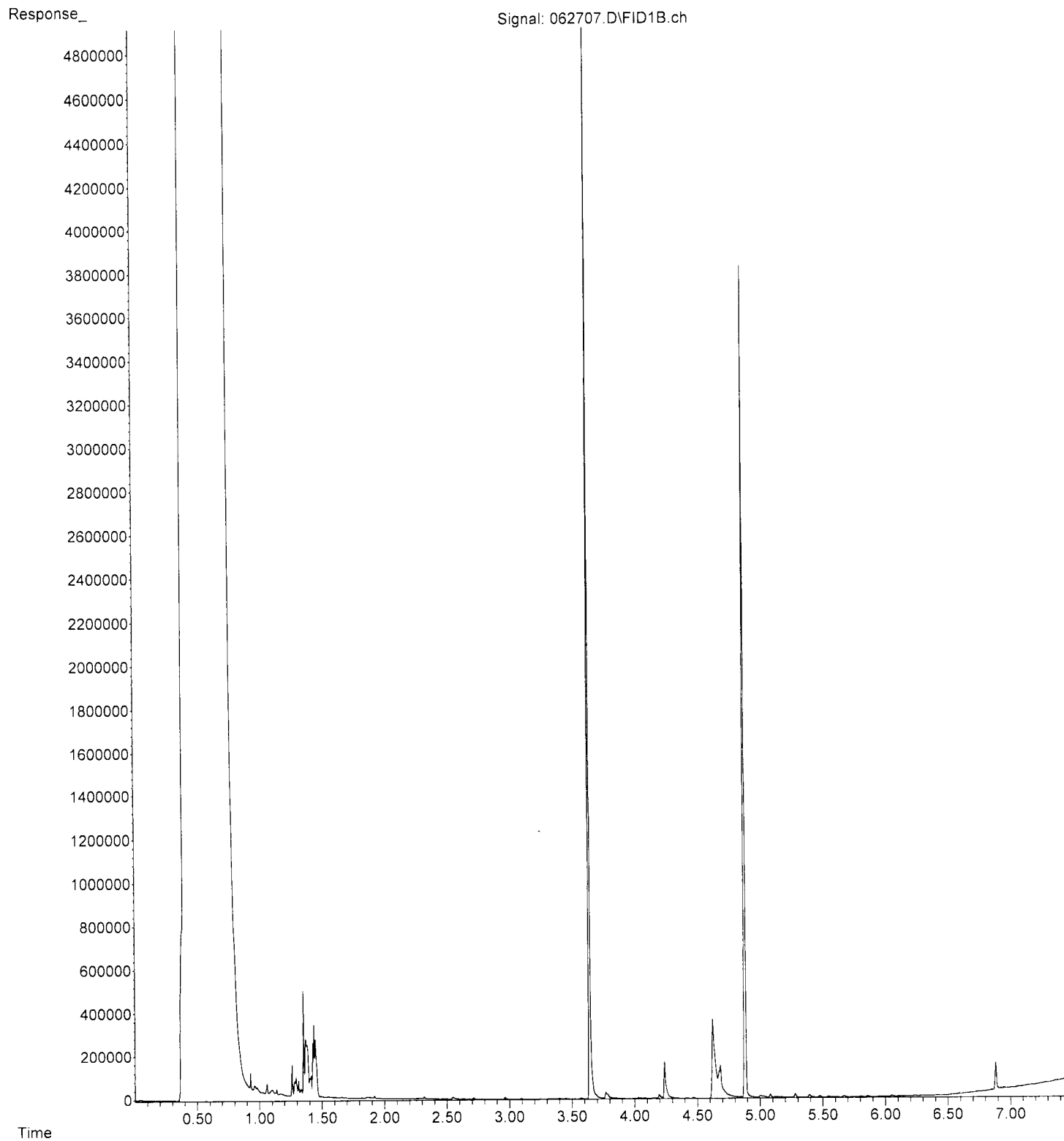
LGL
6/23/23

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	Linnea Coleman	SES	6/23/23	1718
Relinquished by:	BISMAT ADDRESS	FWJ	6/23/23	1718
Received by:	Samples received at	4	dc	

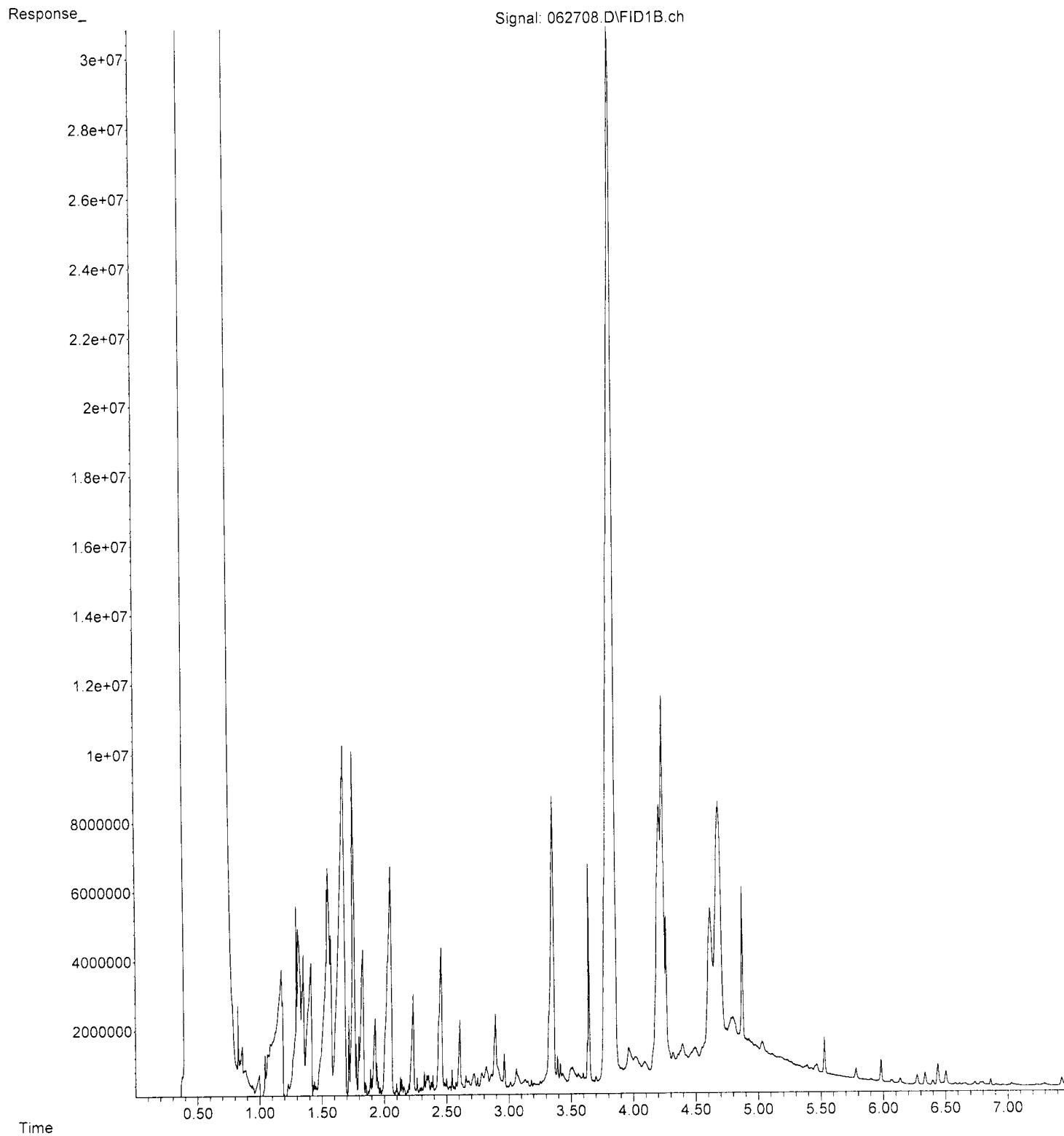
File : P:\Proc_GC14\06-27-23\062707.D
Operator : TL
Acquired : 27 Jun 2023 09:23 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 306390-04
Misc Info :
Vial Number: 7

ERR



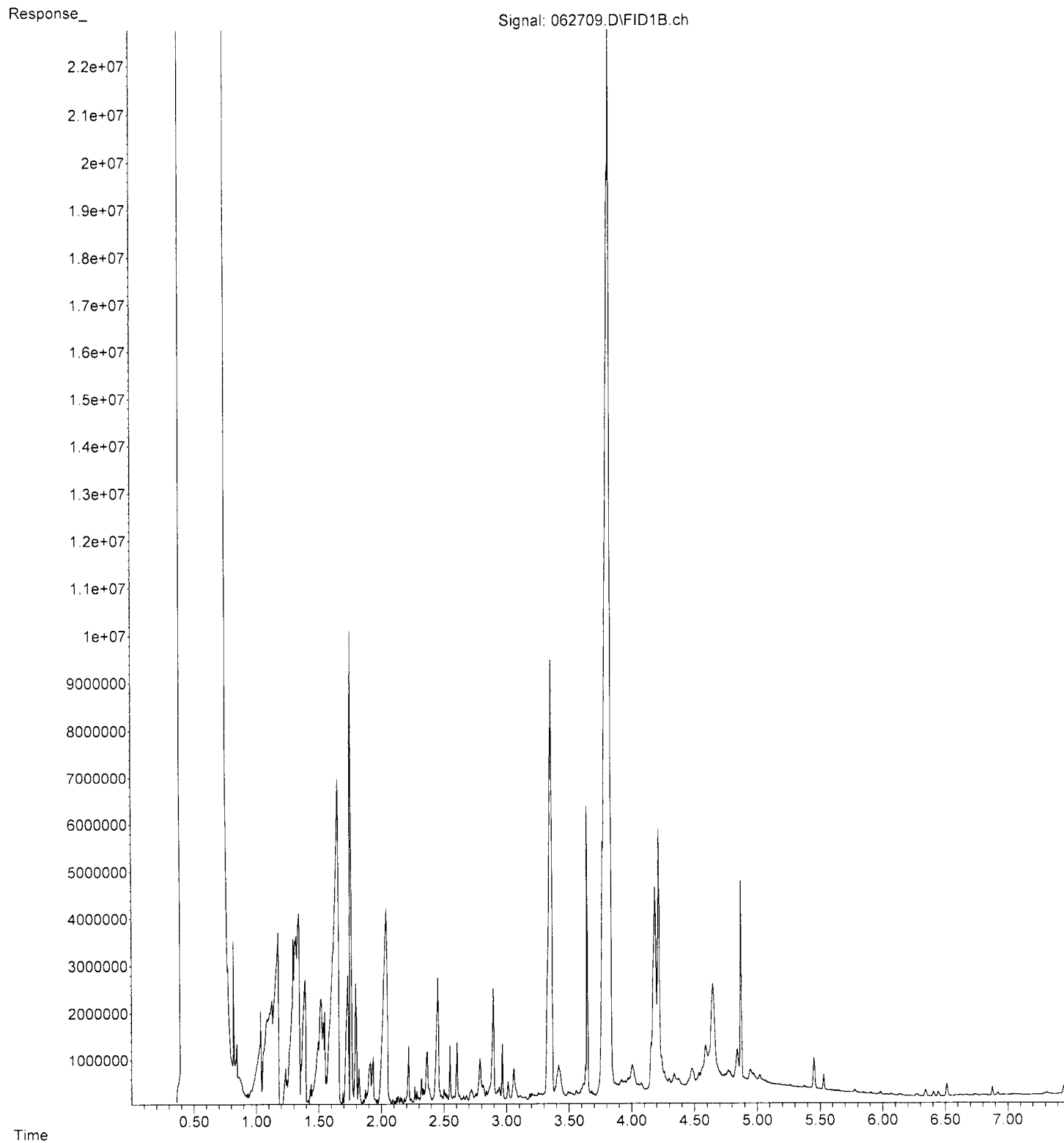
File : P:\Proc_GC14\06-27-23\062708.D
Operator : TL
Acquired : 27 Jun 2023 09:35 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 306390-10
Misc Info :
Vial Number: 8

ERR



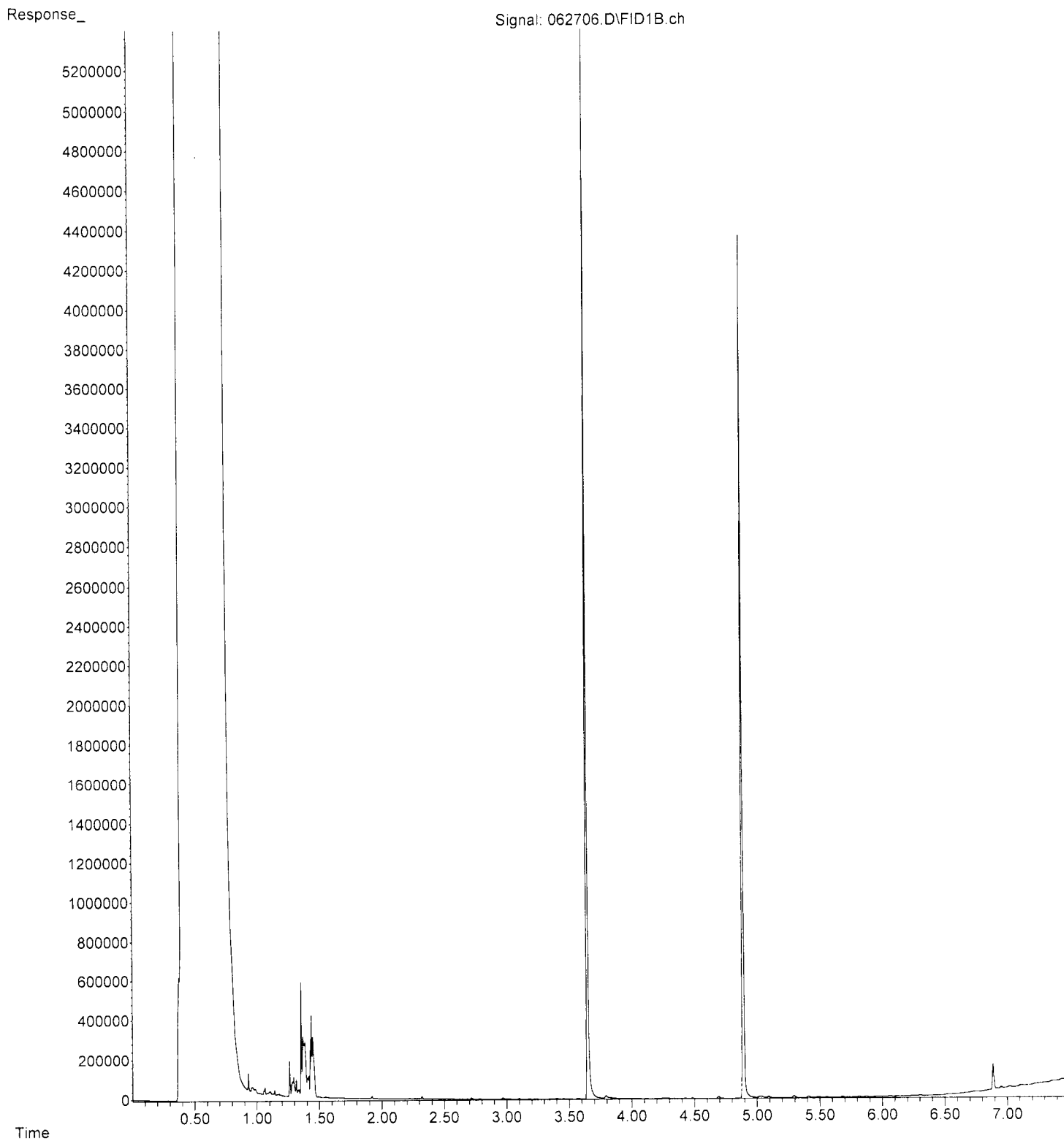
File :P:\Proc_GC14\06-27-23\062709.D
Operator : TL
Acquired : 27 Jun 2023 09:47 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 306390-12
Misc Info :
Vial Number: 9

ERR



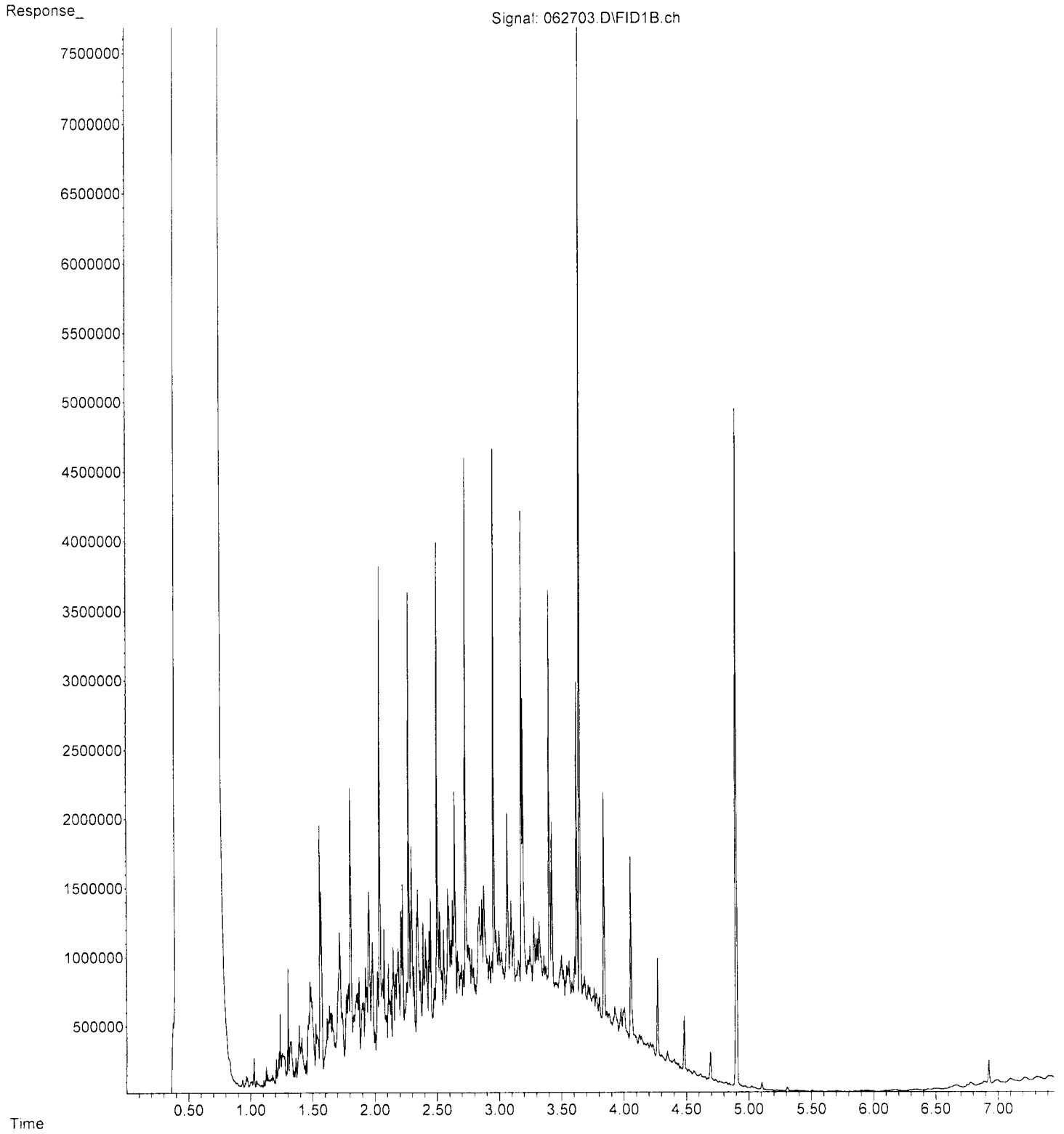
File :P:\Proc_GC14\06-27-23\062706.D
Operator : TL
Acquired : 27 Jun 2023 09:11 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 03-1510 mb2
Misc Info :
Vial Number: 6

ERR



File :P:\Proc_GC14\06-27-23\062703.D
Operator : TL
Acquired : 27 Jun 2023 08:32 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 68-66J
Misc Info :
Vial Number: 3

ERR





3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 306390

Work Order Number: 2306436

July 03, 2023

Attention Michael Erdahl:

Fremont Analytical, Inc. received 12 sample(s) on 6/26/2023 for the analyses presented in the following report.

Dissolved Gases by RSK-175

Ferrous Iron by SM3500-Fe B

Ion Chromatography by EPA Method 300.0

Total Alkalinity by SM 2320B

Total Organic Carbon by SM 5310C

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

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 306390
Work Order: 2306436

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2306436-001	MW04-20230622	06/22/2023 8:40 AM	06/26/2023 11:36 AM
2306436-002	MW26-20230622	06/22/2023 9:15 AM	06/26/2023 11:36 AM
2306436-003	MW07-20230622	06/22/2023 10:10 AM	06/26/2023 11:36 AM
2306436-004	IW04-20230622	06/22/2023 2:38 PM	06/26/2023 11:36 AM
2306436-005	MW18-20230622	06/22/2023 4:05 PM	06/26/2023 11:36 AM
2306436-006	MW19-20230622	06/22/2023 4:15 PM	06/26/2023 11:36 AM
2306436-007	MW25-20230623	06/23/2023 8:58 AM	06/26/2023 11:36 AM
2306436-008	MW21-20230623	06/22/2023 9:25 AM	06/26/2023 11:36 AM
2306436-009	IW50-20230623	06/23/2023 11:11 AM	06/26/2023 11:36 AM
2306436-010	MW22-20230623	06/23/2023 11:15 AM	06/26/2023 11:36 AM
2306436-011	MW24-20230623	06/23/2023 12:30 PM	06/26/2023 11:36 AM
2306436-012	IW61-20230623	06/23/2023 12:32 PM	06/26/2023 11:36 AM

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

CLIENT: Friedman & Bruya

Project: 306390

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: Friedman & Bruya
Project: 306390

Lab ID: 2306436-001

Collection Date: 6/22/2023 8:40:00 AM

Client Sample ID: MW04-20230622

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R85065		Analyst: AM
Methane	ND	0.00675		mg/L	1	6/30/2023 3:14:00 PM
Ethene	ND	0.0146		mg/L	1	6/30/2023 3:14:00 PM
Ethane	ND	0.0151		mg/L	1	6/30/2023 3:14:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 40779		Analyst: AT
Nitrate (as N)	21.8	2.00	DH	mg/L	20	6/29/2023 1:18:00 AM
Sulfate	41.4	3.00	D	mg/L	5	6/27/2023 2:15:00 AM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R85022		Analyst: AT
Total Organic Carbon	0.919	0.700		mg/L	1	6/28/2023 11:45:00 PM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R84944		Analyst: ME
Alkalinity, Total (As CaCO ₃)	57.8	2.50		mg/L	1	6/28/2023 9:07:00 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R84921		Analyst: NR
Ferrous Iron	ND	0.150	H	mg/L	1	6/26/2023 3:30:00 PM



Analytical Report

Work Order: 2306436
Date Reported: 7/3/2023

CLIENT: Friedman & Bruya
Project: 306390

Lab ID: 2306436-002 **Collection Date:** 6/22/2023 9:15:00 AM
Client Sample ID: MW26-20230622 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R85065		Analyst: AM
Methane	ND	0.00675		mg/L	1	6/30/2023 3:22:00 PM
Ethene	ND	0.0146		mg/L	1	6/30/2023 3:22:00 PM
Ethane	ND	0.0151		mg/L	1	6/30/2023 3:22:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 40779		Analyst: AT
Nitrate (as N)	0.133	0.100	H	mg/L	1	6/29/2023 1:41:00 AM
Sulfate	32.1	3.00	D	mg/L	5	6/27/2023 2:39:00 AM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R85022		Analyst: AT
Total Organic Carbon	1.08	0.700		mg/L	1	6/29/2023 12:03:00 AM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R84944		Analyst: ME
Alkalinity, Total (As CaCO3)	147	2.50		mg/L	1	6/28/2023 9:07:00 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R84921		Analyst: NR
Ferrous Iron	0.476	0.150	H	mg/L	1	6/26/2023 3:30:00 PM



Analytical Report

Work Order: 2306436
Date Reported: 7/3/2023

CLIENT: Friedman & Bruya
Project: 306390

Lab ID: 2306436-003

Collection Date: 6/22/2023 10:10:00 AM

Client Sample ID: MW07-20230622

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R85065	Analyst: AM
Methane	ND	0.00675		mg/L	1	6/30/2023 3:26:00 PM
Ethene	ND	0.0146		mg/L	1	6/30/2023 3:26:00 PM
Ethane	ND	0.0151		mg/L	1	6/30/2023 3:26:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 40779	Analyst: AT
Nitrate (as N)	31.0	5.00	DH	mg/L	50	6/29/2023 2:04:00 AM
Sulfate	41.7	3.00	D	mg/L	5	6/27/2023 3:02:00 AM
<u>Total Organic Carbon by SM 5310C</u>					Batch ID: R85022	Analyst: AT
Total Organic Carbon	0.895	0.700		mg/L	1	6/29/2023 12:24:00 AM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R84944	Analyst: ME
Alkalinity, Total (As CaCO3)	29.2	2.50		mg/L	1	6/28/2023 9:07:00 AM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R84921	Analyst: NR
Ferrous Iron	ND	0.150	H	mg/L	1	6/26/2023 3:30:00 PM



Analytical Report

Work Order: 2306436
Date Reported: 7/3/2023

CLIENT: Friedman & Bruya
Project: 306390

Lab ID: 2306436-004

Collection Date: 6/22/2023 2:38:00 PM

Client Sample ID: IW04-20230622

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 40772		Analyst: AT
Nitrate (as N)	ND	0.500	DH	mg/L	5	6/27/2023 4:12:00 AM
Sulfate	ND	3.00	D	mg/L	5	6/27/2023 4:12:00 AM
NOTES: Diluted due to matrix.						
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R85022		Analyst: AT
Total Organic Carbon	24.3	0.700		mg/L	1	6/29/2023 1:51:00 AM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R85008		Analyst: ME
Alkalinity, Total (As CaCO ₃)	285	2.50		mg/L	1	6/29/2023 10:21:47 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R84921		Analyst: NR
Ferrous Iron	19.4	3.75	DH	mg/L	25	6/26/2023 3:30:00 PM

CLIENT: Friedman & Bruya
Project: 306390

Lab ID: 2306436-005

Collection Date: 6/22/2023 4:05:00 PM

Client Sample ID: MW18-20230622

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R85066		Analyst: AM
Methane	2.93	0.135	D	mg/L	20	7/3/2023 11:06:00 AM
Ethene	ND	0.0146		mg/L	1	6/30/2023 3:31:00 PM
Ethane	ND	0.0151		mg/L	1	6/30/2023 3:31:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 40772		Analyst: AT
Nitrate (as N)	ND	0.500	DH	mg/L	5	6/27/2023 4:35:00 AM
Sulfate	ND	3.00	D	mg/L	5	6/27/2023 4:35:00 AM
NOTES: Diluted due to matrix.						
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R85022		Analyst: AT
Total Organic Carbon	5.69	0.700		mg/L	1	6/29/2023 3:33:00 AM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R85008		Analyst: ME
Alkalinity, Total (As CaCO ₃)	419	2.50		mg/L	1	6/29/2023 10:21:47 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R84921		Analyst: NR
Ferrous Iron	18.4	3.75	DH	mg/L	25	6/26/2023 3:30:00 PM

CLIENT: Friedman & Bruya
Project: 306390

Lab ID: 2306436-006

Collection Date: 6/22/2023 4:15:00 PM

Client Sample ID: MW19-20230622

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R85066	Analyst: AM
Methane	2.37	0.135	D	mg/L	20	7/3/2023 11:09:00 AM
Ethene	ND	0.0146		mg/L	1	6/30/2023 3:36:00 PM
Ethane	ND	0.0151		mg/L	1	6/30/2023 3:36:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 40772	Analyst: AT
Nitrate (as N)	ND	0.500	DH	mg/L	5	6/27/2023 4:58:00 AM
Sulfate	ND	3.00	D	mg/L	5	6/27/2023 4:58:00 AM
NOTES: Diluted due to matrix.						
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R85008	Analyst: ME
Alkalinity, Total (As CaCO3)	396	2.50		mg/L	1	6/29/2023 10:21:47 AM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R84921	Analyst: NR
Ferrous Iron	20.7	3.75	DH	mg/L	25	6/26/2023 3:30:00 PM



Analytical Report

Work Order: 2306436
Date Reported: 7/3/2023

CLIENT: Friedman & Bruya
Project: 306390

Lab ID: 2306436-007 **Collection Date:** 6/23/2023 8:58:00 AM
Client Sample ID: MW25-20230623 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175 Batch ID: R85066 Analyst: AM

Methane	3.46	0.135	D	mg/L	20	7/3/2023 11:11:00 AM
Ethene	ND	0.0146		mg/L	1	6/30/2023 3:40:00 PM
Ethane	ND	0.0151		mg/L	1	6/30/2023 3:40:00 PM

Ion Chromatography by EPA Method 300.0 Batch ID: 40779 Analyst: AT

Nitrate (as N)	ND	0.100		mg/L	1	6/29/2023 2:28:00 AM
Sulfate	31.1	3.00	D	mg/L	5	6/27/2023 5:21:00 AM

Total Organic Carbon by SM 5310C Batch ID: R85022 Analyst: AT

Total Organic Carbon	1.56	0.700		mg/L	1	6/29/2023 4:04:00 AM
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Total Alkalinity by SM 2320B Batch ID: R85047 Analyst: ME

Alkalinity, Total (As CaCO3)	218	2.50		mg/L	1	6/30/2023 4:11:47 PM
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Ferrous Iron by SM3500-Fe B Batch ID: R84921 Analyst: NR

Ferrous Iron	4.43	3.75	DH	mg/L	25	6/26/2023 3:30:00 PM
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Lab ID: 2306436-008 **Collection Date:** 6/22/2023 9:25:00 AM
Client Sample ID: MW21-20230623 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175 Batch ID: R85066 Analyst: AM

Methane	1.87	0.0675	D	mg/L	10	7/3/2023 11:13:00 AM
Ethene	ND	0.0146		mg/L	1	6/30/2023 3:44:00 PM
Ethane	ND	0.0151		mg/L	1	6/30/2023 3:44:00 PM

Total Organic Carbon by SM 5310C Batch ID: R85022 Analyst: AT

Total Organic Carbon	25.5	0.700		mg/L	1	6/29/2023 4:25:00 AM
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CLIENT: Friedman & Bruya
Project: 306390

Lab ID: 2306436-009

Collection Date: 6/23/2023 11:11:00 AM

Client Sample ID: IW50-20230623

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R85066	Analyst: AM
Methane	5.01	0.169	D	mg/L	25	7/3/2023 11:26:00 AM
Ethene	ND	0.0146		mg/L	1	6/30/2023 3:48:00 PM
Ethane	ND	0.0151		mg/L	1	6/30/2023 3:48:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 40772	Analyst: AT
Nitrate (as N)	ND	0.500	DH	mg/L	5	6/27/2023 5:45:00 AM
Sulfate	8.06	3.00	D	mg/L	5	6/27/2023 5:45:00 AM
NOTES: Diluted due to matrix.						
<u>Total Organic Carbon by SM 5310C</u>					Batch ID: R85022	Analyst: AT
Total Organic Carbon	6.25	0.700		mg/L	1	6/29/2023 4:48:00 AM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R85047	Analyst: ME
Alkalinity, Total (As CaCO ₃)	410	2.50		mg/L	1	6/30/2023 4:11:47 PM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R84921	Analyst: NR
Ferrous Iron	13.2	3.75	DH	mg/L	25	6/26/2023 3:30:00 PM



Analytical Report

Work Order: 2306436
Date Reported: 7/3/2023

CLIENT: Friedman & Bruya
Project: 306390

Lab ID: 2306436-010

Collection Date: 6/23/2023 11:15:00 AM

Client Sample ID: MW22-20230623

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R85066	Analyst: AM
Methane	1.35	0.0338	D	mg/L	5	7/3/2023 11:19:00 AM
Ethene	ND	0.0146		mg/L	1	6/30/2023 3:56:00 PM
Ethane	ND	0.0151		mg/L	1	6/30/2023 3:56:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 40772	Analyst: AT
Nitrate (as N)	ND	0.500	DH	mg/L	5	6/27/2023 6:08:00 AM
Sulfate	ND	3.00	D	mg/L	5	6/27/2023 6:08:00 AM
NOTES: Diluted due to matrix.						
<u>Total Organic Carbon by SM 5310C</u>					Batch ID: R85022	Analyst: AT
Total Organic Carbon	82.7	0.700		mg/L	1	6/29/2023 5:11:00 AM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R85047	Analyst: ME
Alkalinity, Total (As CaCO3)	317	2.50		mg/L	1	6/30/2023 4:11:47 PM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R84921	Analyst: NR
Ferrous Iron	13.9	3.75	DH	mg/L	25	6/26/2023 3:30:00 PM

CLIENT: Friedman & Bruya
Project: 306390

Lab ID: 2306436-011

Collection Date: 6/23/2023 12:30:00 PM

Client Sample ID: MW24-20230623

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R85066	Analyst: AM
Methane	4.02	0.135	D	mg/L	20	7/3/2023 11:21:00 AM
Ethene	ND	0.0146		mg/L	1	6/30/2023 4:00:00 PM
Ethane	ND	0.0151		mg/L	1	6/30/2023 4:00:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 40772	Analyst: AT
Nitrate (as N)	ND	0.500	DH	mg/L	5	6/27/2023 6:31:00 AM
Sulfate	ND	3.00	D	mg/L	5	6/27/2023 6:31:00 AM
NOTES: Diluted due to matrix.						
<u>Total Organic Carbon by SM 5310C</u>					Batch ID: R85022	Analyst: AT
Total Organic Carbon	4.60	0.700		mg/L	1	6/29/2023 5:35:00 AM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R85047	Analyst: ME
Alkalinity, Total (As CaCO ₃)	431	2.50		mg/L	1	6/30/2023 4:11:47 PM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R84921	Analyst: NR
Ferrous Iron	12.3	3.75	DH	mg/L	25	6/26/2023 3:30:00 PM



Analytical Report

Work Order: 2306436
Date Reported: 7/3/2023

CLIENT: Friedman & Bruya
Project: 306390

Lab ID: 2306436-012

Collection Date: 6/23/2023 12:32:00 PM

Client Sample ID: IW61-20230623

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R85066	Analyst: AM
Methane	2.36	0.0675	D	mg/L	10	7/3/2023 11:24:00 AM
Ethene	ND	0.0146		mg/L	1	6/30/2023 4:04:00 PM
Ethane	ND	0.0151		mg/L	1	6/30/2023 4:04:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 40772	Analyst: AT
Nitrate (as N)	ND	0.500	DH	mg/L	5	6/27/2023 6:54:00 AM
Sulfate	ND	3.00	D	mg/L	5	6/27/2023 6:54:00 AM
NOTES: Diluted due to matrix.						
<u>Total Organic Carbon by SM 5310C</u>					Batch ID: R85022	Analyst: AT
Total Organic Carbon	80.4	0.700		mg/L	1	6/29/2023 6:53:00 AM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R85047	Analyst: ME
Alkalinity, Total (As CaCO ₃)	487	2.50		mg/L	1	6/30/2023 4:11:47 PM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R84921	Analyst: NR
Ferrous Iron	21.4	3.75	DH	mg/L	25	6/26/2023 3:30:00 PM

Work Order: 2306436
CLIENT: Friedman & Bruya
Project: 306390

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

Sample ID: MB-R84944	SampType: MBLK	Units: mg/L	Prep Date: 6/28/2023	RunNo: 84944							
Client ID: MBLKW	Batch ID: R84944	Analysis Date: 6/28/2023	SeqNo: 1773561								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3) ND 2.50

Sample ID: LCS-R84944	SampType: LCS	Units: mg/L	Prep Date: 6/28/2023	RunNo: 84944							
Client ID: LCSW	Batch ID: R84944	Analysis Date: 6/28/2023	SeqNo: 1773562								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3) 111 2.50 100.0 0 111 83.8 121

Sample ID: 2306416-004CDUP	SampType: DUP	Units: mg/L	Prep Date: 6/28/2023	RunNo: 84944							
Client ID: BATCH	Batch ID: R84944	Analysis Date: 6/28/2023	SeqNo: 1773564								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3) 990 2.50 980.1 0.996 20

Sample ID: MB-R85008	SampType: MBLK	Units: mg/L	Prep Date: 6/29/2023	RunNo: 85008							
Client ID: MBLKW	Batch ID: R85008	Analysis Date: 6/29/2023	SeqNo: 1774379								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3) ND 2.50

Sample ID: LCS-R85008	SampType: LCS	Units: mg/L	Prep Date: 6/29/2023	RunNo: 85008							
Client ID: LCSW	Batch ID: R85008	Analysis Date: 6/29/2023	SeqNo: 1774380								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3) 113 2.50 100.0 0 113 83.8 121

Work Order: 2306436
CLIENT: Friedman & Bruya
Project: 306390

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

Sample ID: 2306436-004ADUP	SampType: DUP	Units: mg/L			Prep Date: 6/29/2023	RunNo: 85008
Client ID: IW04-20230622	Batch ID: R85008				Analysis Date: 6/29/2023	SeqNo: 1774382
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	281	2.50				285.2 1.44 20

Sample ID: MB-R85047	SampType: MBLK	Units: mg/L			Prep Date: 6/30/2023	RunNo: 85047
Client ID: MBLKW	Batch ID: R85047				Analysis Date: 6/30/2023	SeqNo: 1775330
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	ND	2.50				

Sample ID: LCS-R85047	SampType: LCS	Units: mg/L			Prep Date: 6/30/2023	RunNo: 85047
Client ID: LCSW	Batch ID: R85047				Analysis Date: 6/30/2023	SeqNo: 1775331
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	115	2.50	100.0	0	115	83.8 121

Sample ID: 2306436-007BDUP	SampType: DUP	Units: mg/L			Prep Date: 6/30/2023	RunNo: 85047
Client ID: MW25-20230623	Batch ID: R85047				Analysis Date: 6/30/2023	SeqNo: 1775333
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	218	2.50				218.3 0.0988 20

Work Order: 2306436
CLIENT: Friedman & Bruya
Project: 306390

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: 2306436-002CDUP	SampType: DUP	Units: mg/L			Prep Date: 6/26/2023	RunNo: 84921					
Client ID: MW26-20230622	Batch ID: R84921				Analysis Date: 6/26/2023	SeqNo: 1772740					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.408	0.150						0.4765	15.4	20	H

Sample ID: 2306436-002CMS	SampType: MS	Units: mg/L			Prep Date: 6/26/2023	RunNo: 84921					
Client ID: MW26-20230622	Batch ID: R84921				Analysis Date: 6/26/2023	SeqNo: 1772741					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.844	0.150	0.4000	0.4765	91.8	70	130				H

Work Order: 2306436
CLIENT: Friedman & Bruya
Project: 306390

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: LCS-40772		SampType: LCS		Units: mg/L		Prep Date: 6/26/2023		RunNo: 84988			
Client ID: LCSW		Batch ID: 40772				Analysis Date: 6/26/2023		SeqNo: 1773864			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.704	0.100	0.7500	0	93.9	90	110				
Sulfate	3.42	0.600	3.750	0	91.2	90	110				

Sample ID: MB-40772		SampType: MBLK		Units: mg/L		Prep Date: 6/26/2023		RunNo: 84988			
Client ID: MBLKW		Batch ID: 40772				Analysis Date: 6/26/2023		SeqNo: 1773866			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: 2306382-001ADUP		SampType: DUP		Units: mg/L		Prep Date: 6/26/2023		RunNo: 84988			
Client ID: BATCH		Batch ID: 40772				Analysis Date: 6/26/2023		SeqNo: 1773876			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.158	0.100						0.1570	0.635	20	
Sulfate	1.05	0.600						1.058	1.14	20	

Sample ID: 2306382-001AMS		SampType: MS		Units: mg/L		Prep Date: 6/26/2023		RunNo: 84988			
Client ID: BATCH		Batch ID: 40772				Analysis Date: 6/27/2023		SeqNo: 1773877			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.819	0.100	0.7500	0.1570	88.3	80	120				
Sulfate	4.25	0.600	3.750	1.058	85.2	80	120				

Sample ID: 2306382-001AMSD		SampType: MSD		Units: mg/L		Prep Date: 6/26/2023		RunNo: 84988			
Client ID: BATCH		Batch ID: 40772				Analysis Date: 6/27/2023		SeqNo: 1773878			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.814	0.100	0.7500	0.1570	87.6	80	120	0.8190	0.612	20	
Sulfate	4.22	0.600	3.750	1.058	84.2	80	120	4.254	0.874	20	

Work Order: 2306436
CLIENT: Friedman & Bruya
Project: 306390

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: 2306382-001AMSD	SampType: MSD	Units: mg/L	Prep Date: 6/26/2023	RunNo: 84988							
Client ID: BATCH	Batch ID: 40772	Analysis Date: 6/27/2023	SeqNo: 1773878								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2306435-001BDUP	SampType: DUP	Units: mg/L	Prep Date: 6/26/2023	RunNo: 84988							
Client ID: BATCH	Batch ID: 40772	Analysis Date: 6/27/2023	SeqNo: 1773880								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.500						0		20	D
Sulfate	5.20	3.00						5.215	0.288	20	D

Sample ID: 2306435-001BMS	SampType: MS	Units: mg/L	Prep Date: 6/26/2023	RunNo: 84988							
Client ID: BATCH	Batch ID: 40772	Analysis Date: 6/27/2023	SeqNo: 1773881								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	3.65	0.500	3.750	0.4350	85.7	80	120				D
Sulfate	21.6	3.00	18.75	5.215	87.5	80	120				D

Sample ID: LCS-40779	SampType: LCS	Units: mg/L	Prep Date: 6/28/2023	RunNo: 85037							
Client ID: LCSW	Batch ID: 40779	Analysis Date: 6/28/2023	SeqNo: 1775084								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.708	0.100	0.7500	0	94.4	90	110				

Sample ID: MB-40779	SampType: MBLK	Units: mg/L	Prep Date: 6/28/2023	RunNo: 85037							
Client ID: MBLKW	Batch ID: 40779	Analysis Date: 6/28/2023	SeqNo: 1775086								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100									

Work Order: 2306436
CLIENT: Friedman & Bruya
Project: 306390

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2306467-001BDUP	SampType: DUP	Units: mg/L	Prep Date: 6/28/2023	RunNo: 85037							
Client ID: BATCH	Batch ID: 40779		Analysis Date: 6/28/2023	SeqNo: 1775088							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.543	0.100						0.5400	0.554	20	

Sample ID: 2306467-001BMS	SampType: MS	Units: mg/L	Prep Date: 6/28/2023	RunNo: 85037							
Client ID: BATCH	Batch ID: 40779		Analysis Date: 6/29/2023	SeqNo: 1775089							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	1.32	0.100	0.7500	0.5400	103	80	120				

Sample ID: 2306467-001BMSD	SampType: MSD	Units: mg/L	Prep Date: 6/28/2023	RunNo: 85037							
Client ID: BATCH	Batch ID: 40779		Analysis Date: 6/29/2023	SeqNo: 1775090							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	1.30	0.100	0.7500	0.5400	101	80	120	1.316	1.15	20	

Work Order: 2306436
CLIENT: Friedman & Bruya
Project: 306390

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: MB-85022	SampType: MBLK	Units: mg/L			Prep Date: 6/28/2023	RunNo: 85022					
Client ID: MBLKW	Batch ID: R85022				Analysis Date: 6/28/2023	SeqNo: 1774726					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.700									
Sample ID: LCS-85022	SampType: LCS	Units: mg/L			Prep Date: 6/28/2023	RunNo: 85022					
Client ID: LCSW	Batch ID: R85022				Analysis Date: 6/28/2023	SeqNo: 1774727					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.35	0.700	5.000	0	107	88.1	112				
Sample ID: 2306436-004CDUP	SampType: DUP	Units: mg/L			Prep Date: 6/29/2023	RunNo: 85022					
Client ID: IW04-20230622	Batch ID: R85022				Analysis Date: 6/29/2023	SeqNo: 1774740					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	24.0	0.700						24.27	1.25	20	
Sample ID: 2306436-004CMS	SampType: MS	Units: mg/L			Prep Date: 6/29/2023	RunNo: 85022					
Client ID: IW04-20230622	Batch ID: R85022				Analysis Date: 6/29/2023	SeqNo: 1774741					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	28.2	0.700	5.000	24.27	78.1	75.2	115				
Sample ID: 2306436-004CMSD	SampType: MSD	Units: mg/L			Prep Date: 6/29/2023	RunNo: 85022					
Client ID: IW04-20230622	Batch ID: R85022				Analysis Date: 6/29/2023	SeqNo: 1774742					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	28.0	0.700	5.000	24.27	75.4	75.2	115	28.18	0.491	30	

Work Order: 2306436
CLIENT: Friedman & Bruya
Project: 306390

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: 2306467-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 6/29/2023	RunNo: 85022							
Client ID: BATCH	Batch ID: R85022	Analysis Date: 6/29/2023	SeqNo: 1774753								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	3.12	0.700						3.906	22.5	20	R

NOTES:

R - High RPD due to low analyte concentration. In this range, high RPD's may be expected.

Sample ID: 2306467-001AMS	SampType: MS	Units: mg/L	Prep Date: 6/29/2023	RunNo: 85022							
Client ID: BATCH	Batch ID: R85022	Analysis Date: 6/29/2023	SeqNo: 1774754								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	7.93	0.700	5.000	3.906	80.5	75.2	115				

Work Order: 2306436
CLIENT: Friedman & Bruya
Project: 306390

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: LCS-R85065		SampType: LCS		Units: ppmv		Prep Date: 6/30/2023		RunNo: 85065			
Client ID: LCSW		Batch ID: R85065				Analysis Date: 6/30/2023		SeqNo: 1775739			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1,030	0.00675	1,000	0	103	73.6	124				
Ethene	1,040	0.0146	1,000	0	104	76.3	122				
Ethane	1,030	0.0151	1,000	0	103	76.1	123				

Sample ID: MB-R85065		SampType: MBLK		Units: mg/L		Prep Date: 6/30/2023		RunNo: 85065			
Client ID: MBLKW		Batch ID: R85065				Analysis Date: 6/30/2023		SeqNo: 1775703			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675									
Ethene	ND	0.0146									
Ethane	ND	0.0151									

Sample ID: 2306436-001AREP		SampType: REP		Units: mg/L		Prep Date: 6/30/2023		RunNo: 85065			
Client ID: MW04-20230622		Batch ID: R85065				Analysis Date: 6/30/2023		SeqNo: 1775689			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675						0		30	
Ethene	ND	0.0146						0		30	
Ethane	ND	0.0151						0		30	

Sample ID: LCS-R85066		SampType: LCS		Units: ppmv		Prep Date: 7/3/2023		RunNo: 85066			
Client ID: LCSW		Batch ID: R85066				Analysis Date: 7/3/2023		SeqNo: 1775738			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1,000	0.00675	1,000	0	100	73.6	124				

Work Order: 2306436
 CLIENT: Friedman & Bruya
 Project: 306390

QC SUMMARY REPORT
Dissolved Gases by RSK-175

Sample ID: MB-R85066	SampType: MBLK	Units: mg/L	Prep Date: 7/3/2023	RunNo: 85066							
Client ID: MBLKW	Batch ID: R85066	Analysis Date: 7/3/2023	SeqNo: 1775723								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane ND 0.00675

Sample ID: 2306436-012A	SampType: REP	Units: mg/L	Prep Date: 7/3/2023	RunNo: 85066							
Client ID: IW61-20230623	Batch ID: R85066	Analysis Date: 7/3/2023	SeqNo: 1775720								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 2.50 0.0675 2.360 5.59 30 D

Client Name: FB	Work Order Number: 2306436
Logged by: Morgan Wilson	Date Received: 6/26/2023 11:36:00 AM

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 holding times 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:	<input type="text" value="Michael Erdahl"/>	Date:	<input type="text" value="6/26/2023"/>
By Whom:	<input type="text" value="Morgan Wilson"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Samples out of hold"/>		
Client Instructions:	<input type="text" value="Okay to proceed"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	0.8

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2306436




Page # 1 of 1

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 3012 16th Ave W
 City, State, ZIP Seattle, WA 98119
 Phone # (206) 285-8282 merdahl@friedmanandbruya.com

SUBCONTRACTER Fremont		PO #
PROJECT NAME/NO. 306390	D-357	
REMARKS EIM		

TURNAROUND TIME <input checked="" type="checkbox"/> Standard TAT RUSH	SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions
Rush charges authorized by:	

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED						Notes
						RSK Methane, Ethane, Ethene	Sulfate	Nitrate	Alkalinity	ferrous iron	TOC	
MW04-20230622		6/22/2023	840	water	6	X	X	X	X	X	X	
MW26-20230622		6/22/2023	915	water	6	X	X	X	X	X	X	
MW07-20230622		6/22/2023	1010	water	6	X	X	X	X	X	X	
IW04-20230622		6/22/2023	1438	water	3		X	X	X	X	X	
MW18-20230622		6/22/2023	1605	water	6	X	X	X	X	X	X	
MW19-20230622		6/22/2023	1615	water	5	X	X	X	X	X		
MW25-20230623		6/23/2023	858	water	6	X	X	X	X	X		
MW21-20230623		6/23/2023	925	water	4	X					X	
IW50-20230623		6/23/2023	1111	water	6	X	X	X	X	X	X	
MW22-20230623		6/23/2023	1115	water	6	X	X	X	X	X	X	
MW24-20230623		6/23/2023	1230	water	6	X	X	X	X	X	X	
IW61-20230623		6/23/2023	1232	water	6	X	X	X	X	X	X	

Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044		SIGNATURE 		PRINT NAME Michael Erdahl		COMPANY Friedman & Bruya		DATE 6/26/23		TIME 0815	
Received by: 		Relinquished by: 		Michael Miller		FBI		6/26/23		1536	
Received by:											

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
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Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 5, 2023

Levi Fernandes, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Fernandes:

Included are the results from the testing of material submitted on June 23, 2023 from the SOU_0731-004-08_20230623, F&BI 306391 project. There are 17 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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: Linnea Coleman, Tom Cammarata
SOU0705R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 23, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_ 20230623, F&BI 306391 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
306391 -01	MW31-20230621
306391 -02	MW01-20230621
306391 -03	MW28-20230621
306391 -04	MW34-20230621
306391 -05	MW27-20230621
306391 -06	MW32-20230621

Sample MW28-20230621 was sent to Fremont Analytical for ferrous iron, nitrate, sulfate, alkalinity and dissolved gases analyses. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_ 0731-004-08_ 20230623, F&BI 306391

Date Extracted: 06/27/23

Date Analyzed: 06/27/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW28-20230621 306391-03	<100	135
Method Blank 03-1404 MB	<100	131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_ 0731-004-08_ 20230623, F&BI 306391

Date Extracted: 06/27/23

Date Analyzed: 06/27/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
MW28-20230621 306391-03	67 x	<250	120
Method Blank 03-1510 MB2	<50	<250	115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW28-20230621	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	306391-03 x10
Date Analyzed:	06/26/23	Data File:	306391-03 x10.140
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	2,600
Manganese	321

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/26/23	Lab ID:	I3-509 mb
Date Analyzed:	06/26/23	Data File:	I3-509 mb.114
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW31-20230621	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/30/23	Lab ID:	306391-01
Date Analyzed:	06/30/23	Data File:	063015.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	98	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	4.1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW01-20230621	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/30/23	Lab ID:	306391-02
Date Analyzed:	06/30/23	Data File:	063012.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	71	132
Toluene-d8	99	68	139
4-Bromofluorobenzene	100	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW28-20230621	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/30/23	Lab ID:	306391-03
Date Analyzed:	06/30/23	Data File:	063014.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	89	71	132
Toluene-d8	93	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	5.6
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW34-20230621	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/30/23	Lab ID:	306391-04
Date Analyzed:	06/30/23	Data File:	063016.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	4.8
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW27-20230621	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/30/23	Lab ID:	306391-05
Date Analyzed:	06/30/23	Data File:	063017.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	100	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	5.3
Trichloroethene	15
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW32-20230621	Client:	SoundEarth Strategies
Date Received:	06/23/23	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/30/23	Lab ID:	306391-06
Date Analyzed:	06/30/23	Data File:	063013.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	71	132
Toluene-d8	99	68	139
4-Bromofluorobenzene	102	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20230623
Date Extracted:	06/30/23	Lab ID:	03-1523 mb
Date Analyzed:	06/30/23	Data File:	063007.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_ 0731-004-08_ 20230623, F&BI 306391

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 306391-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	99	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_ 0731-004-08_ 20230623, F&BI 306391

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	96	84	65-151	13

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_ 0731-004-08_ 20230623, F&BI 306391

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 306390-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	123	106 b	104 b	70-130	2 b
Manganese	ug/L (ppb)	20	<1	98	98	70-130	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	100	85-115
Manganese	ug/L (ppb)	20	94	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/23

Date Received: 06/23/23

Project: SOU_ 0731-004-08_ 20230623, F&BI 306391

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 306391-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	103	16-176
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	101	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	99	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	102	43-133
Tetrachloroethene	ug/L (ppb)	10	<1	105	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent		Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCS D		
Vinyl chloride	ug/L (ppb)	10	100	101	43-149	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	96	100	70-130	4
cis-1,2-Dichloroethene	ug/L (ppb)	10	98	100	70-130	2
Trichloroethene	ug/L (ppb)	10	98	104	70-130	6
Tetrachloroethene	ug/L (ppb)	10	99	106	70-130	7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported 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.

3063901
 AWB

SAMPLE CHAIN OF CUSTODY

Send Report to: Levi Fernandes, Linnea Coleman, Tom Cammarata

Company: SoundEarth Strategies, Inc.

Address: 1011 SW Klickitat Way, Suite 212

City, State, ZIP Seattle, Washington 98134

Phone # 206-306-1900 Fax # _____

SAMPLES (signature)
Deanna Booth

PROJECT NAME/NO.
Troy Laundry Property

PO #
0731-004-08

REMARKS
 *cVOCs = PCE, TCE, Cis/Trans-DCE, and VC

EIM Y

08/23/23

12/12

Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

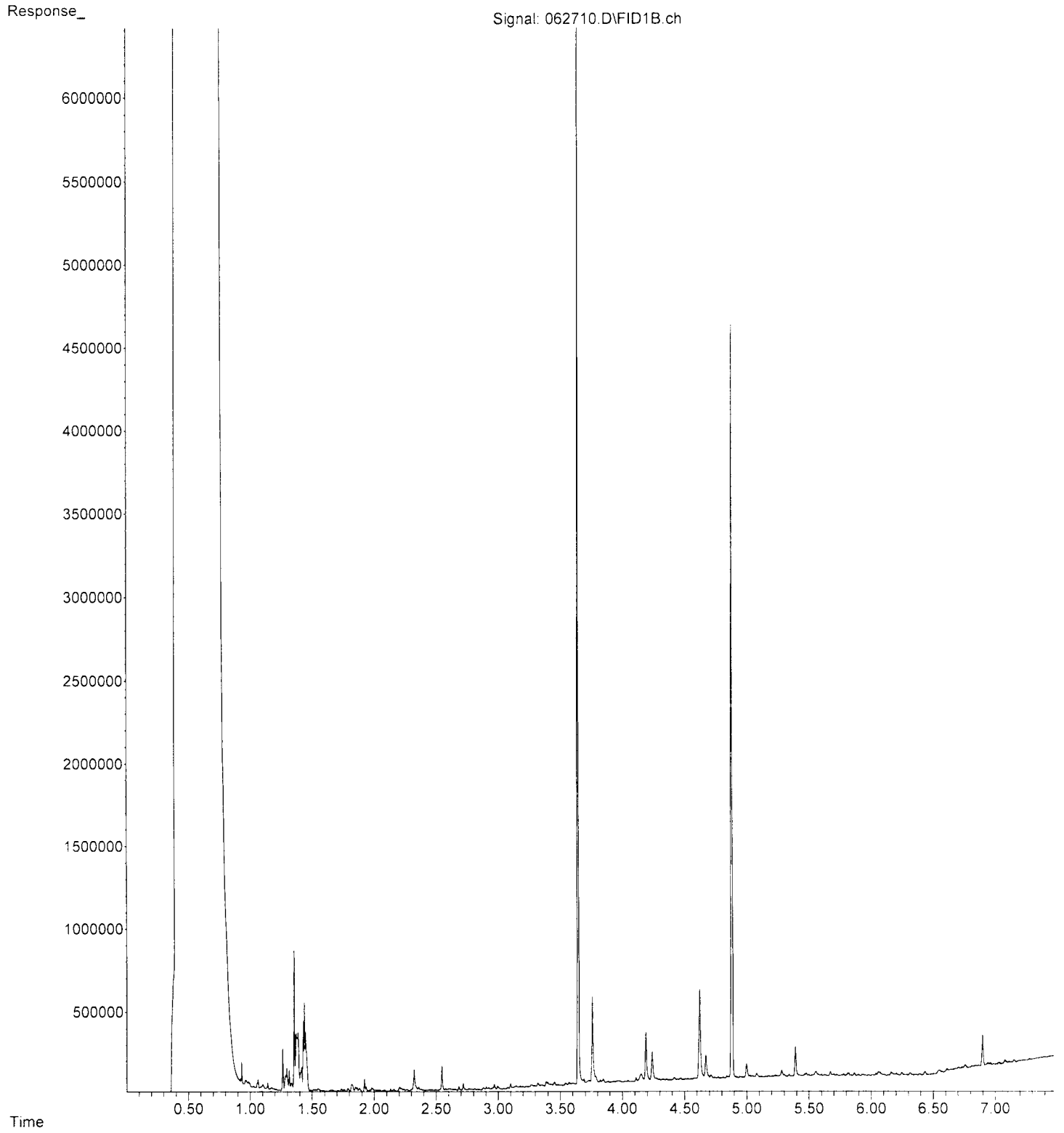
Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx	DRPH/ORPH by NWTPH-Dx	cVOCs* by EPA 8260D	Methane, Ethane, Ethene by RSK-175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes
MU031-20230621	MU031	—	01A-C0621	1030	1145	GW	3			X						
MU01-20230621	MU01	—	02 V	1145	1210		3			X						
MU28-20230621	MU28	—	03 AK	1210	1425		1	X	X	X	X	X	X	X		
MU34-20230621	MU34	—	04 AC	1425	1455		3			X						
MU25-20230621	MU25	—	05 V	1455	1650		3			X						
MU32-20230621	MU32	—	06 V	1650			3			X						
BDB 08/21/23 samples received at 4°C																

Friedman & Bruvo, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<i>[Signature]</i>	Linnea Coleman	SES	08/23/23	1718
<i>[Signature]</i>	Linnea Coleman	SES	08/23/23	1718
<i>[Signature]</i>	Linnea Coleman	SES	08/23/23	1718
<i>[Signature]</i>	Linnea Coleman	SES	08/23/23	1718

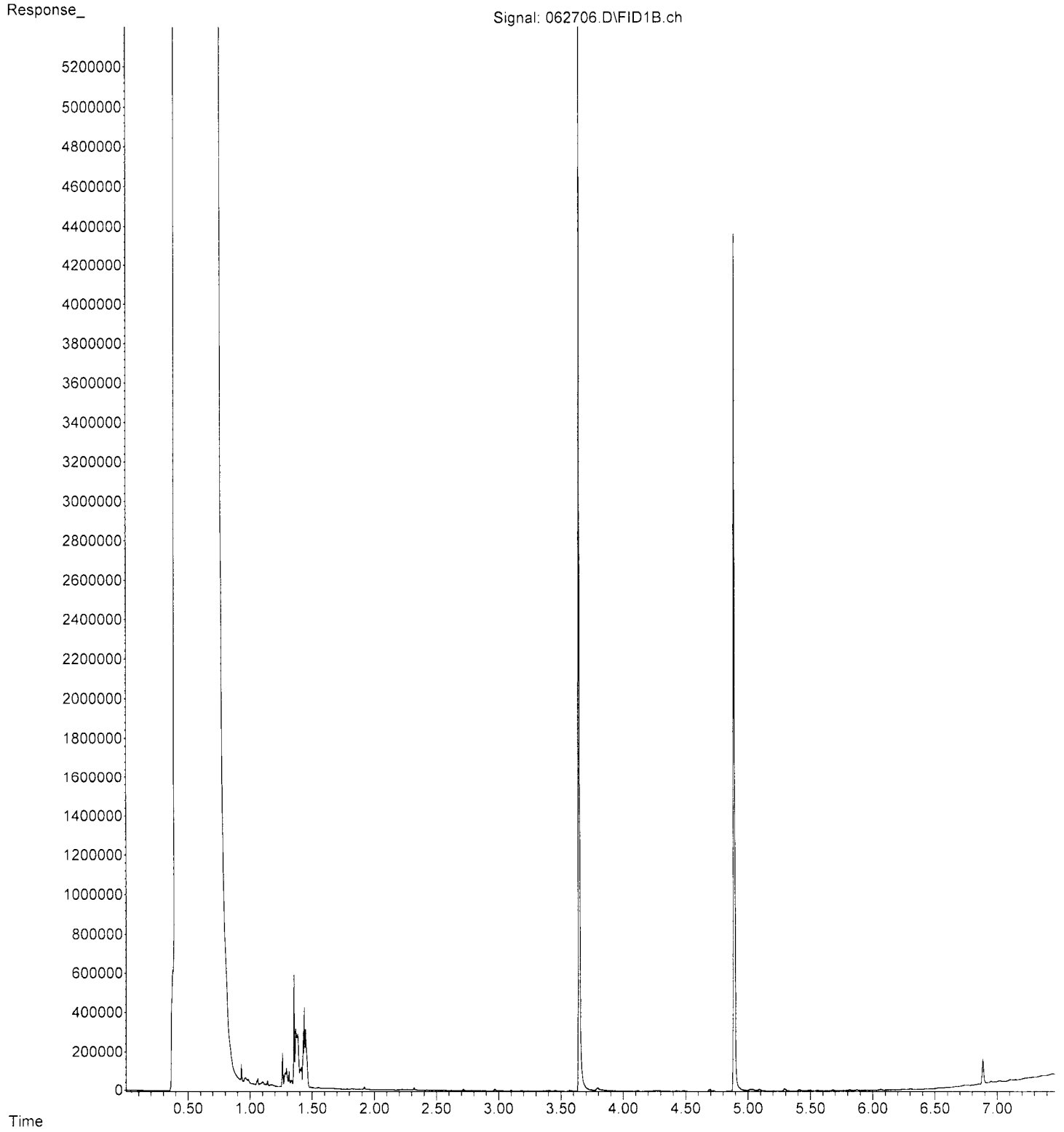
File :P:\Proc_GC14\06-27-23\062710.D
Operator : TL
Acquired : 27 Jun 2023 09:59 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 306391-03
Misc Info :
Vial Number: 10

ERR



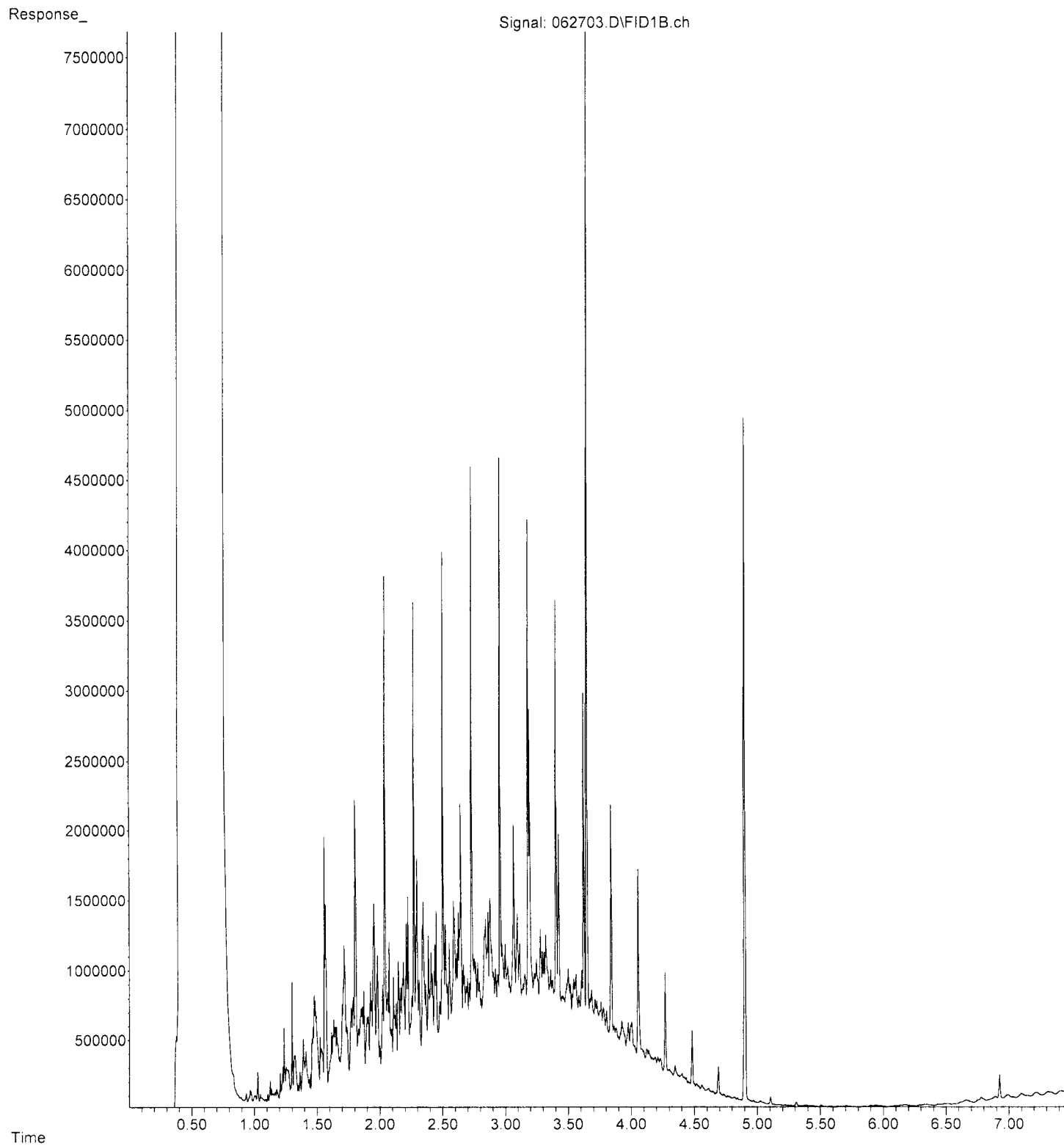
File :P:\Proc_GC14\06-27-23\062706.D
Operator : TL
Acquired : 27 Jun 2023 09:11 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 03-1510 mb2
Misc Info :
Vial Number: 6

ERR



File :P:\Proc_GC14\06-27-23\062703.D
Operator : TL
Acquired : 27 Jun 2023 08:32 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 68-66J
Misc Info :
Vial Number: 3

ERR





3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 306391
Work Order Number: 2306435

June 30, 2023

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 6/26/2023 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B

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

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 306391
Work Order: 2306435

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2306435-001	MW28-20230621	06/21/2023 12:10 PM	06/26/2023 11:36 AM

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

CLIENT: Friedman & Bruya

Project: 306391

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: 2306435
Date Reported: 6/30/2023

CLIENT: Friedman & Bruya
Project: 306391

Lab ID: 2306435-001

Collection Date: 6/21/2023 12:10:00 PM

Client Sample ID: MW28-20230621

Matrix: Water

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R84987		Analyst: NR
Methane	0.00782	0.00675		mg/L	1	6/27/2023 5:03:00 PM
Ethene	ND	0.0146		mg/L	1	6/27/2023 5:03:00 PM
Ethane	ND	0.0151		mg/L	1	6/27/2023 5:03:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 40779		Analyst: AT
Nitrate (as N)	0.136	0.100	H	mg/L	1	6/29/2023 12:55:00 AM
Sulfate	3.31	0.600		mg/L	1	6/29/2023 12:55:00 AM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R84944		Analyst: ME
Alkalinity, Total (As CaCO3)	160	2.50		mg/L	1	6/28/2023 9:07:00 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R84921		Analyst: NR
Ferrous Iron	0.305	0.150	H	mg/L	1	6/26/2023 3:30:00 PM

Work Order: 2306435
CLIENT: Friedman & Bruya
Project: 306391

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

Sample ID: MB-R84944	SampType: MBLK	Units: mg/L	Prep Date: 6/28/2023	RunNo: 84944							
Client ID: MBLKW	Batch ID: R84944	Analysis Date: 6/28/2023	SeqNo: 1773561								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2.50									

Sample ID: LCS-R84944	SampType: LCS	Units: mg/L	Prep Date: 6/28/2023	RunNo: 84944							
Client ID: LCSW	Batch ID: R84944	Analysis Date: 6/28/2023	SeqNo: 1773562								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	111	2.50	100.0	0	111	83.8	121				

Sample ID: 2306416-004CDUP	SampType: DUP	Units: mg/L	Prep Date: 6/28/2023	RunNo: 84944							
Client ID: BATCH	Batch ID: R84944	Analysis Date: 6/28/2023	SeqNo: 1773564								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	990	2.50						980.1	0.996	20	

Work Order: 2306435
CLIENT: Friedman & Bruya
Project: 306391

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: MB-R84921	SampType: MBLK	Units: mg/L	Prep Date: 6/26/2023	RunNo: 84921							
Client ID: MBLKW	Batch ID: R84921	Analysis Date: 6/26/2023	SeqNo: 1772383								
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-R84921	SampType: LCS	Units: mg/L	Prep Date: 6/26/2023	RunNo: 84921							
Client ID: LCSW	Batch ID: R84921	Analysis Date: 6/26/2023	SeqNo: 1772384								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.403	0.150	0.4000	0	101	85	115				

Sample ID: 2306435-001CDUP	SampType: DUP	Units: mg/L	Prep Date: 6/26/2023	RunNo: 84921							
Client ID: MW28-20230621	Batch ID: R84921	Analysis Date: 6/26/2023	SeqNo: 1772496								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.321	0.150						0.3052	5.21	20	H

Sample ID: 2306435-001CMS	SampType: MS	Units: mg/L	Prep Date: 6/26/2023	RunNo: 84921							
Client ID: MW28-20230621	Batch ID: R84921	Analysis Date: 6/26/2023	SeqNo: 1772497								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.729	0.150	0.4000	0.3052	106	70	130				H

Sample ID: 2306435-001CMSD	SampType: MSD	Units: mg/L	Prep Date: 6/26/2023	RunNo: 84921							
Client ID: MW28-20230621	Batch ID: R84921	Analysis Date: 6/26/2023	SeqNo: 1772498								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.737	0.150	0.4000	0.3052	108	70	130	0.7293	1.11	30	H

Work Order: 2306435
CLIENT: Friedman & Bruya
Project: 306391

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: 2306436-002CDUP	SampType: DUP	Units: mg/L			Prep Date: 6/26/2023	RunNo: 84921					
Client ID: BATCH	Batch ID: R84921				Analysis Date: 6/26/2023	SeqNo: 1772740					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.408	0.150						0.4765	15.4	20	H

Sample ID: 2306436-002CMS	SampType: MS	Units: mg/L			Prep Date: 6/26/2023	RunNo: 84921					
Client ID: BATCH	Batch ID: R84921				Analysis Date: 6/26/2023	SeqNo: 1772741					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.844	0.150	0.4000	0.4765	91.8	70	130				H

Work Order: 2306435
CLIENT: Friedman & Bruya
Project: 306391

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: LCS-40779	SampType: LCS	Units: mg/L				Prep Date: 6/28/2023	RunNo: 85037				
Client ID: LCSW	Batch ID: 40779					Analysis Date: 6/28/2023	SeqNo: 1775084				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.708	0.100	0.7500	0	94.4	90	110				
Sulfate	3.48	0.600	3.750	0	92.9	90	110				

Sample ID: MB-40779	SampType: MBLK	Units: mg/L				Prep Date: 6/28/2023	RunNo: 85037				
Client ID: MBLKW	Batch ID: 40779					Analysis Date: 6/28/2023	SeqNo: 1775086				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: 2306467-001BDUP	SampType: DUP	Units: mg/L				Prep Date: 6/28/2023	RunNo: 85037				
Client ID: BATCH	Batch ID: 40779					Analysis Date: 6/28/2023	SeqNo: 1775088				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.543	0.100						0.5400	0.554	20	
Sulfate	0.919	0.600						0.9200	0.109	20	

Sample ID: 2306467-001BMS	SampType: MS	Units: mg/L				Prep Date: 6/28/2023	RunNo: 85037				
Client ID: BATCH	Batch ID: 40779					Analysis Date: 6/29/2023	SeqNo: 1775089				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	1.32	0.100	0.7500	0.5400	103	80	120				
Sulfate	4.37	0.600	3.750	0.9200	92.1	80	120				

Sample ID: 2306467-001BMSD	SampType: MSD	Units: mg/L				Prep Date: 6/28/2023	RunNo: 85037				
Client ID: BATCH	Batch ID: 40779					Analysis Date: 6/29/2023	SeqNo: 1775090				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	1.30	0.100	0.7500	0.5400	101	80	120	1.316	1.15	20	
Sulfate	4.37	0.600	3.750	0.9200	92.1	80	120	4.374	0	20	

Work Order: 2306435
CLIENT: Friedman & Bruya
Project: 306391

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2306467-001BMSD	SampType: MSD	Units: mg/L	Prep Date: 6/28/2023	RunNo: 85037							
Client ID: BATCH	Batch ID: 40779	Analysis Date: 6/29/2023	SeqNo: 1775090								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Work Order: 2306435
CLIENT: Friedman & Bruya
Project: 306391

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: LCS-R84987		SampType: LCS		Units: ppmv		Prep Date: 6/27/2023		RunNo: 84987			
Client ID: LCSW		Batch ID: R84987				Analysis Date: 6/27/2023		SeqNo: 1773840			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	969	0.00675	1,000	0	96.9	73.6	124				
Ethene	974	0.0146	1,000	0	97.4	76.3	122				
Ethane	962	0.0151	1,000	0	96.2	76.1	123				

Sample ID: MB-R84987		SampType: MBLK		Units: mg/L		Prep Date: 6/27/2023		RunNo: 84987			
Client ID: MBLKW		Batch ID: R84987				Analysis Date: 6/27/2023		SeqNo: 1773830			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675									
Ethene	ND	0.0146									
Ethane	ND	0.0151									

Sample ID: 2306408-001AREP		SampType: REP		Units: mg/L		Prep Date: 6/27/2023		RunNo: 84987			
Client ID: BATCH		Batch ID: R84987				Analysis Date: 6/27/2023		SeqNo: 1773815			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	0.910	0.00675						0.8992	1.19	30	E
Ethene	ND	0.0146						0		30	
Ethane	ND	0.0151						0		30	

Client Name: FB	Work Order Number: 2306435
Logged by: Morgan Wilson	Date Received: 6/26/2023 11:36:00 AM

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 holding times 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:	<input type="text" value="Michael Erdahl"/>	Date:	<input type="text" value="6/26/2023"/>
By Whom:	<input type="text" value="Morgan Wilson"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Samples out of hold"/>		
Client Instructions:	<input type="text" value="Okay to proceed"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	0.8

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2306435

Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 3012 16th Ave W

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

SUBCONTRACTOR <u>Fremont</u>	PROJECT NAME/NO. <u>306391</u>	PO # <u>D-350</u>
REMARKS <u>EIM</u>		

TURNAROUND TIME
<input checked="checked" type="checkbox"/> Standard TAT
<input type="checkbox"/> RUSH
Rush charges authorized by: _____
SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED						Notes
						RSK Methane, Ethane, Ethene	Sulfate	Nitrate	Alkalinity	ferrous iron	TOC	
MW28-20230621		6/21/2023	1210	water	5	x	x	x	x	x		

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
<i>[Signature]</i>	<i>[Signature]</i>	Michael Erdahl		Friedman & Bruya		6/26/23	0615
Received by: <i>[Signature]</i>		<i>Ali Miller</i>				6/26/23	1136
Relinquished by:							
Received by:							

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Analytical Results

SiREM File Reference: S-9880

Client: Sound Earth Strategies
Client Project Number: 0731-004
Date Samples Received: June 27, 2023
Date Samples Analyzed: July 5, 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
MW18-20230622	23-14324	22-Jun-23	50x	1.6 J	<1.4	<0.10	1.3 J	<0.06	<0.15
MW21-20230623	23-14325	23-Jun-23	50x	<0.62	136	7.4	<1.3	8.7	0.93 J
MW22-20230623	23-14326	23-Jun-23	50x	<0.62	173	5.0	3.6	12	1.7 J
MW24-20230623	23-14327	23-Jun-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
MW25-20230623	23-14328	23-Jun-23	50x	1.7 J	<1.4	<0.10	<1.3	<0.06	<0.15
IW04-20230622	23-14329	22-Jun-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
IW50-20230623	23-14330	23-Jun-23	50x	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15
IW61-20230623	23-14331	23-Jun-23	50x	2.0	4.4	<0.10	1.9 J	<0.06	<0.15

QL	50	0.6	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
mg/L = milligrams per liter
QL = Quantitation limit
RL = Reprting Limit
J = the associated value is an estimated result between the QL and the RL
< = 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.
Scientist

Date:

6-Jul-23



Chain-of-Custody Form

siremlab.com

180A Market Place Blvd.
Knoxville, TN 37922
(865) 330-0037

Lab #
S-9880

Project Name Troy Laundry Property		Project # 0731-004		Preservative												Analysis																						
Project Manager Levi Fernandes														Volatile Fatty Acids																								
Email lfernandes@soundearthinc.com Also send report to lcoleman@soundearthinc.com																																						
Company SoundEarth Strategies																																						
Address 1011 Southwest Klickitat Way, Suite 212 Seattle, Washington 98134																																						
Phone # 206-306-1900																																						
Sampler's Signature <i>Linnea Coleman</i>				Sampler's Printed Name Linnea Coleman																																		
Client Sample ID		Lab ID		Sampling		Matrix	# of Containers													Other Information																		
				Date	Time																																	
MW18-20230622				6/24/23	1605	H ₂ O	2	X												2440 ml																		
MW21-20230623				6/23/23	0925	↓	↓	X												↓																		
MW22-20230623				↓	1115	↓	↓	X												↓																		
MW24-20230623				↓	1230	↓	↓	X												↓																		
MW25-20230623				↓	0858	↓	↓	X												↓																		
IW04-20230622				6/24/23	1438	↓	↓	X												↓																		
IW50-20230623				6/23/23	1111	↓	↓	X												↓																		
IW61-20230623				6/23/23	1232	↓	↓	X												↓																		
						LGC	6/23/23																															

Cooler Condition: Sample Receipt Good - Blue Ice		P.O. # 0731-004		For Lab Use Only <i>Not associated with any bottle order.</i>											
Cooler Temperature: <i>KX00058</i> <i>3.5 corrected to 5.6 C</i>		Bill To: SoundEarth Strategies													
Custody Seals: Yes <input type="checkbox"/> <i>in box</i> No <input checked="" type="checkbox"/>															

Relinquished By: Signature <i>Linnea Coleman</i>		Received By: Signature <i>Susan Thomas</i>		Relinquished By: Signature		Received By: Signature		Relinquished By: Signature		Received By: Signature	
Printed Name Linnea Coleman		Printed Name Susan Thomas		Printed Name		Printed Name		Printed Name		Printed Name	
Firm SoundEarth		Firm SIREM		Firm		Firm		Firm		Firm	
Date/Time 6/26/23		Date/Time 6-27-2023 1050		Date/Time		Date/Time		Date/Time		Date/Time	

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

In the absence of an executed agreement, submission of samples to SIREM implies acceptance of the terms and conditions of the SIREM Laboratory Services Agreement. The user submitting samples shall be responsible for payment in full for said analyses.



Chain-of-Custody Form

siremlab.com

COPY

180A Market Place Blvd.
Knoxville, TN 37922
(865) 330-0037

Lab #
8-9880

Project Name Troy Laundry Property		Project # 0731-004		Preservative		Analysis															
Project Manager Levi Fernandes				0																	
Email fernandes@soundearthinc.com		Also send report to icoleman@soundearthinc.com																			
Company SoundEarth Strategies																					
Address 1011 Southwest Klickitat Way, Suite 212																					
Seattle, Washington 98134																					
Phone # 206-306-1900																					
Sampler's Signature <i>Linnex Coleman</i>		Sampler's Printed Name Linnex Coleman																			
Client Sample ID		Lab ID		Sampling		Matrix		# of Containers		Volatile Fatty Acids											
				Date		Time															
MW18-20230622				6/22/23		1605		H₂O		2											
MW21-20230623				6/23/23		0925															
MW22-20230623						1115															
MW24-20230623						1230															
MW25-20230623				6/23/23		0858															
IW04-20230622				6/24/23		1438															
IW50-20230623				6/23/23		1111															
IW61-20230623				6/23/23		1232															
						LSC															
						6/23/23															

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

Other Information

2440 ml

Sample Receipt

Cooler Condition: **Good - Blue Ice**

Cooler Temperature: **3.5 corrected to 5.6 C**

Custody Seals: Yes No

Invoice Information

P.O. # **0731-004**

Bill To: **SoundEarth Strategies**

For Lab Use Only

Not associated with any bottle order.

Relinquished By:		Received By:		Relinquished By:		Received By:		Relinquished By:		Received By:	
Signature <i>Linnex Coleman</i>		Signature <i>Susan Thomas</i>		Signature <i>Katrina Cochran</i>		Signature <i>Jemalca Cuntappy</i>		Signature		Signature	
Printed Name Linnex Coleman		Printed Name Susan Thomas		Printed Name Katrina Cochran		Printed Name JEMALCA CUNTAPPY		Printed Name		Printed Name	
Firm SoundEarth		Firm SIREM		Firm SIREM		Firm SIREM		Firm		Firm	
Date/Time 6/26/23		Date/Time 6-27-2023 1050		Date/Time 6-28-23 1000		Date/Time 30Jun23 @ 1550		Date/Time		Date/Time	

Cooler @ 5.8 C

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

In the absence of an executed agreement, submission of samples to SIREM implies acceptance of the terms and conditions of the SIREM Laboratory Services Agreement. The performance of analyses specified on this Chain-of-Custody form and agreement, submitting samples shall be responsible for payment in full for said analyses.

Analytical Results

SiREM File Reference: S-10203

Client: Sound Earth Strategies
Client Project Number: 0731-004
Date Samples Received: December 12, 2023
Date Samples Analyzed: December 15, 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		
MW18-20231207	23-16340	7-Dec-23	50x	<0.50	0.42 J	<0.26	<0.25	<0.06	<0.75		
MW21-20231207	23-16341	7-Dec-23	50x	<0.50	213	<0.26	9.0	9.3	<0.75		
MW22-20231207	23-16342	7-Dec-23	50x	<0.50	218	2.8	<0.25	7.2	<0.75		
MW24-20231207	23-16343	7-Dec-23	50x	<0.50	0.38 J	<0.26	<0.25	<0.06	<0.75		
MW25-20231207	23-16410	7-Dec-23	50x	<0.50	0.38 J	<0.26	<0.25	<0.06	<0.75		
IW04-20231207	23-16344	7-Dec-23	50x	<0.50	0.60 J	<0.26	<0.25	<0.06	<0.75		
IW50-20231207	23-16345	7-Dec-23	50x	<0.50	0.88 J	<0.26	<0.25	<0.06	<0.75		
IW61-20231207	23-16346	7-Dec-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
				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:

Results approved:

Date:

Brooke Rapien

Keladshworth

19-Dec-23

Brooke Rapien, B.Sc.
Laboratory Technician II

Kela Ashworth, B.Sc.
Scientist



Chain-of-Custody Form

siremlab.com

180A Market Place Blvd.
Knoxville, TN 37922
(865) 330-0037

Lab #
S-10203

Project Name Troy Laundry Property		Project # 0731-004		Preservative												Analysis															
Project Manager Levi Fernandes				Volatile Fatty Acids												Preservative Key 0. None 1. HCL 2. Other _____ 3. Other _____ 4. Other _____ 5. Other _____ 6. Other _____															
Email lfernandes@soundearthinc.com Also send report to lcoleman@soundearthinc.com																															
Company SoundEarth Strategies																															
Address 1011 Southwest Klickitat Way, Suite 212																															
City/State/Zip Seattle, Washington 98134																															
Phone # 206-306-1900																															
Sampler's Signature <i>Linnen Coleman</i>		Sampler's Printed Name Linnen Coleman																													
Client Sample ID		Lab ID		Sampling		Matrix	# of Containers																								
				Date	Time															Other Information											
MW18-20231207				12/7/23	1145	H₂O	2	<input checked="" type="checkbox"/>																							
MW21-20231207				↓	1515	↓	↓	<input checked="" type="checkbox"/>																							
MW22-20231207				↓	1510	↓	↓	<input checked="" type="checkbox"/>																							
MW24-20231207				↓	1332	↓	↓	<input checked="" type="checkbox"/>																							
MW25-20231207				↓	1330	↓	↓	<input checked="" type="checkbox"/>																							
IW09-20231207				↓	1025	↓	↓	<input checked="" type="checkbox"/>																							
IW50-20231207				↓	1705	↓	↓	<input checked="" type="checkbox"/>																							
IW61-20231207				↓	1707	↓	↓	<input checked="" type="checkbox"/>																							
LOC 12/8/23																															

Sample Receipt

Cooler Condition: **good**

Cooler Temperature: **4.6°C**

Custody Seals: Yes No

Invoice Information

P.O. # **0731-004**

Bill To: **SoundEarth**

For Lab Use Only

Relinquished By:		Received By:		Relinquished By:		Received By:		Relinquished By:		Received By:	
Signature <i>Linnen Coleman</i>		Signature <i>Linnen Coleman</i>		Signature <i>Linnen Coleman</i>		Signature <i>Kaitland Craichio</i>		Signature		Signature	
Printed Name Linnen Coleman		Printed Name Linnen Coleman		Printed Name Linnen Coleman		Printed Name Kaitland Craichio		Printed Name		Printed Name	
Firm SoundEarth		Firm SoundEarth		Firm SoundEarth		Firm SIREM		Firm		Firm	
Date/Time 12/8/23 0745		Date/Time 12/11/23 0745		Date/Time 12/11/23 0745		Date/Time 12-12-23 1100		Date/Time		Date/Time	

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

In the absence of an executed agreement, submission of samples to SIREM implies consent for performance of analyses specified on this Chain-of-Custody form and agreement with the terms and conditions of the SIREM Laboratory Services Agreement. The entity submitting samples shall be responsible for payment in full for said analyses.



Chain-of-Custody Form
siremlab.com

COPY

180A Market Place Blvd.
Knoxville, TN 37922
(865) 330-0037

Lab #
5-10203

Project Name Troy Laundry Property		Project # 0731-004		Preservative		Analysis	
Project Manager Levi Fernandes				0			
Email lfernandes@soundearthinc.com		Also send report to lcoleman@soundearthinc.com		Volatile Fatty Acids		Preservative Key 0. None 1. HCL 2. Other _____ 3. Other _____ 4. Other _____ 5. Other _____ 6. Other _____	
Company SoundEarth Strategies							
Address 1011 Southwest Klickitat Way, Suite 212							
Seattle, Washington 98134							
Phone # 206-306-1900							
Sampler's Signature <i>Linner Coleman</i>		Sampler's Printed Name Linner Coleman					
Client Sample ID	Lab ID	Sampling		Matrix	# of Containers	Other Information	
		Date	Time				
MW18-20231207		12/7/23	1145	H ₂ O	21	X	✓
MW21-20231207			1515			X	✓
MW22-20231207			1510			X	✓
MW24-20231207			1332			X	✓
MW25-20231207			1330			X	✓
IW09-20231207			1025			X	✓
IW50-20231207			1705			X	✓
IW61-20231207			1707			X	✓
LOL 12/8/23							

Cooler Condition: Sample Receipt wood	P.O. # 0731-004	For Lab Use Only
Cooler Temperature: 4.6°C	Bill To: SoundEarth	
Custody Seals: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Relinquished By: Signature: <i>Linner Coleman</i> Printed Name: Linner Coleman Firm: SoundEarth Date/Time: 12/8/23 0745	Received By: Signature: <i>Linner Coleman</i> Printed Name: Linner Coleman Firm: SoundEarth Date/Time: 12/11/23 0745	Relinquished By: Signature: <i>Kaitland Cracchiola</i> Printed Name: Kaitland Cracchiola Firm: SIREM Date/Time: 12-12-23 1100	Received By: Signature: <i>Kaitland Cracchiola</i> Printed Name: Kaitland Cracchiola Firm: SIREM Date/Time: 12-12-23 1600	Relinquished By: Signature: <i>Celina Duong</i> Printed Name: Celina Duong Firm: SIREM Date/Time: 13-Dec-2023 3:40pm 54°C	Received By: Signature: <i>Celina Duong</i> Printed Name: Celina Duong Firm: SIREM Date/Time: 13-Dec-2023 3:40pm 54°C
--	---	--	--	--	--

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

In the absence of an executed agreement, submission of samples to SIREM implies consent for performance of analyses specified on this Chain-of-Custody form and agreement with the terms and conditions of the SIREM Laboratory Services Agreement. The entity submitting samples shall be responsible for payment in full for said analyses.

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 19, 2023

Levi Fernandes, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Fernandes:

Included are the results from the testing of material submitted on December 5, 2023 from the SOU_0731-004-08_ 20231205, F&BI 312070 project. There are 19 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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: Linnea Coleman, Tom Cammarat
SOU1219R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 5, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_20231205, F&BI 312070 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
312070 -01	MW28-20231204
312070 -02	MW33-20231205
312070 -03	MW32-20231205

Sample MW28-20231204 was sent to Fremont Analytical for nitrate, sulfate, alkalinity, ferrous iron, and RSK dissolved gases analyses. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/05/23

Project: SOU_0731-004-08_ 20231205, F&BI 312070

Date Extracted: 12/07/23

Date Analyzed: 12/07/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW28-20231204 312070-01	<100	97
Method Blank 03-2527 MB	<100	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/05/23

Project: SOU_0731-004-08_ 20231205, F&BI 312070

Date Extracted: 12/06/23

Date Analyzed: 12/06/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW28-20231204 312070-01	54 x	<250	101
Method Blank 03-2792 MB2	<50	<250	110

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW28-20231204	Client:	SoundEarth Strategies
Date Received:	12/05/23	Project:	SOU_0731-004-08_20231205
Date Extracted:	12/06/23	Lab ID:	312070-01 x10
Date Analyzed:	12/18/23	Data File:	312070-01 x10.043
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Manganese	563
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW28-20231204	Client:	SoundEarth Strategies
Date Received:	12/05/23	Project:	SOU_0731-004-08_20231205
Date Extracted:	12/07/23	Lab ID:	312070-01 x10
Date Analyzed:	12/07/23	Data File:	312070-01 x10.094
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Iron	904
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_20231205
Date Extracted:	12/06/23	Lab ID:	I3-960 mb
Date Analyzed:	12/06/23	Data File:	I3-960 mb.088
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Manganese	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_20231205
Date Extracted:	12/07/23	Lab ID:	I3-961 mb
Date Analyzed:	12/07/23	Data File:	I3-961 mb.050
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	<50
------	-----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW28-20231204	Client:	SoundEarth Strategies
Date Received:	12/05/23	Project:	SOU_0731-004-08_20231205
Date Extracted:	12/07/23	Lab ID:	312070-01
Date Analyzed:	12/07/23	Data File:	120711.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	110	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	10
Trichloroethene	1.2
Tetrachloroethene	1.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW33-20231205	Client:	SoundEarth Strategies
Date Received:	12/05/23	Project:	SOU_0731-004-08_20231205
Date Extracted:	12/07/23	Lab ID:	312070-02
Date Analyzed:	12/07/23	Data File:	120710.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	103	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW32-20231205	Client:	SoundEarth Strategies
Date Received:	12/05/23	Project:	SOU_0731-004-08_20231205
Date Extracted:	12/14/23	Lab ID:	312070-03
Date Analyzed:	12/14/23	Data File:	121412.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	71	132
Toluene-d8	98	68	139
4-Bromofluorobenzene	104	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20231205
Date Extracted:	12/14/23	Lab ID:	03-2893 mb
Date Analyzed:	12/14/23	Data File:	121410.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	104	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20231205
Date Extracted:	12/07/23	Lab ID:	03-2789 mb
Date Analyzed:	12/07/23	Data File:	120708.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/05/23

Project: SOU_0731-004-08_ 20231205, F&BI 312070

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 312070-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	110	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/05/23

Project: SOU_0731-004-08_ 20231205, F&BI 312070

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	112	112	72-139	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/05/23

Project: SOU_0731-004-08_ 20231205, F&BI 312070

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 312058-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Manganese	ug/L (ppb)	20	9.79	87 b	81 b	70-130	7 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Manganese	ug/L (ppb)	20	85	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/05/23

Project: SOU_0731-004-08_ 20231205, F&BI 312070

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 312091-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	1,900	225 b	52 b	70-130	125 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	85	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/05/23

Project: SOU_0731-004-08_ 20231205, F&BI 312070

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 312070-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	112	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	92	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	91	10-211
Trichloroethene	ug/L (ppb)	10	<0.5	98	35-149
Tetrachloroethene	ug/L (ppb)	10	<1	96	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent		Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	112	112	64-142	0
trans-1,2-Dichloroethene	ug/L (ppb)	10	92	92	70-130	0
cis-1,2-Dichloroethene	ug/L (ppb)	10	90	91	70-130	1
Trichloroethene	ug/L (ppb)	10	98	98	70-130	0
Tetrachloroethene	ug/L (ppb)	10	98	96	70-130	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/05/23

Project: SOU_0731-004-08_ 20231205, F&BI 312070

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 312220-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	108	16-176
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	105	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	104	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	100	43-133
Tetrachloroethene	ug/L (ppb)	10	<1	96	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent		Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCS D		
Vinyl chloride	ug/L (ppb)	10	98	111	43-149	12
trans-1,2-Dichloroethene	ug/L (ppb)	10	95	107	70-130	12
cis-1,2-Dichloroethene	ug/L (ppb)	10	93	107	70-130	14
Trichloroethene	ug/L (ppb)	10	89	102	70-130	14
Tetrachloroethene	ug/L (ppb)	10	86	95	70-130	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported 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.

312070

SAMPLE CHAIN OF CUSTODY

12/05/23

12/05/23 of 1

Send Report To Levi Fernandes, Linnea Coleman, Tom Cammarata

Company SoundEarth Strategies

Address 1011 Southwest Klickitat Way, Suite 212

City, State, ZIP Seattle, WA 98134

SAMPLERS (signature)

Brennan Boeker

PROJECT NAME/NO.

Troy Laundry Property

PO #

0731-004-08

TURNAROUND TIME

Standard (2 Weeks)

Rush charges authorized by:

SAMPLE DISPOSAL

⊗ Dispose after 30 days
Return samples
Will call with instructions

REMARKS

*cVOCs = PCE, TCE, Cis/Trans-DCE, and Vinyl Chloride Reporting Limit = 0.2 ug/L

EIM Y

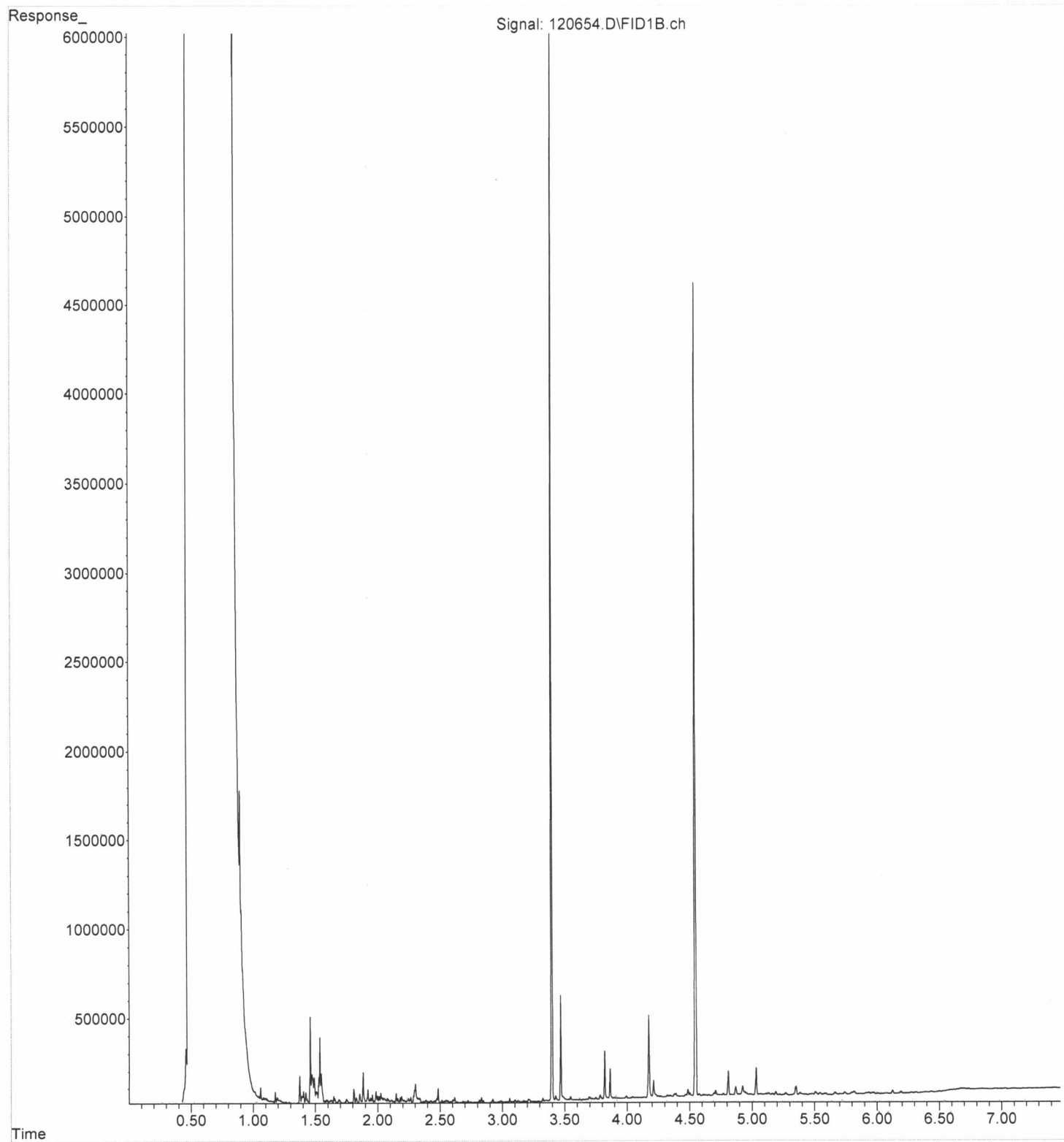
Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs * by EPA 8260C	Methane, Ethane, Ethene by RSK175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes
MW28-20231204	MW28	-	04K	12/4/23	1620	GW	11	X			X	X	X	X	X		A-per LC
MW33-20231205	MW33	-	04C	12/5/23	1110		3				X						12/14/23 ME
MW32-20231205	MW32	-	03K-C	12/5/23	1340		3				X						HOLD
LA 12/5/23																	
Samples received at 4 o'clock																	

Friedman & Bruya, Inc.
5500 4th Avenue South
Seattle, WA 98108
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
<i>Brennan Boeker</i>		Brennan Boeker		SES		12/05/23		1640	
Received by:		HONG NGUYEN		FBF		12/5/23		1640	
Relinquished by:									
Received by:									

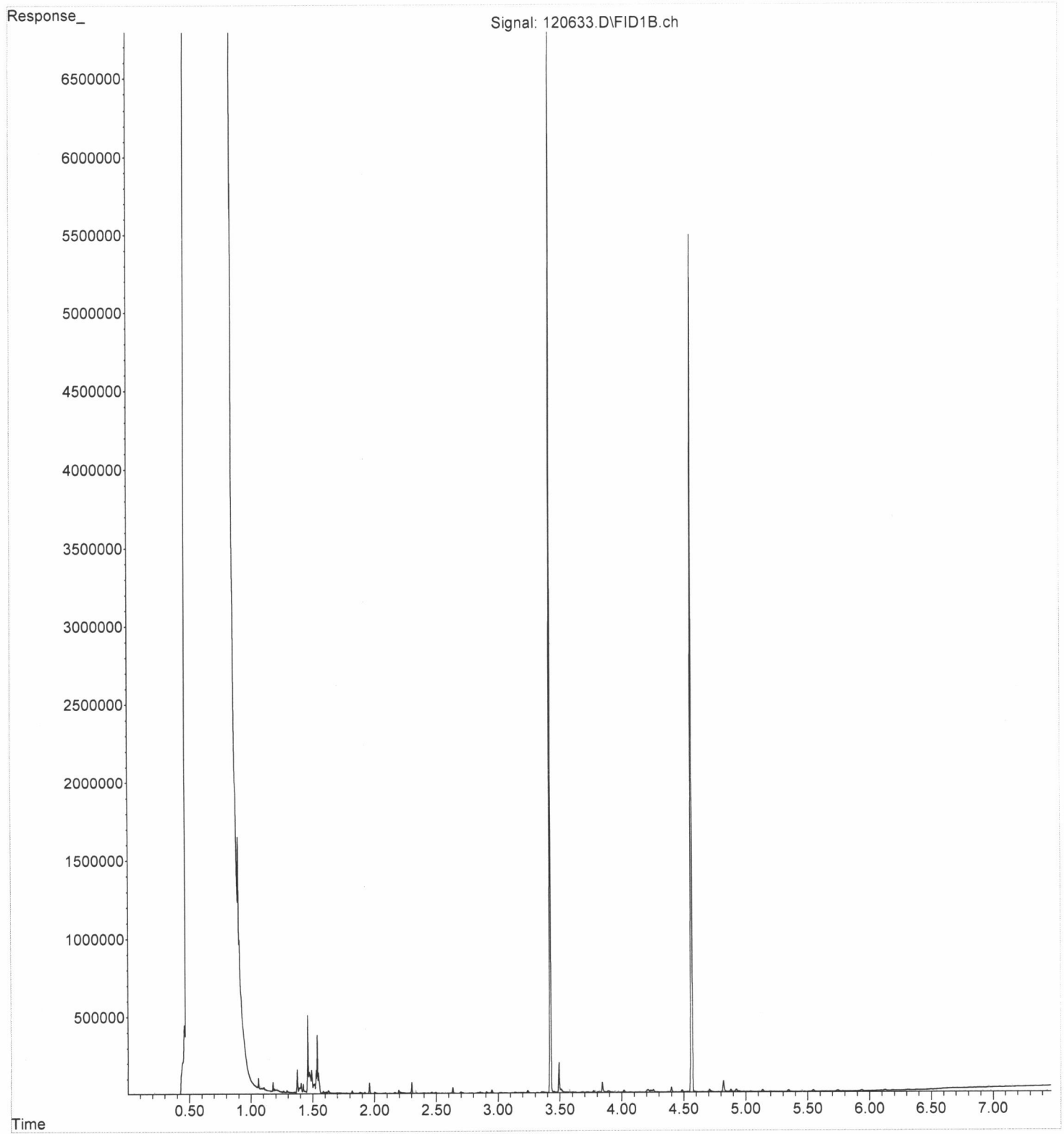
File :P:\Proc_GC14\12-06-23\120654.D
Operator : TL
Acquired : 06 Dec 2023 07:30 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 312070-01
Misc Info :
Vial Number: 46

ERR



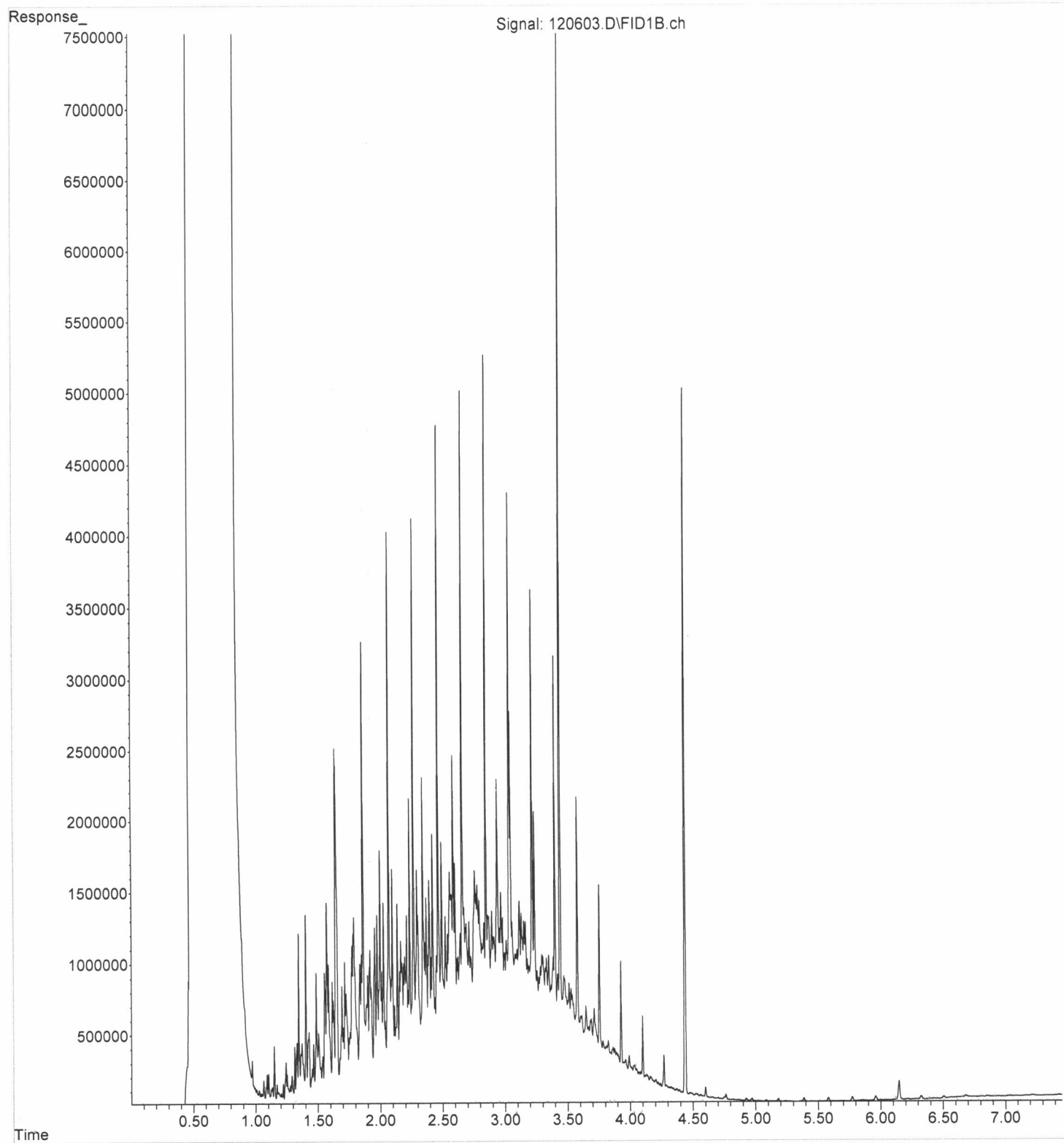
File : P:\Proc_GC14\12-06-23\120633.D
Operator : TL
Acquired : 06 Dec 2023 03:22 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 03-2792 mb2
Misc Info :
Vial Number: 31

ERR



File : P:\Proc_GC14\12-06-23\120603.D
Operator : TL
Acquired : 06 Dec 2023 07:57 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 70-26F
Misc Info :
Vial Number: 3

ERR





3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 312070
Work Order Number: 2312138

December 13, 2023

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 12/6/2023 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B

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

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

CLIENT: Friedman & Bruya
Project: 312070
Work Order: 2312138

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2312138-001	MW28-20231204	12/04/2023 4:20 PM	12/06/2023 12:05 PM

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

CLIENT: Friedman & Bruya

Project: 312070

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: 2312138
Date Reported: 12/13/2023

CLIENT: Friedman & Bruya
Project: 312070

Lab ID: 2312138-001

Collection Date: 12/4/2023 4:20:00 PM

Client Sample ID: MW28-20231204

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R88333	Analyst: NR
Methane	0.0554	0.00675		mg/L	1	12/13/2023 3:36:00 PM
Ethene	ND	0.0146		mg/L	1	12/13/2023 3:36:00 PM
Ethane	ND	0.0151		mg/L	1	12/13/2023 3:36:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 42255	Analyst: FG
Nitrate (as N)	ND	10.0	D	mg/L	100	12/6/2023 2:35:00 PM
Sulfate	ND	60.0	D*	mg/L	100	12/6/2023 2:35:00 PM
NOTES:						
* - Associated LCS is below acceptance criteria. Result may be low-biased.						
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R88297	Analyst: ME
Alkalinity, Total (As CaCO ₃)	237	2.50		mg/L	1	12/12/2023 11:04:03 AM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R88185	Analyst: AM
Ferrous Iron	ND	0.150	H	mg/L	1	12/6/2023 2:19:42 PM

Work Order: 2312138
CLIENT: Friedman & Bruya
Project: 312070

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

Sample ID: MB-R88297	SampType: MBLK	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88297							
Client ID: MBLKW	Batch ID: R88297	Analysis Date: 12/12/2023	SeqNo: 1843189								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2.50									

Sample ID: LCS-R88297	SampType: LCS	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88297							
Client ID: LCSW	Batch ID: R88297	Analysis Date: 12/12/2023	SeqNo: 1843190								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	105	2.50	100.0	0	105	86.2	126.2				

Sample ID: 2312138-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88297							
Client ID: MW28-20231204	Batch ID: R88297	Analysis Date: 12/12/2023	SeqNo: 1843193								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	243	2.50						236.5	2.73	20	

Work Order: 2312138
CLIENT: Friedman & Bruya
Project: 312070

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: LCS-R88185	SampType: LCS	Units: mg/L				Prep Date: 12/6/2023	RunNo: 88185				
Client ID: LCSW	Batch ID: R88185					Analysis Date: 12/6/2023	SeqNo: 1841039				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.427	0.150	0.4000	0	107	85	115				

Sample ID: MB-R88185	SampType: MBLK	Units: mg/L				Prep Date: 12/6/2023	RunNo: 88185				
Client ID: MBLKW	Batch ID: R88185					Analysis Date: 12/6/2023	SeqNo: 1841040				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.150									

Sample ID: 2312138-001BDUP	SampType: DUP	Units: mg/L				Prep Date: 12/6/2023	RunNo: 88185				
Client ID: MW28-20231204	Batch ID: R88185					Analysis Date: 12/6/2023	SeqNo: 1841042				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.150						0		20	H

Sample ID: 2312138-001BMS	SampType: MS	Units: mg/L				Prep Date: 12/6/2023	RunNo: 88185				
Client ID: MW28-20231204	Batch ID: R88185					Analysis Date: 12/6/2023	SeqNo: 1841043				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.617	0.150	0.4000	0.09712	130	70	130				H

Sample ID: 2312138-001BMSD	SampType: MSD	Units: mg/L				Prep Date: 12/6/2023	RunNo: 88185				
Client ID: MW28-20231204	Batch ID: R88185					Analysis Date: 12/6/2023	SeqNo: 1841044				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.614	0.150	0.4000	0.09712	129	70	130	0.6169	0.491	30	H

Work Order: 2312138
CLIENT: Friedman & Bruya
Project: 312070

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: MB-42255		SampType: MBLK		Units: mg/L		Prep Date: 12/6/2023		RunNo: 88202			
Client ID: MBLKW		Batch ID: 42255				Analysis Date: 12/6/2023		SeqNo: 1841190			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: LCS-42255		SampType: LCS		Units: mg/L		Prep Date: 12/6/2023		RunNo: 88202			
Client ID: LCSW		Batch ID: 42255				Analysis Date: 12/6/2023		SeqNo: 1841191			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.675	0.100	0.7500	0	90.0	90	110				
Sulfate	3.37	0.600	3.750	0	89.8	90	110				S

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

Sample ID: 2312113-001ADUP		SampType: DUP		Units: mg/L		Prep Date: 12/6/2023		RunNo: 88202			
Client ID: BATCH		Batch ID: 42255				Analysis Date: 12/6/2023		SeqNo: 1841193			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100						0		20	
Sulfate	ND	0.600						0		20	

Sample ID: 2312113-001AMS		SampType: MS		Units: mg/L		Prep Date: 12/6/2023		RunNo: 88202			
Client ID: BATCH		Batch ID: 42255				Analysis Date: 12/6/2023		SeqNo: 1841195			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.694	0.100	0.7500	0	92.5	80	120				
Sulfate	3.38	0.600	3.750	0	90.3	80	120				

Sample ID: 2312113-001AMSD		SampType: MSD		Units: mg/L		Prep Date: 12/6/2023		RunNo: 88202			
Client ID: BATCH		Batch ID: 42255				Analysis Date: 12/6/2023		SeqNo: 1841197			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.692	0.100	0.7500	0	92.3	80	120	0.6940	0.289	20	

Work Order: 2312138
 CLIENT: Friedman & Bruya
 Project: 312070

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2312113-001AMSD	SampType: MSD	Units: mg/L	Prep Date: 12/6/2023	RunNo: 88202							
Client ID: BATCH	Batch ID: 42255	Analysis Date: 12/6/2023	SeqNo: 1841197								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.37	0.600	3.750	0	89.9	80	120	3.385	0.385	20	

Work Order: 2312138
CLIENT: Friedman & Bruya
Project: 312070

QC SUMMARY REPORT
Dissolved Gases by RSK-175

Sample ID: LCS-R88333		SampType: LCS		Units: ppmv		Prep Date: 12/13/2023		RunNo: 88333			
Client ID: LCSW		Batch ID: R88333				Analysis Date: 12/13/2023		SeqNo: 1844338			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	941	0.00675	1,000	0	94.1	73.6	124				
Ethene	956	0.0146	1,000	0	95.6	76.3	122				
Ethane	933	0.0151	1,000	0	93.3	76.1	123				

Sample ID: MB-R88333		SampType: MBLK		Units: mg/L		Prep Date: 12/13/2023		RunNo: 88333			
Client ID: MBLKW		Batch ID: R88333				Analysis Date: 12/13/2023		SeqNo: 1844328			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675									
Ethene	ND	0.0146									
Ethane	ND	0.0151									

Sample ID: 2312138-001CREP		SampType: REP		Units: mg/L		Prep Date: 12/13/2023		RunNo: 88333			
Client ID: MW28-20231204		Batch ID: R88333				Analysis Date: 12/13/2023		SeqNo: 1844320			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	0.0551	0.00675						0.05537	0.515	30	
Ethene	ND	0.0146						0		30	
Ethane	ND	0.0151						0		30	

Client Name: FB	Work Order Number: 2312138
Logged by: Morgan Wilson	Date Received: 12/6/2023 12:05:00 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:	<input type="text" value="Michael Erdahl"/>	Date:	<input type="text" value="12/6/2023"/>
By Whom:	<input type="text" value="Morgan Wilson"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Ferrous Iron out of hold"/>		
Client Instructions:	<input type="text" value="Okay to proceed"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	0.6

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

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 19, 2023

Levi Fernandes, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Fernandes:

Included are the results from the testing of material submitted on December 6, 2023 from the SOU_0731-004-08_ 20231206, F&BI 312091 project. There are 17 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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: Linnea Coleman, Tom Cammarata
SOU1219R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 6, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_ 20231206, F&BI 312091 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
312091 -01	MW01-20231206
312091 -02	MW13-20231206
312091 -03	MW26-20231206
312091 -04	MW27-20231206
312091 -05	MW31-20231206
312091 -06	MW34-20231206

Sample MW26-20231206 was sent to Fremont Analytical for nitrate, sulfate, alkalinity, ferrous iron, RSK dissolved gases, and total organic carbon analyses. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/06/23

Project: SOU_0731-004-08_ 20231206, F&BI 312091

Date Extracted: 12/08/23

Date Analyzed: 12/08/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW13-20231206 312091-02	<100	95
Method Blank 03-2528 MB	<100	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/06/23

Project: SOU_0731-004-08_ 20231206, F&BI 312091

Date Extracted: 12/07/23

Date Analyzed: 12/07/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
MW13-20231206 312091-02	<50	<250	103
Method Blank 03-2821 MB	<50	<250	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW26-20231206	Client:	SoundEarth Strategies
Date Received:	12/06/23	Project:	SOU_0731-004-08_20231206
Date Extracted:	12/13/23	Lab ID:	312091-03
Date Analyzed:	12/15/23	Data File:	312091-03.123
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	1,730
Manganese	281

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_20231206
Date Extracted:	12/13/23	Lab ID:	I3-978 mb2
Date Analyzed:	12/18/23	Data File:	I3-978 mb2.041
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW01-20231206	Client:	SoundEarth Strategies
Date Received:	12/06/23	Project:	SOU_0731-004-08_20231206
Date Extracted:	12/07/23	Lab ID:	312091-01
Date Analyzed:	12/07/23	Data File:	120712.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW13-20231206	Client:	SoundEarth Strategies
Date Received:	12/06/23	Project:	SOU_0731-004-08_20231206
Date Extracted:	12/07/23	Lab ID:	312091-02
Date Analyzed:	12/07/23	Data File:	120714.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	103	84	115
4-Bromofluorobenzene	109	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	0.67
Tetrachloroethene	5.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW26-20231206	Client:	SoundEarth Strategies
Date Received:	12/06/23	Project:	SOU_0731-004-08_20231206
Date Extracted:	12/07/23	Lab ID:	312091-03
Date Analyzed:	12/07/23	Data File:	120716.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	107	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	5.8
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW27-20231206	Client:	SoundEarth Strategies
Date Received:	12/06/23	Project:	SOU_0731-004-08_20231206
Date Extracted:	12/07/23	Lab ID:	312091-04
Date Analyzed:	12/07/23	Data File:	120717.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	107	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	4.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW31-20231206	Client:	SoundEarth Strategies
Date Received:	12/06/23	Project:	SOU_0731-004-08_20231206
Date Extracted:	12/07/23	Lab ID:	312091-05
Date Analyzed:	12/07/23	Data File:	120713.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	106	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	2.6
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW34-20231206	Client:	SoundEarth Strategies
Date Received:	12/06/23	Project:	SOU_0731-004-08_20231206
Date Extracted:	12/07/23	Lab ID:	312091-06
Date Analyzed:	12/07/23	Data File:	120715.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	6.4
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20231206
Date Extracted:	12/07/23	Lab ID:	03-2789 mb
Date Analyzed:	12/07/23	Data File:	120708.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/06/23

Project: SOU_0731-004-08_ 20231206, F&BI 312091

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 312091-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	100	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/06/23

Project: SOU_0731-004-08_ 20231206, F&BI 312091

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	73	71	65-151	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/06/23

Project: SOU_0731-004-08_ 20231206, F&BI 312091

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 312177-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	419	118 b	103 b	70-130	14 b
Manganese	ug/L (ppb)	20	335	96 b	21 b	70-130	128 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	93	85-115
Manganese	ug/L (ppb)	20	89	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/06/23

Project: SOU_0731-004-08_ 20231206, F&BI 312091

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 312070-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	112	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	92	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	91	10-211
Trichloroethene	ug/L (ppb)	10	<0.5	98	35-149
Tetrachloroethene	ug/L (ppb)	10	<1	96	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent		Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	112	112	64-142	0
trans-1,2-Dichloroethene	ug/L (ppb)	10	92	92	70-130	0
cis-1,2-Dichloroethene	ug/L (ppb)	10	90	91	70-130	1
Trichloroethene	ug/L (ppb)	10	98	98	70-130	0
Tetrachloroethene	ug/L (ppb)	10	98	96	70-130	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported 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.

312091

SAMPLE CHAIN OF CUSTODY

12/06/23

WS2 / Ia / 45

Page # of 1

Send Report To Levi Fernandes, Linnea Coleman, Tom Cammarata
 Company SoundEarth Strategies

Address 1011 Southwest Klickitat Way, Suite 212

City, State, ZIP Seattle, WA 98134

SAMPLERS (signature)	
PROJECT NAME/NO.	Troy Laundry Property
PO #	0731-004-08
REMARKS	*cVOCs = PCE, TCE, Cis/Trans-DCE, and Vinyl Chloride Reporting Limit = 0.2 ug/L
EIM Y	

TURNAROUND TIME	Standard (2 Weeks)
Rush charges authorized by:	
SAMPLE DISPOSAL	<input checked="" type="checkbox"/> Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs * by EPA 8260C	Methane, Ethane, Ethene by RSK175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes
MW01-20231206	MW01	-	01442/0623	11/19	1420		3				X						
MW13-20231206	MW13	-	02	09/28			5	X			X						
MW26-20231206	MW26	-	03	12/30			10				X	X					
MW27-20231206	MW27	-	04/AK	16/17			3				X	X					
MW31-20231206	MW31	-	05	14/15			3				X	X					
MW34-20231206	MW34	-	06	14/20			3				X	X					
					16/1												
					12/6/23												

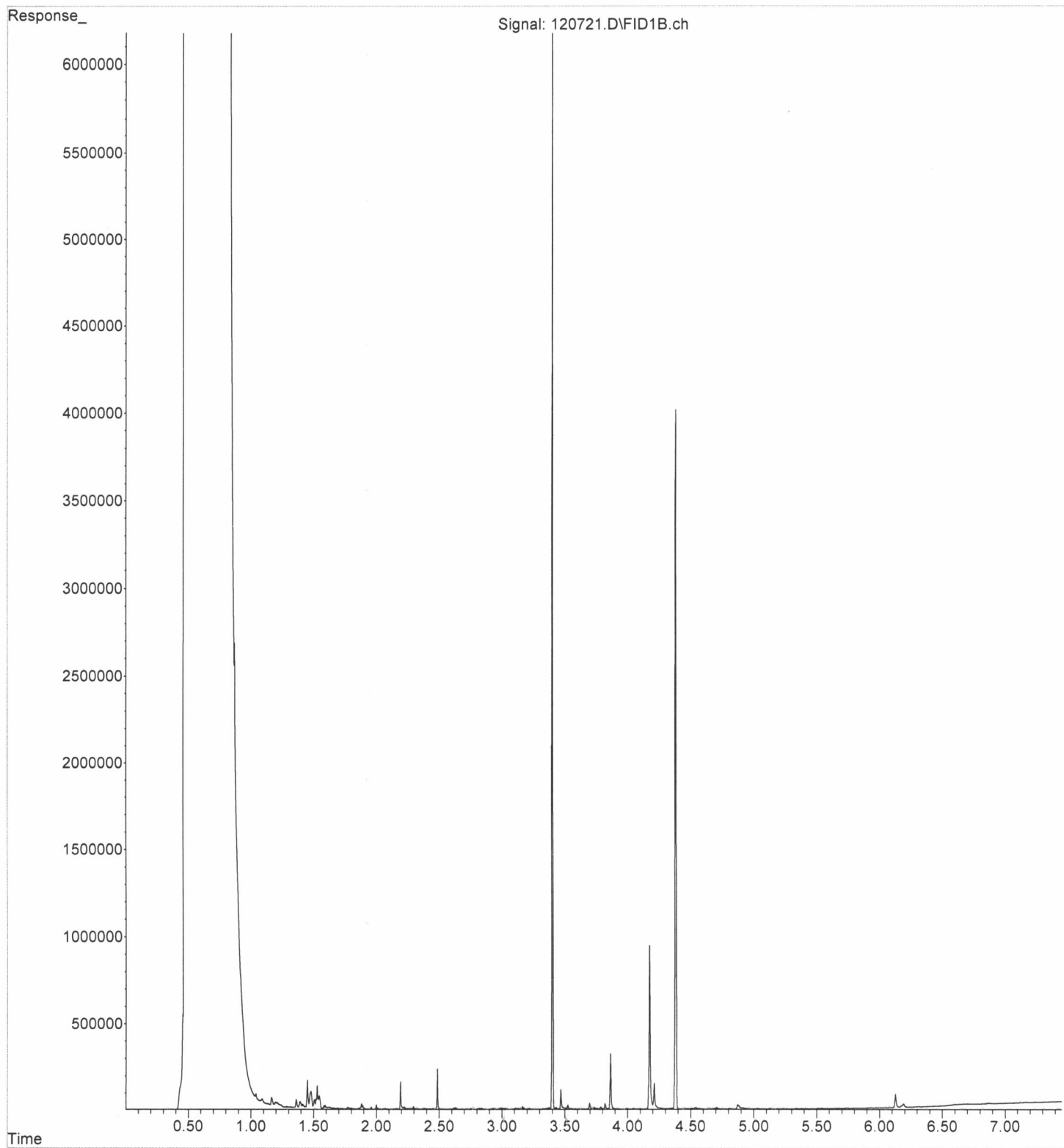
Friedman & Bryva, Inc.
 5500 4th Avenue South
 Seattle, WA 98108
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
		Linnea Coleman		SES		12/6/23	1800
		Wesley Eare		TRB		12/06/23	18:00
Received by:							
Relinquished by:							
Received by:							
Relinquished by:							
Received by:							
Relinquished by:							

Samples received at 3 °C

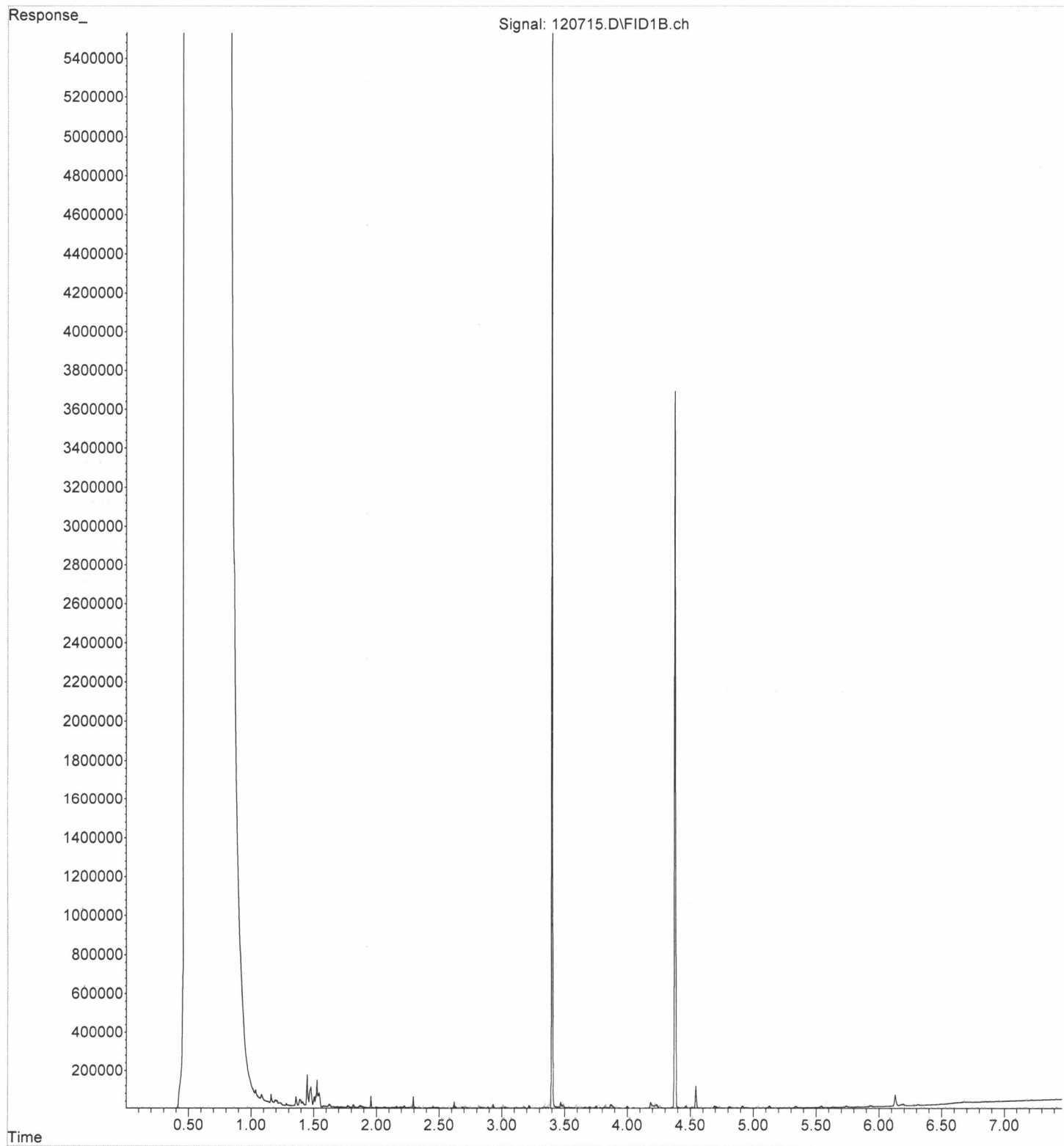
File : P:\Proc_GC14\12-07-23\120721.D
Operator : TL
Acquired : 07 Dec 2023 04:19 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 312091-02
Misc Info :
Vial Number: 16

ERR



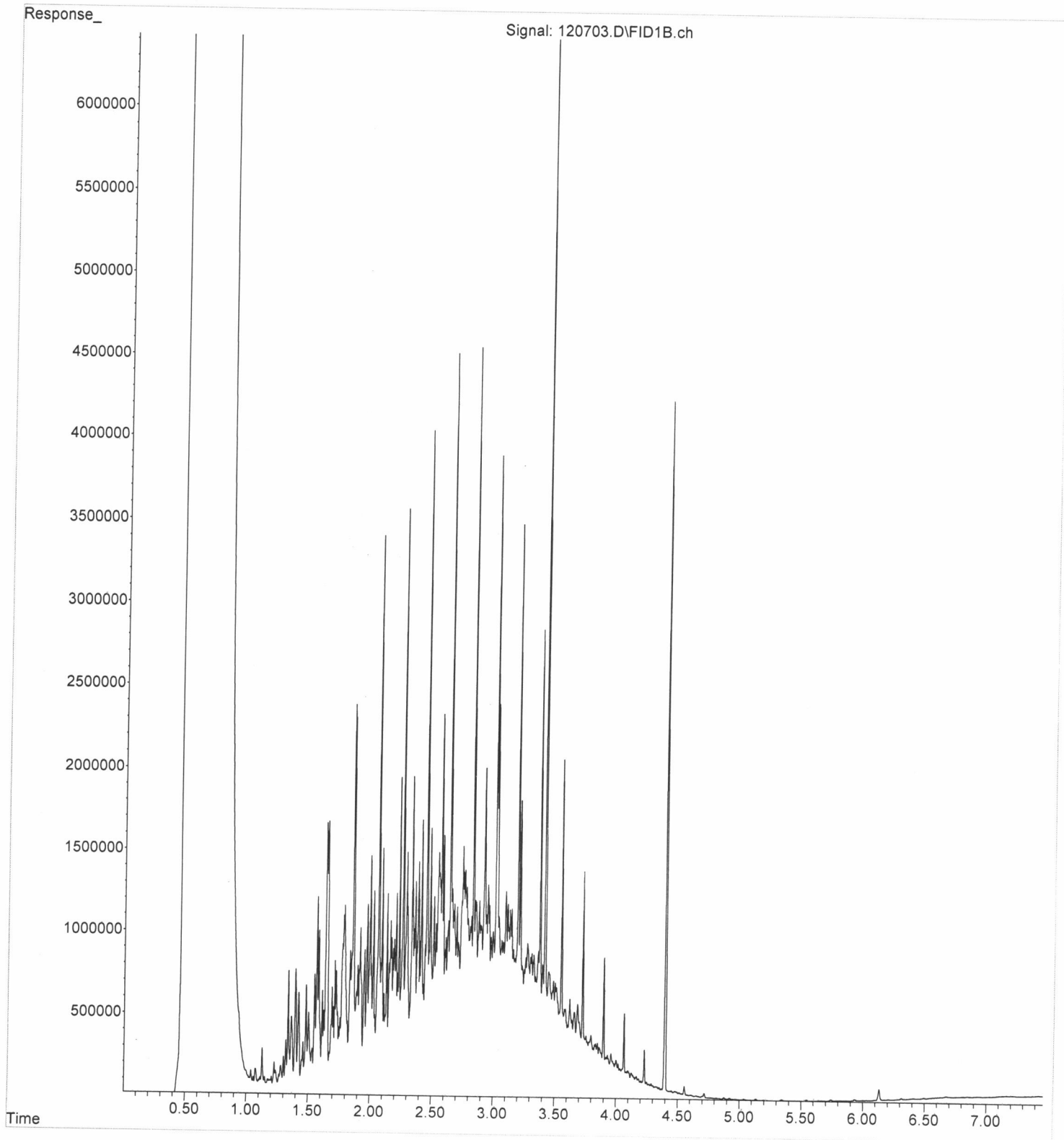
File : P:\Proc_GC14\12-07-23\120715.D
Operator : TL
Acquired : 07 Dec 2023 03:09 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 03-2821 mb
Misc Info :
Vial Number: 10

ERR



File : P:\Proc_GC14\12-07-23\120703.D
Operator : TL
Acquired : 07 Dec 2023 08:35 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 70-26F
Misc Info :
Vial Number: 3

ERR





3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 312091
Work Order Number: 2312186

December 14, 2023

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 12/7/2023 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C

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

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



Date: 12/14/2023

CLIENT: Friedman & Bruya
Project: 312091
Work Order: 2312186

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2312186-001	MW26-20231206	12/06/2023 12:30 PM	12/07/2023 9:45 AM

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

Original

CLIENT: Friedman & Bruya

Project: 312091

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: 2312186
Date Reported: 12/14/2023

CLIENT: Friedman & Bruya
Project: 312091

Lab ID: 2312186-001

Collection Date: 12/6/2023 12:30:00 PM

Client Sample ID: MW26-20231206

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R88358	Analyst: NR
Methane	ND	0.00675		mg/L	1	12/14/2023 11:46:00 AM
Ethene	ND	0.0146		mg/L	1	12/14/2023 11:46:00 AM
Ethane	ND	0.0151		mg/L	1	12/14/2023 11:46:00 AM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 42277	Analyst: FG
Nitrate (as N)	ND	0.100	H	mg/L	1	12/11/2023 7:03:00 PM
Sulfate	13.2	0.600	H	mg/L	1	12/11/2023 7:03:00 PM
<u>Total Organic Carbon by SM 5310C</u>					Batch ID: R88266	Analyst: FG
Total Organic Carbon	1.03	0.700		mg/L	1	12/12/2023 12:17:00 PM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R88318	Analyst: ME
Alkalinity, Total (As CaCO ₃)	63.0	2.50		mg/L	1	12/13/2023 12:18:32 PM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R88203	Analyst: AM
Ferrous Iron	ND	0.150		mg/L	1	12/7/2023 10:24:53 AM

Work Order: 2312186
CLIENT: Friedman & Bruya
Project: 312091

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

Sample ID: MB-R88318	SampType: MBLK	Units: mg/L	Prep Date: 12/13/2023	RunNo: 88318							
Client ID: MBLKW	Batch ID: R88318	Analysis Date: 12/13/2023	SeqNo: 1844020								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2.50									

Sample ID: LCS-R88318	SampType: LCS	Units: mg/L	Prep Date: 12/13/2023	RunNo: 88318							
Client ID: LCSW	Batch ID: R88318	Analysis Date: 12/13/2023	SeqNo: 1844030								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	108	2.50	100.0	0	108	86.2	126.2				

Sample ID: 2312186-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 12/13/2023	RunNo: 88318							
Client ID: MW26-20231206	Batch ID: R88318	Analysis Date: 12/13/2023	SeqNo: 1844032								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	65.3	2.50						62.99	3.58	20	

Work Order: 2312186
CLIENT: Friedman & Bruya
Project: 312091

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: MB-R88203	SampType: MBLK	Units: mg/L	Prep Date: 12/7/2023	RunNo: 88203							
Client ID: MBLKW	Batch ID: R88203		Analysis Date: 12/7/2023	SeqNo: 1844463							
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-R88203	SampType: LCS	Units: mg/L	Prep Date: 12/7/2023	RunNo: 88203							
Client ID: LCSW	Batch ID: R88203		Analysis Date: 12/7/2023	SeqNo: 1844464							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.417	0.150	0.4000	0	104	85	115				

Sample ID: 2312178-002EDUP	SampType: DUP	Units: mg/L	Prep Date: 12/7/2023	RunNo: 88203							
Client ID: BATCH	Batch ID: R88203		Analysis Date: 12/7/2023	SeqNo: 1844467							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	150	37.5						141.4	6.21	20	DQ

NOTES:

Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

Sample ID: 2312178-002EMS	SampType: MS	Units: mg/L	Prep Date: 12/7/2023	RunNo: 88203							
Client ID: BATCH	Batch ID: R88203		Analysis Date: 12/7/2023	SeqNo: 1844468							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	251	37.5	100.0	141.4	110	70	130				D

Sample ID: 2312178-002EMSD	SampType: MSD	Units: mg/L	Prep Date: 12/7/2023	RunNo: 88203							
Client ID: BATCH	Batch ID: R88203		Analysis Date: 12/7/2023	SeqNo: 1844469							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	268	37.5	100.0	141.4	127	70	130	250.9	6.69	30	D

Work Order: 2312186
CLIENT: Friedman & Bruya
Project: 312091

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: MB-42277	SampType: MBLK	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: MBLKW	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842906							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: 2312051-001BDUP	SampType: DUP	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: BATCH	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842909							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.100						0		20	
Sulfate	11.2	0.600						11.22	0.465	20	

Sample ID: 2312051-001BMS	SampType: MS	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: BATCH	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842934							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.818	0.100	0.7500	0.09800	96.0	80	120				
Sulfate	15.0	0.600	3.750	11.22	102	80	120				

Sample ID: 2312051-001BMSD	SampType: MSD	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: BATCH	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842935							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.824	0.100	0.7500	0.09800	96.8	80	120	0.8180	0.731	20	
Sulfate	15.0	0.600	3.750	11.22	102	80	120	15.04	0.0332	20	

Sample ID: LCS-42277	SampType: LCS	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: LCSW	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842936							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.709	0.100	0.7500	0	94.5	90	110				
Sulfate	3.47	0.600	3.750	0	92.5	90	110				

Work Order: 2312186
CLIENT: Friedman & Bruya
Project: 312091

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: LCS-42277	SampType: LCS	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: LCSW	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842936							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2312243-009ADUP	SampType: DUP	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: BATCH	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1843058							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100						0		20	H
Sulfate	ND	0.600						0		20	

Sample ID: 2312243-009AMS	SampType: MS	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: BATCH	Batch ID: 42277		Analysis Date: 12/12/2023	SeqNo: 1843061							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.718	0.100	0.7500	0.07600	85.6	80	120				H
Sulfate	3.32	0.600	3.750	0.1680	84.0	80	120				

Work Order: 2312186
CLIENT: Friedman & Bruya
Project: 312091

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: MB-R88266	SampType: MBLK	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: MBLKW	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843979								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.700									

Sample ID: LCS-R88266	SampType: LCS	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: LCSW	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843980								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.06	0.700	5.000	0	101	90	116				

Sample ID: 2312173-007DDUP	SampType: DUP	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: BATCH	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843982								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.74	0.700						5.725	0.279	20	

Sample ID: 2312173-007DMS	SampType: MS	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: BATCH	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843983								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	10.5	0.700	5.000	5.725	94.6	41.1	150				

Sample ID: 2312173-007DMSD	SampType: MSD	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: BATCH	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843984								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	10.4	0.700	5.000	5.725	94.2	41.1	150	10.45	0.192	30	

Work Order: 2312186
CLIENT: Friedman & Bruya
Project: 312091

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: 2312243-001DDUP	SampType: DUP	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: BATCH	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843956								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.30	0.700						5.314	0.339	20	

Sample ID: 2312243-001DMS	SampType: MS	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: BATCH	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843957								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	10.2	0.700	5.000	5.314	98.6	41.1	150				

Work Order: 2312186
CLIENT: Friedman & Bruya
Project: 312091

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: LCS-R88358		SampType: LCS		Units: ppmv		Prep Date: 12/14/2023		RunNo: 88358			
Client ID: LCSW		Batch ID: R88358				Analysis Date: 12/14/2023		SeqNo: 1844920			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1,050	0.00675	1,000	0	105	73.6	124				
Ethene	1,070	0.0146	1,000	0	107	76.3	122				
Ethane	1,050	0.0151	1,000	0	105	76.1	123				

Sample ID: MB-R88358		SampType: MBLK		Units: mg/L		Prep Date: 12/14/2023		RunNo: 88358			
Client ID: MBLKW		Batch ID: R88358				Analysis Date: 12/14/2023		SeqNo: 1844919			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675									
Ethene	ND	0.0146									
Ethane	ND	0.0151									

Sample ID: 2312186-001DREP		SampType: REP		Units: mg/L		Prep Date: 12/14/2023		RunNo: 88358			
Client ID: MW26-20231206		Batch ID: R88358				Analysis Date: 12/14/2023		SeqNo: 1844909			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675						0		30	
Ethene	ND	0.0146						0		30	
Ethane	ND	0.0151						0		30	

Client Name: FB	Work Order Number: 2312186
Logged by: Morgan Wilson	Date Received: 12/7/2023 9:45:00 AM

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
HCL
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:	<input type="text" value="Michael Erdahl"/>	Date:	<input type="text" value="12/7/2023"/>
By Whom:	<input type="text" value="Morgan Wilson"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="No Ferrous Iron amber. will portion & preserve"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	1.3

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To <u>Michael Erdahl</u>		SUBCONTRACTOR <u>Fremont</u>	
Company <u>Friedman and Bruya, Inc.</u>		PROJECT NAME/NO. <u>312091</u>	PO # <u>D-575</u>
Address <u>5500 4th Ave S</u>		REMARKS EIM	
City, State, ZIP <u>Seattle, WA 98108</u>			
Phone # <u>(206) 285-8282 merdahl@friedmanandbruya.com</u>			

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED						Notes
						nitrate	sulfate	alkalinity	ferrous iron	dissolved gases	TOC	
MW26-20231206		12/6/2023	1230	water	5	x	x	x	x	x	x	
		SIGNATURE		PRINT NAME		COMPANY		DATE		TIME		
		<u>Relinquished by: </u>		<u>Michael Erdahl</u>		<u>Friedman & Bruya</u>		<u>12/7/23</u>		<u>0830</u>		
		<u>Relinquished by: </u>		<u>Nathan Koellers</u>		<u>FAI</u>		<u>12/11/23</u>		<u>0945</u>		
		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 19, 2023

Levi Fernandes, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Fernandes:

Included are the results from the testing of material submitted on December 8, 2023 from the SOU_0731-004-08_ 20231208, F&BI 312140 project. There are 29 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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: Linnea Coleman, Tom Cammarata
SOU1219R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 8, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_ 20231208, F&BI 312140 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
312140 -01	MW18-20231207
312140 -02	MW19-20231207
312140 -03	MW21-20231207
312140 -04	MW22-20231207
312140 -05	MW24-20231207
312140 -06	MW25-20231207
312140 -07	MW99-20231207
312140 -08	IW04-20231207
312140 -09	IW06-20231207
312140 -10	IW50-20231207
312140 -11	IW61-20231207

The nitrate, sulfate, alkalinity, ferrous iron, RSK dissolved gases, and total organic carbon tests were sent to Fremont Analytical for analyses. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/08/23

Project: SOU_0731-004-08_20231208, F&BI 312140

Date Extracted: 12/08/23

Date Analyzed: 12/11/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW21-20231207 312140-03	<100	100
MW22-20231207 312140-04	<100	102
Method Blank 03-2528 MB	<100	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/08/23

Project: SOU_0731-004-08_ 20231208, F&BI 312140

Date Extracted: 12/12/23

Date Analyzed: 12/12/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW21-20231207 312140-03	8,500 x	4,400 x	ip
MW22-20231207 312140-04	3,100 x	720 x	ip
Method Blank 03-2830 MB	<50	<250	111

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW18-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-01 x100
Date Analyzed:	12/12/23	Data File:	312140-01 x100.107
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	23,400
Manganese	11,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW19-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-02 x100
Date Analyzed:	12/12/23	Data File:	312140-02 x100.111
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	22,200
Manganese	10,300

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW22-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-04 x100
Date Analyzed:	12/12/23	Data File:	312140-04 x100.112
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	14,600
Manganese	10,700

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW24-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-05 x100
Date Analyzed:	12/12/23	Data File:	312140-05 x100.113
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	12,700
Manganese	22,900

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW25-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-06 x50
Date Analyzed:	12/12/23	Data File:	312140-06 x50.114
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	5,170
Manganese	6,130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW04-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-08 x100
Date Analyzed:	12/12/23	Data File:	312140-08 x100.115
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	16,400
Manganese	6,060

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW50-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-10 x100
Date Analyzed:	12/12/23	Data File:	312140-10 x100.119
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	8,580
Manganese	9,940

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW61-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-11 x100
Date Analyzed:	12/12/23	Data File:	312140-11 x100.120
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	13,400
Manganese	13,100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	I3-973 mb
Date Analyzed:	12/11/23	Data File:	I3-973 mb.090
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW18-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-01
Date Analyzed:	12/11/23	Data File:	121122.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	106	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.3
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW19-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-02
Date Analyzed:	12/11/23	Data File:	121123.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	105	84	115
4-Bromofluorobenzene	106	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.8
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW21-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-03
Date Analyzed:	12/11/23	Data File:	121124.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	105	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.6
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	4.5
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW22-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-04
Date Analyzed:	12/11/23	Data File:	121130.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.6
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	52
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW24-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-05
Date Analyzed:	12/11/23	Data File:	121125.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	103	84	115
4-Bromofluorobenzene	107	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.0
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	1.5
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW25-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-06
Date Analyzed:	12/11/23	Data File:	121126.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.9
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	3.4
Trichloroethene	5.5
Tetrachloroethene	4.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW99-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-07
Date Analyzed:	12/11/23	Data File:	121133.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	108	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.9
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	3.4
Trichloroethene	5.4
Tetrachloroethene	3.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW04-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-08
Date Analyzed:	12/11/23	Data File:	121127.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	106	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW06-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-09
Date Analyzed:	12/11/23	Data File:	121128.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	1.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW50-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-10
Date Analyzed:	12/11/23	Data File:	121129.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	105	84	115
4-Bromofluorobenzene	109	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	5.4
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	22
Trichloroethene	3.1
Tetrachloroethene	7.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW61-20231207	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312140-11
Date Analyzed:	12/11/23	Data File:	121131.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	78	126
Toluene-d8	114	84	115
4-Bromofluorobenzene	85	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.8
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	41
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	03-2805 mb
Date Analyzed:	12/11/23	Data File:	121108.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	105	84	115
4-Bromofluorobenzene	107	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/08/23

Project: SOU_0731-004-08_ 20231208, F&BI 312140

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 312091-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	100	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/08/23

Project: SOU_0731-004-08_ 20231208, F&BI 312140

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	84	84	65-151	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/08/23

Project: SOU_0731-004-08_ 20231208, F&BI 312140

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 312140-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	20,800	680 b	218 b	70-130	103 b
Manganese	ug/L (ppb)	20	8,410	946 b	0 b	70-130	200 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	90	85-115
Manganese	ug/L (ppb)	20	86	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/23

Date Received: 12/08/23

Project: SOU_0731-004-08_ 20231208, F&BI 312140

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 312161-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	106	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	90	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	90	10-211
Trichloroethene	ug/L (ppb)	10	<0.5	97	35-149
Tetrachloroethene	ug/L (ppb)	10	<1	96	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	108	116	64-142	7
trans-1,2-Dichloroethene	ug/L (ppb)	10	91	98	70-130	7
cis-1,2-Dichloroethene	ug/L (ppb)	10	91	97	70-130	6
Trichloroethene	ug/L (ppb)	10	98	99	70-130	1
Tetrachloroethene	ug/L (ppb)	10	97	97	70-130	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported 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.

312140

Send Report To Levi Fernandes, Linnea Coleman, Tom Cammarata

Company SoundEarth Strategies

Address 1011 Southwest Klickitat Way, Suite 212

City, State, ZIP Seattle, WA 98134

SAMPLE CHAIN OF CUSTODY

12/08/23

L3/I2/VWS

Page # 1 of 1

SAMPLERS (signature)			
PROJECT NAME/NO.	Troy Laundry Property	PO #	0731-004-08
REMARKS	*cVOCs = PCE, TCE, Cis/Trans-DCE, and Vinyl Chloride Reporting Limit = 0.2 ug/L		
			EIM Y

TURNAROUND TIME	Standard (2 Weeks)
Rush charges authorized by:	
<input checked="" type="checkbox"/> SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions	

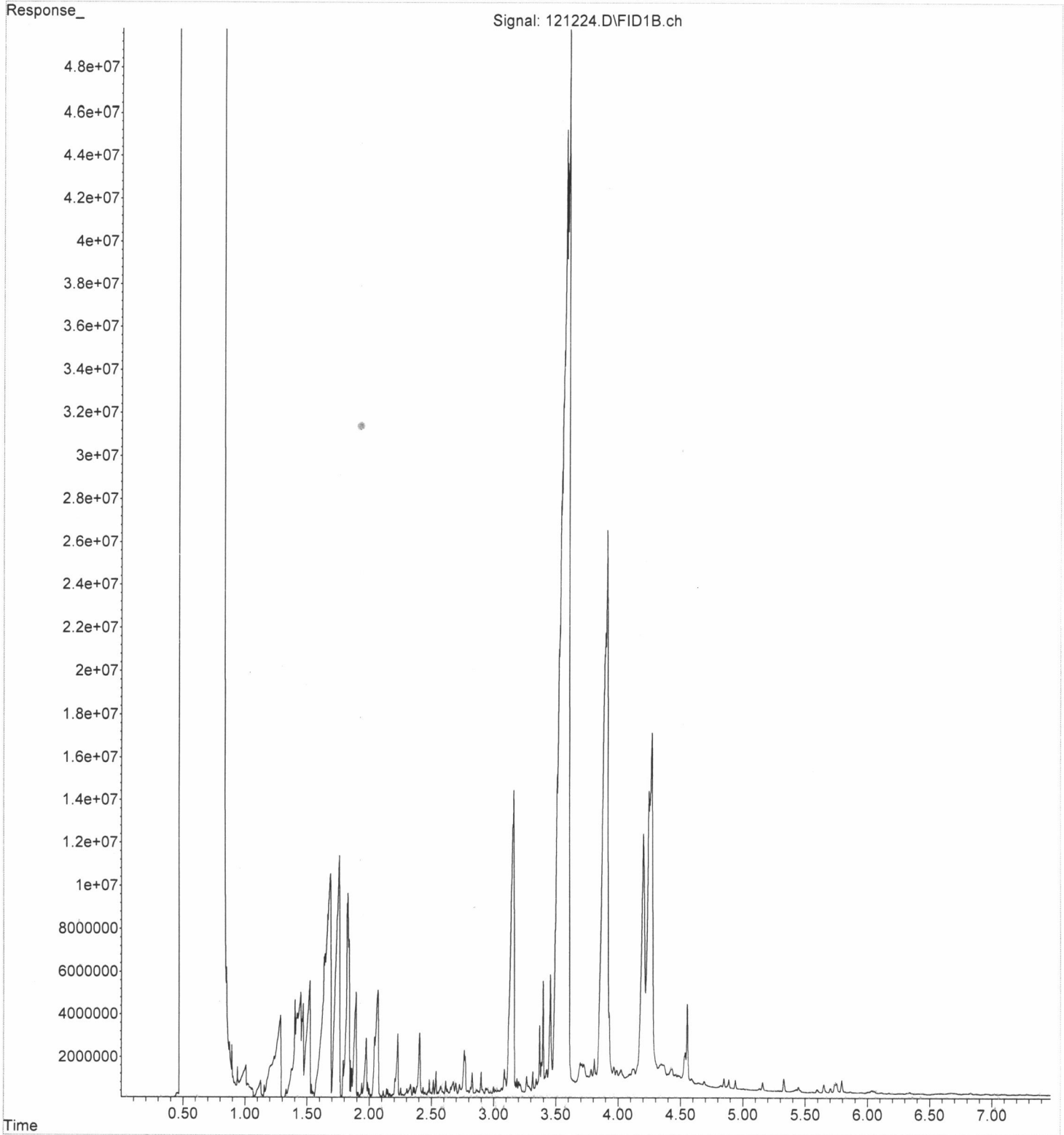
Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs * by EPA 8260C	Methane, Ethane, Ethene by RSK175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes
MW18--20231207	MW18	-	01 A5	12/8/23	1145						X	X	X	X	X	X	
MW19-20231207	MW19	-	04 A1		1150			X			X	X	X	X	X	X	
MW21-20231207	MW21	-	05 1		1515			X			X	X	X	X	X	X	
MW22-20231207	MW22	-	04 A1		1510			X			X	X	X	X	X	X	
MW24-20231207	MW24	-	05 A1		1332						X	X	X	X	X	X	
MW25-20231207	MW25	-	06 1		1330						X	X	X	X	X	X	
MW99-20231207	MW99	-	01 A1		1200						X	X	X	X	X	X	
IW04-20231207	IW04	-	08 A1		1025						X	X	X	X	X	X	
IW06-20231207	IW06	-	09 A1		1012						X	X	X	X	X	X	
IW50-20231207	IW50	-	10 A1		1705						X	X	X	X	X	X	
IW61-20231207	IW61	-	11 1		1707						X	X	X	X	X	X	

Friedman & Bruya, Inc.
 5500 4th Avenue South
 Seattle, WA 98108
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
		Linnea Coleman		SES		12/8/23		1106	
Relinquished by:		ANHPHAN		F&B		12/08/23		1406	
Received by:				Samples received at		at		°C	

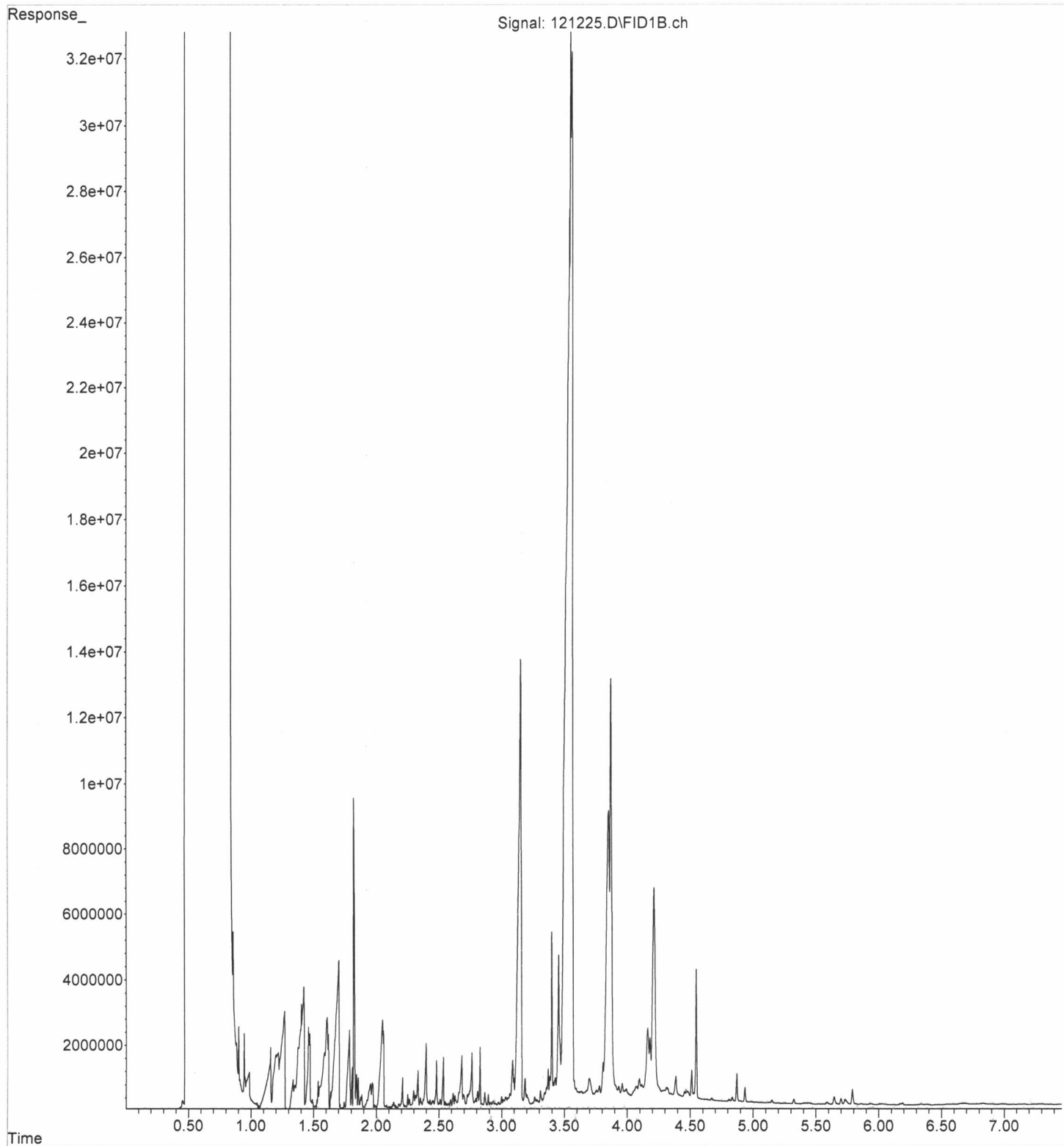
File :P:\Proc_GC14\12-12-23\121224.D
Operator : TL
Acquired : 12 Dec 2023 04:34 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 312140-03
Misc Info :
Vial Number: 17

ERR



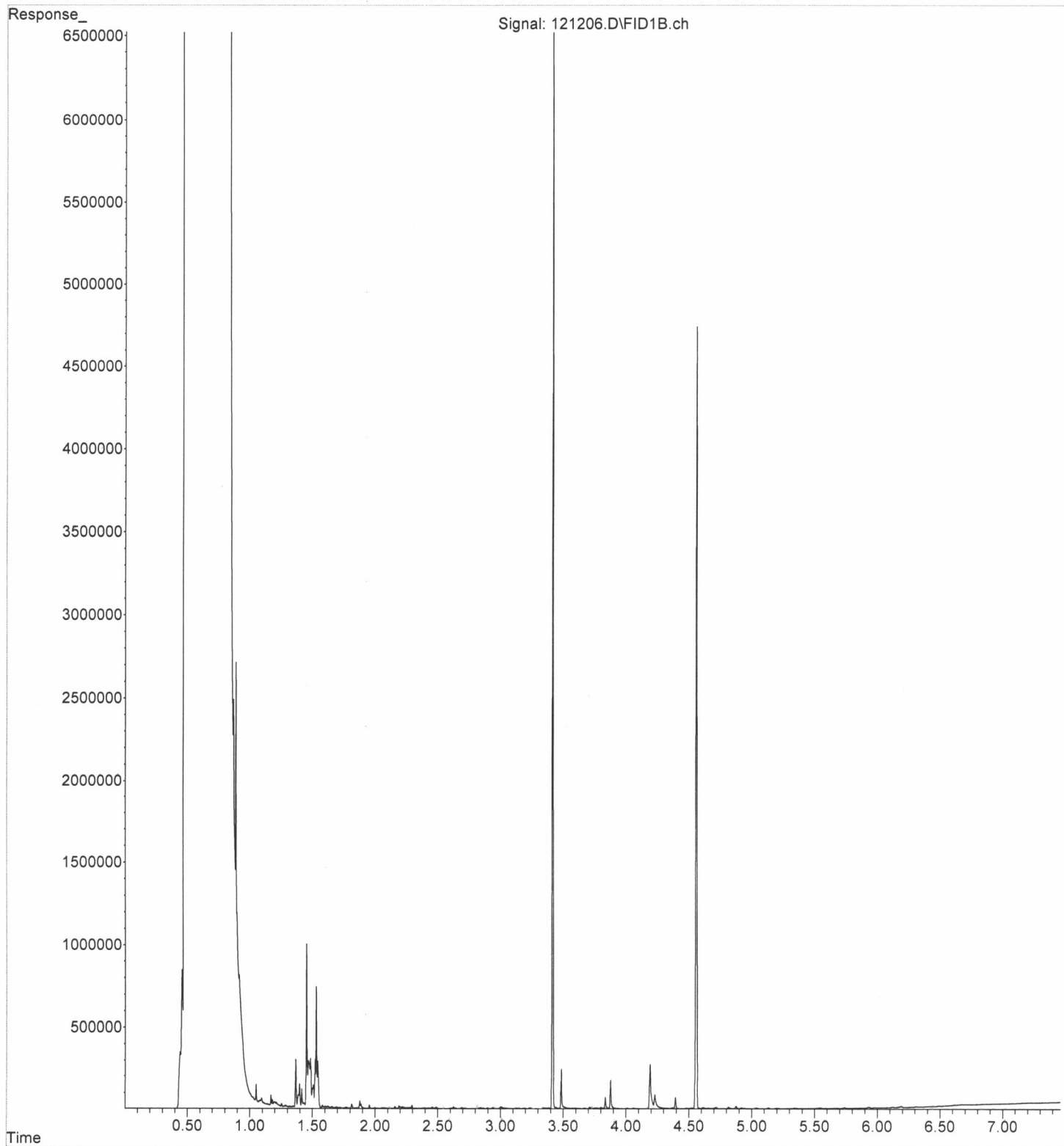
File :P:\Proc_GC14\12-12-23\121225.D
Operator : TL
Acquired : 12 Dec 2023 04:46 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 312140-04
Misc Info :
Vial Number: 18

ERR



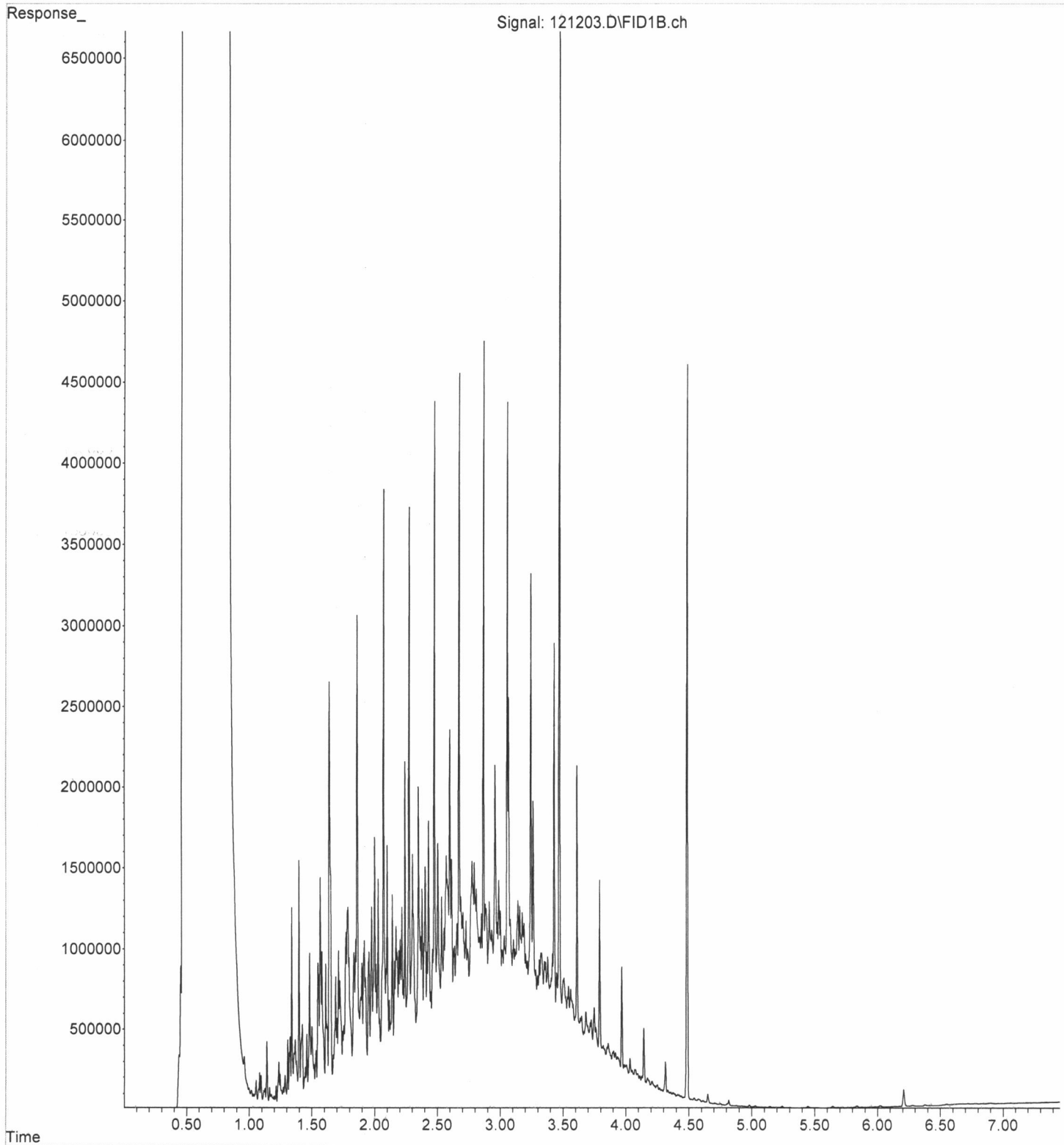
File :P:\Proc_GC14\12-12-23\121206.D
Operator : TL
Acquired : 12 Dec 2023 12:57 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 03-2830 mb
Misc Info :
Vial Number: 8

ERR



File :P:\Proc_GC14\12-12-23\121203.D
Operator : TL
Acquired : 12 Dec 2023 09:11 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 70-26F
Misc Info :
Vial Number: 3

ERR





Fremont

Analytical

An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 312140
Work Order Number: 2312243

December 15, 2023

Attention Michael Erdahl:

Fremont Analytical, Inc. received 9 sample(s) on 12/8/2023 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C

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

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 312140
Work Order: 2312243

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2312243-001	MW18-20231207	12/07/2023 12:00 AM	12/08/2023 12:10 PM
2312243-002	MW19-20231207	12/07/2023 12:00 AM	12/08/2023 12:10 PM
2312243-003	MW21-20231207	12/07/2023 12:00 AM	12/08/2023 12:10 PM
2312243-004	MW22-20231207	12/07/2023 12:00 AM	12/08/2023 12:10 PM
2312243-005	MW24-20231207	12/07/2023 12:00 AM	12/08/2023 12:10 PM
2312243-006	MW25-20231207	12/07/2023 12:00 AM	12/08/2023 12:10 PM
2312243-007	IW04-20231207	12/07/2023 12:00 AM	12/08/2023 12:10 PM
2312243-008	IW50-20231207	12/07/2023 12:00 AM	12/08/2023 12:10 PM
2312243-009	IW61-20231207	12/07/2023 12:00 AM	12/08/2023 12:10 PM

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

CLIENT: Friedman & Bruya

Project: 312140

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: Friedman & Bruya
Project: 312140

Lab ID: 2312243-001

Collection Date: 12/7/2023

Client Sample ID: MW18-20231207

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R88390		Analyst: NR
Methane	8.65	0.338	D	mg/L	50	12/15/2023 3:54:00 PM
Ethene	ND	0.0146		mg/L	1	12/15/2023 3:03:00 PM
Ethane	ND	0.0151		mg/L	1	12/15/2023 3:03:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 42277		Analyst: FG
Nitrate (as N)	ND	0.100	H	mg/L	1	12/11/2023 8:13:00 PM
Sulfate	ND	0.600		mg/L	1	12/11/2023 8:13:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R88266		Analyst: FG
Total Organic Carbon	5.31	0.700		mg/L	1	12/12/2023 12:47:00 PM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R88318		Analyst: ME
Alkalinity, Total (As CaCO ₃)	537	2.50		mg/L	1	12/13/2023 12:18:32 PM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R88249		Analyst: SS
Ferrous Iron	23.3	15.0	DH	mg/L	100	12/8/2023 3:18:22 PM



Analytical Report

Work Order: 2312243
Date Reported: 12/15/2023

CLIENT: Friedman & Bruya
Project: 312140

Lab ID: 2312243-002
Client Sample ID: MW19-20231207

Collection Date: 12/7/2023
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R88390		Analyst: NR
Methane	8.62	0.338	D	mg/L	50	12/15/2023 3:57:00 PM
Ethene	ND	0.0146		mg/L	1	12/15/2023 3:08:00 PM
Ethane	ND	0.0151		mg/L	1	12/15/2023 3:08:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 42277		Analyst: FG
Nitrate (as N)	ND	0.100	H	mg/L	1	12/11/2023 8:36:00 PM
Sulfate	ND	0.600		mg/L	1	12/11/2023 8:36:00 PM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R88318		Analyst: ME
Alkalinity, Total (As CaCO3)	346	2.50		mg/L	1	12/13/2023 12:18:32 PM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R88249		Analyst: SS
Ferrous Iron	21.2	15.0	DH	mg/L	100	12/8/2023 3:18:22 PM

Lab ID: 2312243-003
Client Sample ID: MW21-20231207

Collection Date: 12/7/2023
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R88266		Analyst: FG
Total Organic Carbon	109	0.700		mg/L	1	12/12/2023 2:02:00 PM



Analytical Report

Work Order: 2312243
Date Reported: 12/15/2023

CLIENT: Friedman & Bruya
Project: 312140

Lab ID: 2312243-004

Collection Date: 12/7/2023

Client Sample ID: MW22-20231207

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R88390		Analyst: NR
Methane	3.33	0.338	D	mg/L	50	12/15/2023 4:01:00 PM
Ethene	ND	0.0146		mg/L	1	12/15/2023 3:12:00 PM
Ethane	ND	0.0151		mg/L	1	12/15/2023 3:12:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 42277		Analyst: FG
Nitrate (as N)	ND	0.100	H	mg/L	1	12/11/2023 8:59:00 PM
Sulfate	ND	0.600		mg/L	1	12/11/2023 8:59:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R88266		Analyst: FG
Total Organic Carbon	76.8	0.700		mg/L	1	12/12/2023 2:25:00 PM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R88318		Analyst: ME
Alkalinity, Total (As CaCO ₃)	346	2.50		mg/L	1	12/13/2023 12:18:32 PM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R88249		Analyst: SS
Ferrous Iron	18.1	3.75	DH	mg/L	25	12/8/2023 3:18:22 PM

CLIENT: Friedman & Bruya
Project: 312140

Lab ID: 2312243-005

Collection Date: 12/7/2023

Client Sample ID: MW24-20231207

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R88390		Analyst: NR
Methane	4.34	0.338	D	mg/L	50	12/15/2023 4:09:00 PM
Ethene	ND	0.0146		mg/L	1	12/15/2023 3:19:00 PM
Ethane	ND	0.0151		mg/L	1	12/15/2023 3:19:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 42277		Analyst: FG
Nitrate (as N)	ND	0.100	H	mg/L	1	12/11/2023 9:22:00 PM
Sulfate	1.92	0.600		mg/L	1	12/11/2023 9:22:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R88266		Analyst: FG
Total Organic Carbon	4.24	0.700		mg/L	1	12/12/2023 3:49:00 PM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R88318		Analyst: ME
Alkalinity, Total (As CaCO ₃)	446	2.50		mg/L	1	12/13/2023 12:18:32 PM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R88249		Analyst: SS
Ferrous Iron	12.7	7.50	DH	mg/L	50	12/8/2023 3:18:22 PM



Analytical Report

Work Order: 2312243
Date Reported: 12/15/2023

CLIENT: Friedman & Bruya
Project: 312140

Lab ID: 2312243-006

Collection Date: 12/7/2023

Client Sample ID: MW25-20231207

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R88390	Analyst: NR
Methane	4.57	0.338	D	mg/L	50	12/15/2023 4:11:00 PM
Ethene	ND	0.0146		mg/L	1	12/15/2023 3:24:00 PM
Ethane	ND	0.0151		mg/L	1	12/15/2023 3:24:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 42277	Analyst: FG
Nitrate (as N)	ND	0.100	H	mg/L	1	12/11/2023 9:46:00 PM
Sulfate	32.3	6.00	D	mg/L	10	12/13/2023 3:09:00 AM
<u>Total Organic Carbon by SM 5310C</u>					Batch ID: R88266	Analyst: FG
Total Organic Carbon	1.59	0.700		mg/L	1	12/12/2023 4:23:00 PM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R88318	Analyst: ME
Alkalinity, Total (As CaCO ₃)	205	2.50		mg/L	1	12/13/2023 12:18:32 PM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R88249	Analyst: SS
Ferrous Iron	4.69	3.75	DH	mg/L	25	12/8/2023 3:18:22 PM



Analytical Report

Work Order: 2312243
 Date Reported: 12/15/2023

CLIENT: Friedman & Bruya
Project: 312140

Lab ID: 2312243-007

Collection Date: 12/7/2023

Client Sample ID: IW04-20231207

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 42277		Analyst: FG
Nitrate (as N)	ND	0.100	H	mg/L	1	12/11/2023 10:09:00 PM
Sulfate	ND	0.600		mg/L	1	12/11/2023 10:09:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R88266		Analyst: FG
Total Organic Carbon	21.5	0.700		mg/L	1	12/12/2023 4:54:00 PM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R88344		Analyst: ME
Alkalinity, Total (As CaCO ₃)	260	2.50		mg/L	1	12/14/2023 11:52:31 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R88249		Analyst: SS
Ferrous Iron	18.5	7.50	DH	mg/L	50	12/8/2023 3:18:22 PM



Analytical Report

Work Order: 2312243
Date Reported: 12/15/2023

CLIENT: Friedman & Bruya
Project: 312140

Lab ID: 2312243-008

Collection Date: 12/7/2023

Client Sample ID: IW50-20231207

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R88390	Analyst: NR
Methane	4.93	0.338	D	mg/L	50	12/15/2023 4:14:00 PM
Ethene	ND	0.0146		mg/L	1	12/15/2023 3:28:00 PM
Ethane	ND	0.0151		mg/L	1	12/15/2023 3:28:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 42277	Analyst: FG
Nitrate (as N)	ND	0.100	H	mg/L	1	12/11/2023 10:32:00 PM
Sulfate	10.0	0.600		mg/L	1	12/11/2023 10:32:00 PM
<u>Total Organic Carbon by SM 5310C</u>					Batch ID: R88266	Analyst: FG
Total Organic Carbon	5.03	0.700		mg/L	1	12/12/2023 5:15:00 PM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R88344	Analyst: ME
Alkalinity, Total (As CaCO ₃)	382	2.50		mg/L	1	12/14/2023 11:52:31 AM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R88249	Analyst: SS
Ferrous Iron	9.84	7.50	DH	mg/L	50	12/8/2023 3:18:22 PM



Analytical Report

Work Order: 2312243
Date Reported: 12/15/2023

CLIENT: Friedman & Bruya
Project: 312140

Lab ID: 2312243-009

Collection Date: 12/7/2023

Client Sample ID: IW61-20231207

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R88390	Analyst: NR
Methane	3.91	0.338	D	mg/L	50	12/15/2023 4:18:00 PM
Ethene	ND	0.0146		mg/L	1	12/15/2023 3:35:00 PM
Ethane	ND	0.0151		mg/L	1	12/15/2023 3:35:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 42277	Analyst: FG
Nitrate (as N)	ND	0.100	H	mg/L	1	12/11/2023 10:55:00 PM
Sulfate	ND	0.600		mg/L	1	12/11/2023 10:55:00 PM
<u>Total Organic Carbon by SM 5310C</u>					Batch ID: R88266	Analyst: FG
Total Organic Carbon	81.3	0.700		mg/L	1	12/12/2023 5:49:00 PM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R88344	Analyst: ME
Alkalinity, Total (As CaCO ₃)	540	2.50		mg/L	1	12/14/2023 11:52:31 AM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R88249	Analyst: SS
Ferrous Iron	17.4	7.50	DH	mg/L	50	12/8/2023 3:18:22 PM

Work Order: 2312243
CLIENT: Friedman & Bruya
Project: 312140

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

Sample ID: MB-R88318	SampType: MBLK	Units: mg/L	Prep Date: 12/13/2023	RunNo: 88318							
Client ID: MBLKW	Batch ID: R88318	Analysis Date: 12/13/2023	SeqNo: 1844020								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2.50									

Sample ID: LCS-R88318	SampType: LCS	Units: mg/L	Prep Date: 12/13/2023	RunNo: 88318							
Client ID: LCSW	Batch ID: R88318	Analysis Date: 12/13/2023	SeqNo: 1844030								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	108	2.50	100.0	0	108	86.2	126.2				

Sample ID: 2312186-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 12/13/2023	RunNo: 88318							
Client ID: BATCH	Batch ID: R88318	Analysis Date: 12/13/2023	SeqNo: 1844032								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	65.3	2.50						62.99	3.58	20	

Sample ID: MB-R88344	SampType: MBLK	Units: mg/L	Prep Date: 12/14/2023	RunNo: 88344							
Client ID: MBLKW	Batch ID: R88344	Analysis Date: 12/14/2023	SeqNo: 1844585								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2.50									

Sample ID: LCS-R88344	SampType: LCS	Units: mg/L	Prep Date: 12/14/2023	RunNo: 88344							
Client ID: LCSW	Batch ID: R88344	Analysis Date: 12/14/2023	SeqNo: 1844586								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	108	2.50	100.0	0	108	86.2	126.2				

Work Order: 2312243
CLIENT: Friedman & Bruya
Project: 312140

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

Sample ID: 2312243-007ADUP	SampType: DUP	Units: mg/L	Prep Date: 12/14/2023	RunNo: 88344							
Client ID: IW04-20231207	Batch ID: R88344	Analysis Date: 12/14/2023	SeqNo: 1844588								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	265	2.50						260.2	1.75	20	

Work Order: 2312243
CLIENT: Friedman & Bruya
Project: 312140

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R88249	SampType: MBLK	Units: mg/L			Prep Date: 12/8/2023	RunNo: 88249					
Client ID: MBLKW	Batch ID: R88249				Analysis Date: 12/8/2023	SeqNo: 1842137					
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-R88249	SampType: LCS	Units: mg/L			Prep Date: 12/8/2023	RunNo: 88249					
Client ID: LCSW	Batch ID: R88249				Analysis Date: 12/8/2023	SeqNo: 1842138					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.411	0.150	0.4000	0	103	85	115				

Sample ID: 2312243-001BDUP	SampType: DUP	Units: mg/L			Prep Date: 12/8/2023	RunNo: 88249					
Client ID: MW18-20231207	Batch ID: R88249				Analysis Date: 12/8/2023	SeqNo: 1842140					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	24.2	15.0						23.31	3.82	20	DH

Sample ID: 2312243-001BMS	SampType: MS	Units: mg/L			Prep Date: 12/8/2023	RunNo: 88249					
Client ID: MW18-20231207	Batch ID: R88249				Analysis Date: 12/8/2023	SeqNo: 1842141					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	71.4	15.0	40.00	23.31	120	70	130				DH

Sample ID: 2312243-001BMSD	SampType: MSD	Units: mg/L			Prep Date: 12/8/2023	RunNo: 88249					
Client ID: MW18-20231207	Batch ID: R88249				Analysis Date: 12/8/2023	SeqNo: 1842142					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	72.6	15.0	40.00	23.31	123	70	130	71.36	1.68	30	DH

Work Order: 2312243
CLIENT: Friedman & Bruya
Project: 312140

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: MB-42277	SampType: MBLK	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: MBLKW	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842906							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: 2312051-001BDUP	SampType: DUP	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: BATCH	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842909							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.100						0		20	
Sulfate	11.2	0.600						11.22	0.465	20	

Sample ID: 2312051-001BMS	SampType: MS	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: BATCH	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842934							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.818	0.100	0.7500	0.09800	96.0	80	120				
Sulfate	15.0	0.600	3.750	11.22	102	80	120				

Sample ID: 2312051-001BMSD	SampType: MSD	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: BATCH	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842935							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.824	0.100	0.7500	0.09800	96.8	80	120	0.8180	0.731	20	
Sulfate	15.0	0.600	3.750	11.22	102	80	120	15.04	0.0332	20	

Sample ID: LCS-42277	SampType: LCS	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: LCSW	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842936							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.709	0.100	0.7500	0	94.5	90	110				
Sulfate	3.47	0.600	3.750	0	92.5	90	110				

Work Order: 2312243
CLIENT: Friedman & Bruya
Project: 312140

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: LCS-42277	SampType: LCS	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: LCSW	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1842936							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2312243-009ADUP	SampType: DUP	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: IW61-20231207	Batch ID: 42277		Analysis Date: 12/11/2023	SeqNo: 1843058							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100						0		20	H
Sulfate	ND	0.600						0		20	

Sample ID: 2312243-009AMS	SampType: MS	Units: mg/L	Prep Date: 12/8/2023	RunNo: 88283							
Client ID: IW61-20231207	Batch ID: 42277		Analysis Date: 12/12/2023	SeqNo: 1843061							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.718	0.100	0.7500	0.07600	85.6	80	120				H
Sulfate	3.32	0.600	3.750	0.1680	84.0	80	120				

Sample ID: LCS-42311	SampType: LCS	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88315							
Client ID: LCSW	Batch ID: 42311		Analysis Date: 12/12/2023	SeqNo: 1843928							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.47	0.600	3.750	0	92.6	90	110				

Sample ID: MB-42311	SampType: MBLK	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88315							
Client ID: MBLKW	Batch ID: 42311		Analysis Date: 12/12/2023	SeqNo: 1843930							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.600									

Work Order: 2312243
CLIENT: Friedman & Bruya
Project: 312140

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2312243-006ADUP	SampType: DUP	Units: mg/L			Prep Date: 12/12/2023	RunNo: 88315					
Client ID: MW25-20231207	Batch ID: 42311				Analysis Date: 12/13/2023	SeqNo: 1843943					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	31.3	6.00						32.28	3.15	20	D

Sample ID: 2312243-006AMS	SampType: MS	Units: mg/L			Prep Date: 12/12/2023	RunNo: 88315					
Client ID: MW25-20231207	Batch ID: 42311				Analysis Date: 12/13/2023	SeqNo: 1843944					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	67.2	6.00	37.50	32.28	93.1	80	120				D

Sample ID: 2312243-006AMSD	SampType: MSD	Units: mg/L			Prep Date: 12/12/2023	RunNo: 88315					
Client ID: MW25-20231207	Batch ID: 42311				Analysis Date: 12/13/2023	SeqNo: 1843945					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	68.5	6.00	37.50	32.28	96.5	80	120	67.21	1.86	20	D

Work Order: 2312243
CLIENT: Friedman & Bruya
Project: 312140

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: MB-R88266	SampType: MBLK	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: MBLKW	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843979								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.700									

Sample ID: LCS-R88266	SampType: LCS	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: LCSW	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843980								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.06	0.700	5.000	0	101	90	116				

Sample ID: 2312173-007DDUP	SampType: DUP	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: BATCH	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843982								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.74	0.700						5.725	0.279	20	

Sample ID: 2312173-007DMS	SampType: MS	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: BATCH	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843983								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	10.5	0.700	5.000	5.725	94.6	41.1	150				

Sample ID: 2312173-007DMSD	SampType: MSD	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: BATCH	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843984								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	10.4	0.700	5.000	5.725	94.2	41.1	150	10.45	0.192	30	

Work Order: 2312243
CLIENT: Friedman & Bruya
Project: 312140

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: 2312243-001DDUP	SampType: DUP	Units: mg/L			Prep Date: 12/12/2023	RunNo: 88266					
Client ID: MW18-20231207	Batch ID: R88266				Analysis Date: 12/12/2023	SeqNo: 1843956					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.30	0.700						5.314	0.339	20	

Sample ID: 2312243-001DMS	SampType: MS	Units: mg/L			Prep Date: 12/12/2023	RunNo: 88266					
Client ID: MW18-20231207	Batch ID: R88266				Analysis Date: 12/12/2023	SeqNo: 1843957					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	10.2	0.700	5.000	5.314	98.6	41.1	150				

Work Order: 2312243
CLIENT: Friedman & Bruya
Project: 312140

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: LCS-R88390	SampType: LCS	Units: ppmv	Prep Date: 12/15/2023	RunNo: 88390							
Client ID: LCSW	Batch ID: R88390		Analysis Date: 12/15/2023	SeqNo: 1845771							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	1,030	0.00675	1,000	0	103	73.6	124				
Ethene	1,060	0.0146	1,000	0	106	76.3	122				
Ethane	1,020	0.0151	1,000	0	102	76.1	123				

Sample ID: MB-R88390	SampType: MBLK	Units: mg/L	Prep Date: 12/15/2023	RunNo: 88390							
Client ID: MBLKW	Batch ID: R88390		Analysis Date: 12/15/2023	SeqNo: 1845770							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	ND	0.00675									
Ethene	ND	0.0146									
Ethane	ND	0.0151									

Sample ID: 2312243-001CREP	SampType: REP	Units: mg/L	Prep Date: 12/15/2023	RunNo: 88390							
Client ID: MW18-20231207	Batch ID: R88390		Analysis Date: 12/15/2023	SeqNo: 1845753							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	9.41	0.00675						9.191	2.31	30	
Ethene	ND	0.0146						0		30	
Ethane	ND	0.0151						0		30	

Sample ID: 2312243-004CREP	SampType: REP	Units: mg/L	Prep Date: 12/15/2023	RunNo: 88390							
Client ID: MW22-20231207	Batch ID: R88390		Analysis Date: 12/15/2023	SeqNo: 1845758							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	3.08	0.338						3.330	7.73	30	D
Ethene	ND	0.732						0		30	D
Ethane	ND	0.754						0		30	D

Client Name: FB	Work Order Number: 2312243
Logged by: Morgan Wilson	Date Received: 12/8/2023 12:10:00 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	2.0

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 5500 4th Ave S
 City, State, ZIP Seattle, WA 98108
 Phone # (206) 285-8282 merdahl@friedmanandbruya.com

SUBCONTRACTER Fremont	
PROJECT NAME/NO. 312140	PO # D-579
REMARKS EIM	

TURNOAROUND TIME <input checked="" type="checkbox"/> Standard TAT RUSH <u>2372 243</u> Rush charges authorized by:	SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions
---	---

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED						Notes
						nitrate	sulfate	alkalinity	ferrous iron	dissolved gases	TOC	
MW18-20231207		12/7/2023		water		X	X	X	X	X		
MW19-20231207		12/7/2023		water		X	X	X	X			
MW21-20231207		12/7/2023		water						X		
MW22-20231207		12/7/2023		water		X	X	X	X	X		
MW24-20231207		12/7/2023		water		X	X	X	X	X		
MW25-20231207		12/7/2023		water		X	X	X	X	X		
IW04-20231207		12/7/2023		water		X	X	X	X	X		No dissolved gases on
IW50-20231207		12/7/2023		water		X	X	X	X	X		
IW61-20231207		12/7/2023		water		X	X	X	X	X		

Eroy
nc

Relinquished by: Received by: <u>Mark R73</u> Relinquished by: _____ Received by: _____	SIGNATURE PRINT NAME Michael Erdahl COMPANY Friedman & Bruya DATE 12/8/23 TIME 11:5 AM
Relinquished by: _____ Received by: _____	SIGNATURE PRINT NAME Michael Erdahl COMPANY Friedman & Bruya DATE 12/8 TIME 12:10

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 20, 2023

Levi Fernandes, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Fernandes:

Included are the results from the testing of material submitted on December 8, 2023 from the SOU_0731-004-08_ 20231208, F&BI 312158 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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: Linnea Coleman, Tom Cammarata
SOU1220R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 8, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_20231208, F&BI 312158 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
312158 -01	MW07-20231208
312158 -02	MW04-20231208

The samples sent to Fremont Analytical for nitrate, sulfate, alkalinity, ferrous iron, RSK dissolved gases, and total organic carbon analyses. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW07-20231208	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312158-01
Date Analyzed:	12/11/23	Data File:	312158-01.164
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	280
Manganese	10.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW04-20231208	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	312158-02
Date Analyzed:	12/11/23	Data File:	312158-02.165
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	88.8
Manganese	1.68

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/11/23	Lab ID:	I3-973 mb
Date Analyzed:	12/11/23	Data File:	I3-973 mb.090
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW07-20231208	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/12/23	Lab ID:	312158-01
Date Analyzed:	12/12/23	Data File:	121222.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	4.8
Tetrachloroethene	2.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW04-20231208	Client:	SoundEarth Strategies
Date Received:	12/08/23	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/12/23	Lab ID:	312158-02
Date Analyzed:	12/12/23	Data File:	121223.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	107	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	9.4
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20231208
Date Extracted:	12/12/23	Lab ID:	03-2810 mb
Date Analyzed:	12/12/23	Data File:	121208.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/20/23

Date Received: 12/08/23

Project: SOU_0731-004-08_ 20231208, F&BI 312158

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 312140-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	20,800	680 b	218 b	70-130	103 b
Manganese	ug/L (ppb)	20	8,410	946 b	0 b	70-130	200 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	90	85-115
Manganese	ug/L (ppb)	20	86	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/20/23

Date Received: 12/08/23

Project: SOU_0731-004-08_ 20231208, F&BI 312158

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 312153-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	120	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	98	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	96	10-211
Trichloroethene	ug/L (ppb)	10	<0.5	102	35-149
Tetrachloroethene	ug/L (ppb)	10	<1	99	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent		Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	111	110	64-142	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	92	91	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	92	90	70-130	2
Trichloroethene	ug/L (ppb)	10	99	98	70-130	1
Tetrachloroethene	ug/L (ppb)	10	99	96	70-130	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported 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.

312158

SAMPLE CHAIN OF CUSTODY

12/8/23

25/vw3

Page # 1 of 1

Send Report To Levi Fernandes, Linnea Coleman, Tom Cammarata

Company SoundEarth Strategies

Address 1011 Southwest Klickitat Way, Suite 212

City, State, ZIP Seattle, WA 98134

SAMPLERS (signature)

Levi Fernandes

PROJECT NAME/NO.

Troy Laundry Property

PO #

0731-004-08

TURNAROUND TIME

Standard (2 Weeks)

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days
Return samples
Will call with instructions

REMARKS
*cVOCs = PCE, TCE, Cis/Trans-DCE, and Vinyl Chloride Reporting Limit = 0.2 ug/L

REMARKS
EIM Y

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs * by EPA 8260C	Methane, Ethane, Ethene by RSK175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes
MWD1-20231208	MWD1	---	014	12/08/23	1215	GM	10				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
MWD1-20231208	MWD1	---	024	12/08/23	1230	GM	10				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>BD8</i>																	
<i>12/08/23</i>																	

Friedman & Bryva, Inc.

5500 4th Avenue South

Seattle, WA 98108

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

Relinquished by: *Levi Fernandes*

Received by: *Wesley Band*

Relinquished by:

Received by:

PRINT NAME

Levi Fernandes

Wesley Band

COMPANY

SES

RB1

DATE

12/08/23

12/08/23

TIME

1603

1603

samples received at 3 °C



Fremont

Analytical

An Alliance Technical Group Company

3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 312158

Work Order Number: 2312263

December 19, 2023

Attention Michael Erdahl:

Fremont Analytical, Inc. received 2 sample(s) on 12/11/2023 for the analyses presented in the following report.

Dissolved Gases by RSK-175

Ferrous Iron by SM3500-Fe B

Ion Chromatography by EPA Method 300.0

Total Alkalinity by SM 2320B

Total Organic Carbon by SM 5310C

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

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing

ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing

Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 312158
Work Order: 2312263

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2312263-001	MW07-20231208	12/08/2023 12:15 PM	12/11/2023 11:32 AM
2312263-002	MW04-20231208	12/08/2023 12:30 PM	12/11/2023 11:32 AM

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

CLIENT: Friedman & Bruya

Project: 312158

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: 2312263
Date Reported: 12/19/2023

CLIENT: Friedman & Bruya
Project: 312158

Lab ID: 2312263-001 **Collection Date:** 12/8/2023 12:15:00 PM
Client Sample ID: MW07-20231208 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>					Batch ID: R88421	Analyst: AM
Methane	ND	0.00675		mg/L	1	12/18/2023 1:28:00 PM
Ethene	ND	0.0146		mg/L	1	12/18/2023 1:28:00 PM
Ethane	ND	0.0151		mg/L	1	12/18/2023 1:28:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>					Batch ID: 42387	Analyst: FG
Nitrate (as N)	27.9	1.00	DH	mg/L	10	12/18/2023 4:53:00 PM
Sulfate	32.6	6.00	D	mg/L	10	12/18/2023 4:53:00 PM
<u>Total Organic Carbon by SM 5310C</u>					Batch ID: R88266	Analyst: FG
Total Organic Carbon	1.70	0.700		mg/L	1	12/12/2023 6:19:00 PM
<u>Total Alkalinity by SM 2320B</u>					Batch ID: R88344	Analyst: ME
Alkalinity, Total (As CaCO ₃)	25.2	2.50		mg/L	1	12/14/2023 11:52:31 AM
<u>Ferrous Iron by SM3500-Fe B</u>					Batch ID: R88403	Analyst: NR
Ferrous Iron	ND	0.150	H	mg/L	1	12/11/2023 3:00:03 PM



Analytical Report

Work Order: 2312263
Date Reported: 12/19/2023

CLIENT: Friedman & Bruya
Project: 312158

Lab ID: 2312263-002 **Collection Date:** 12/8/2023 12:30:00 PM
Client Sample ID: MW04-20231208 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R88421		Analyst: AM
Methane	ND	0.00675		mg/L	1	12/18/2023 1:33:00 PM
Ethene	ND	0.0146		mg/L	1	12/18/2023 1:33:00 PM
Ethane	ND	0.0151		mg/L	1	12/18/2023 1:33:00 PM
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 42387		Analyst: FG
Nitrate (as N)	17.2	1.00	DH	mg/L	10	12/18/2023 5:16:00 PM
Sulfate	42.8	6.00	D	mg/L	10	12/18/2023 5:16:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R88266		Analyst: FG
Total Organic Carbon	ND	0.700		mg/L	1	12/12/2023 6:50:00 PM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R88344		Analyst: ME
Alkalinity, Total (As CaCO3)	66.6	2.50		mg/L	1	12/14/2023 11:52:31 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R88403		Analyst: NR
Ferrous Iron	ND	0.150	H	mg/L	1	12/11/2023 3:00:03 PM

Work Order: 2312263
CLIENT: Friedman & Bruya
Project: 312158

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

Sample ID: MB-R88344	SampType: MBLK	Units: mg/L	Prep Date: 12/14/2023	RunNo: 88344							
Client ID: MBLKW	Batch ID: R88344	Analysis Date: 12/14/2023	SeqNo: 1844585								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2.50									

Sample ID: LCS-R88344	SampType: LCS	Units: mg/L	Prep Date: 12/14/2023	RunNo: 88344							
Client ID: LCSW	Batch ID: R88344	Analysis Date: 12/14/2023	SeqNo: 1844586								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	108	2.50	100.0	0	108	86.2	126.2				

Sample ID: 2312243-007ADUP	SampType: DUP	Units: mg/L	Prep Date: 12/14/2023	RunNo: 88344							
Client ID: BATCH	Batch ID: R88344	Analysis Date: 12/14/2023	SeqNo: 1844588								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	265	2.50						260.2	1.75	20	

Work Order: 2312263
CLIENT: Friedman & Bruya
Project: 312158

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: LCS-R88403	SampType: LCS	Units: mg/L	Prep Date: 12/11/2023	RunNo: 88403							
Client ID: LCSW	Batch ID: R88403		Analysis Date: 12/11/2023	SeqNo: 1846007							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.463	0.150	0.4000	0	116	85	115				S

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: MB-R88403	SampType: MBLK	Units: mg/L	Prep Date: 12/11/2023	RunNo: 88403							
Client ID: MBLKW	Batch ID: R88403		Analysis Date: 12/11/2023	SeqNo: 1846008							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.150									

Sample ID: 2312263-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 12/11/2023	RunNo: 88403							
Client ID: MW07-20231208	Batch ID: R88403		Analysis Date: 12/11/2023	SeqNo: 1846010							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.150						0		20	H

Sample ID: 2312263-001AMS	SampType: MS	Units: mg/L	Prep Date: 12/11/2023	RunNo: 88403							
Client ID: MW07-20231208	Batch ID: R88403		Analysis Date: 12/11/2023	SeqNo: 1846011							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.460	0.150	0.4000	0	115	70	130				H

Sample ID: 2312263-001AMSD	SampType: MSD	Units: mg/L	Prep Date: 12/11/2023	RunNo: 88403							
Client ID: MW07-20231208	Batch ID: R88403		Analysis Date: 12/11/2023	SeqNo: 1846012							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.451	0.150	0.4000	0	113	70	130	0.4598	1.99	30	H

Work Order: 2312263
CLIENT: Friedman & Bruya
Project: 312158

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: MB-42387	SampType: MBLK	Units: mg/L	Prep Date: 12/18/2023	RunNo: 88435							
Client ID: MBLKW	Batch ID: 42387		Analysis Date: 12/18/2023	SeqNo: 1846801							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.100
Sulfate	ND	0.600

Sample ID: LCS-42387	SampType: LCS	Units: mg/L	Prep Date: 12/18/2023	RunNo: 88435							
Client ID: LCSW	Batch ID: 42387		Analysis Date: 12/18/2023	SeqNo: 1846802							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.689	0.100	0.7500	0	91.9	90	110
Sulfate	3.40	0.600	3.750	0	90.6	90	110

Sample ID: 2312273-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 12/18/2023	RunNo: 88435							
Client ID: BATCH	Batch ID: 42387		Analysis Date: 12/18/2023	SeqNo: 1846807							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	5.18	1.00						5.250	1.34	20	DH
Sulfate	22.2	6.00						22.17	0.270	20	D

Sample ID: 2312273-001AMS	SampType: MS	Units: mg/L	Prep Date: 12/18/2023	RunNo: 88435							
Client ID: BATCH	Batch ID: 42387		Analysis Date: 12/18/2023	SeqNo: 1846808							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	12.3	1.00	7.500	5.250	94.0	80	120				DH
Sulfate	57.1	6.00	37.50	22.17	93.1	80	120				D

Sample ID: 2312273-001AMSD	SampType: MSD	Units: mg/L	Prep Date: 12/18/2023	RunNo: 88435							
Client ID: BATCH	Batch ID: 42387		Analysis Date: 12/18/2023	SeqNo: 1846809							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	12.2	1.00	7.500	5.250	92.5	80	120	12.30	0.898	20	DH
Sulfate	56.6	6.00	37.50	22.17	91.9	80	120	57.08	0.756	20	D

Work Order: 2312263
CLIENT: Friedman & Bruya
Project: 312158

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2312273-001AMSD	SampType: MSD	Units: mg/L	Prep Date: 12/18/2023	RunNo: 88435							
Client ID: BATCH	Batch ID: 42387	Analysis Date: 12/18/2023	SeqNo: 1846809								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Work Order: 2312263
CLIENT: Friedman & Bruya
Project: 312158

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: MB-R88266	SampType: MBLK	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: MBLKW	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843979								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Organic Carbon ND 0.700

Sample ID: LCS-R88266	SampType: LCS	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: LCSW	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843980								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Organic Carbon 5.06 0.700 5.000 0 101 90 116

Sample ID: 2312173-007DDUP	SampType: DUP	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: BATCH	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843982								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Organic Carbon 5.74 0.700 5.725 0.279 20

Sample ID: 2312173-007DMS	SampType: MS	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: BATCH	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843983								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Organic Carbon 10.5 0.700 5.000 5.725 94.6 41.1 150

Sample ID: 2312173-007DMSD	SampType: MSD	Units: mg/L	Prep Date: 12/12/2023	RunNo: 88266							
Client ID: BATCH	Batch ID: R88266	Analysis Date: 12/12/2023	SeqNo: 1843984								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Organic Carbon 10.4 0.700 5.000 5.725 94.2 41.1 150 10.45 0.192 30

Work Order: 2312263
CLIENT: Friedman & Bruya
Project: 312158

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: 2312243-001DDUP	SampType: DUP	Units: mg/L			Prep Date: 12/12/2023	RunNo: 88266					
Client ID: BATCH	Batch ID: R88266				Analysis Date: 12/12/2023	SeqNo: 1843956					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.30	0.700						5.314	0.339	20	

Sample ID: 2312243-001DMS	SampType: MS	Units: mg/L			Prep Date: 12/12/2023	RunNo: 88266					
Client ID: BATCH	Batch ID: R88266				Analysis Date: 12/12/2023	SeqNo: 1843957					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	10.2	0.700	5.000	5.314	98.6	41.1	150				

Work Order: 2312263
CLIENT: Friedman & Bruya
Project: 312158

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: LCS-R88421		SampType: LCS		Units: ppmv		Prep Date: 12/18/2023		RunNo: 88421			
Client ID: LCSW		Batch ID: R88421				Analysis Date: 12/18/2023		SeqNo: 1846469			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1,000	0.00675	1,000	0	100	73.6	124				
Ethene	1,020	0.0146	1,000	0	102	76.3	122				
Ethane	1,000	0.0151	1,000	0	100	76.1	123				

Sample ID: MB-R88421		SampType: MBLK		Units: mg/L		Prep Date: 12/18/2023		RunNo: 88421			
Client ID: MBLKW		Batch ID: R88421				Analysis Date: 12/18/2023		SeqNo: 1846468			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675									
Ethene	ND	0.0146									
Ethane	ND	0.0151									

Sample ID: 2312263-001DREP		SampType: REP		Units: mg/L		Prep Date: 12/18/2023		RunNo: 88421			
Client ID: MW07-20231208		Batch ID: R88421				Analysis Date: 12/18/2023		SeqNo: 1846438			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675						0		30	
Ethene	ND	0.0146						0		30	
Ethane	ND	0.0151						0		30	

Sample ID: 2312338-004HREP		SampType: REP		Units: mg/L		Prep Date: 12/18/2023		RunNo: 88421			
Client ID: BATCH		Batch ID: R88421				Analysis Date: 12/18/2023		SeqNo: 1846461			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	15.4	0.00675						7.473	69.3	30	E
Ethene	ND	0.0146						0.01791	200	30	
Ethane	0.891	0.0151						0.4151	72.9	30	

Client Name: FB	Work Order Number: 2312263
Logged by: Morgan Wilson	Date Received: 12/11/2023 11:32:00 AM

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:	<input type="text" value="Michael Erdahl"/>	Date:	<input type="text" value="12/11/2023"/>
By Whom:	<input type="text" value="Morgan Wilson"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Sample Out of Hold - Nitrate"/>		
Client Instructions:	<input type="text" value="Okay to Proceed"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	4.1

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2312263



Page # 1 of 1

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 5500 4th Ave S
 City, State, ZIP Seattle, WA 98108
 Phone # (206) 285-8282 merdahl@friedmanandbruya.com

SUBCONTRACTOR Fremont		PO #
PROJECT NAME/NO. 312158	D-585	
REMARKS EIM		

TURNAROUND TIME <input checked="" type="checkbox"/> Standard TAT RUSH _____ Rush charges authorized by: _____	SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions
--	---

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED						Notes
						ferrous iron	sulfate	nitrate	alkalinity	dissolved gases	TOC	
MMW07-20231208		12/8/2023		1215 water	4	X	X	X	X	X	X	
MMW04-20231208		12/8/2023		1230 water	4	X	X	X	X	X	X	

SIGNATURE		PRINT NAME		COMPANY	DATE	TIME
Received by: 		Michael Erdahl		Friedman & Bruya	12/11/25	06:17 AM
Relinquished by: 		Michael Erdahl		Friedman & Bruya	12/11/25	11:32
Received by: _____						

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

January 10, 2024

Levi Fernandes, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Fernandes:

Included are the results from the testing of material submitted on January 5, 2024 from the SOU_0731-004-08_ 20240105, F&BI 401060 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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: Linnea Coleman, Tom Cammarata
SOU0110R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 5, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_20240105, F&BI 401060 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
401060 -01	MW29R-20240105
401060 -02	MW35-20240105

The 8260D calibration standard exceeded the acceptance criteria for vinyl chloride in the associated with the method blank. The compound was not detected, therefore this did not represent an out of control condition.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW29R-20240105	Client:	SoundEarth Strategies
Date Received:	01/05/24	Project:	SOU_0731-004-08_20240105
Date Extracted:	01/08/24	Lab ID:	401060-01
Date Analyzed:	01/08/24	Data File:	010818.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	2.3
Trichloroethene	2.2
Tetrachloroethene	8.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW35-20240105	Client:	SoundEarth Strategies
Date Received:	01/05/24	Project:	SOU_0731-004-08_20240105
Date Extracted:	01/08/24	Lab ID:	401060-02
Date Analyzed:	01/08/24	Data File:	010819.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	1.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20240105
Date Extracted:	01/08/24	Lab ID:	04-0057 mb
Date Analyzed:	01/08/24	Data File:	010808.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2 k
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/10/24

Date Received: 01/05/24

Project: SOU_0731-004-08_ 20240105, F&BI 401060

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 401060-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	91	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	79	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	2.3	77 b	10-211
Trichloroethene	ug/L (ppb)	10	2.2	75 b	35-149
Tetrachloroethene	ug/L (ppb)	10	8.5	69 b	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	121	112	64-142	8
trans-1,2-Dichloroethene	ug/L (ppb)	10	106	98	70-130	8
cis-1,2-Dichloroethene	ug/L (ppb)	10	104	97	70-130	7
Trichloroethene	ug/L (ppb)	10	101	98	70-130	3
Tetrachloroethene	ug/L (ppb)	10	101	98	70-130	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported 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.

401060

SAMPLE CHAIN OF CUSTODY

01/05/24 VW1

Send Report To Levi Fernandes, Linnea Coleman, Tom Cammarata

Company SoundEarth Strategies

Address 1011 Southwest Klickitat Way, Suite 212

City, State, ZIP Seattle, WA 98134

SAMPLERS (signature) 

Page # 1 of 1

PROJECT NAME/NO. Troy Laundry Property PO # 0731-004-08

TURNAROUND TIME
Standard (2 Weeks)



REMARKS
*cVOCs = PCE, TCE, Cis/Trans-DCE, and Vinyl Chloride Reporting Limit = 0.2 ug/L

SAMPLE DISPOSAL
⊗ Dispose after 30 days
Return samples
Will call with instructions

GRPH by NWTPH-Gx
BTEX by EPA 8021B
DRPH/ORPH by NWTPH-Dx
cVOCs * by EPA 8260C
Methane, Ethane, Ethene by RSK175
Sulfate, Nitrate, Alkalinity by SM1845/SM2320B
Total Fe and Mn by EPA 200.8
Fe 2+ by SM 3500
TOC By EPA 415.1

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs * by EPA 8260C	Methane, Ethane, Ethene by RSK175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes	
MW29R-2024C105	MW29R	-	01AC19/24	01/15/24	1210	1120	3				X							
MW35-20240105	MW35	-	02V 15/24	1035	1025 per LC	" "	" "											
Samples received at <u>11</u> °C																		

Friedman & Bruya, Inc.
5500 4th Avenue South
Seattle, WA 98108
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME			
Relinquished by:		Linnea Coleman	SES	1/5/24	1:36	Received by:		ANN PHAN	ESB	01/05/24	13:36

ATTACHMENT B
STATISTICAL TREND ANALYSES AND PERFORMANCE CHARTS

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.112/25/2023 10:30:01 AM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	Vinyl Chloride											
10												
11	General Statistics											
12	Number of Events Reported (m)			22								
13	Number of Missing Events			0								
14	Number of Reported Events Used			22								
15	Number Values Reported (n)			22								
16	Minimum			0.1								
17	Maximum			1.6								
18	Mean			0.445								
19	Geometric Mean			0.302								
20	Median			0.31								
21	Standard Deviation			0.399								
22	Coefficient of Variation			0.897								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			49								
26	Tabulated p-value			0.089								
27	Standard Deviation of S			34.82								
28	Standardized Value of S			1.379								
29	Approximate p-value			0.084								
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C
1	Time Since	Vinyl Chloride	
2	0	0.1	
3	306	0.1	
4	433	0.1	
5	532	0.1	
6	629	0.1	
7	755	0.21	
8	869	0.22	
9	953	0.54	
10	1037	0.65	
11	1149	0.68	
12	1233	0.1	
13	1317	1.6	
14	1499	1	
15	1674	1.1	
16	1877	0.77	
17	2045	0.64	
18	2240	0.46	
19	2415	0.34	
20	2589	0.34	
21	2778	0.28	
22	2967	0.26	
23	3135	0.1	

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.14/5/2024 3:22:24 PM								
4	From File			PROUCL_IW50_rawadata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	cis12DCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			23								
13	Number of Missing Events			0								
14	Number of Reported Events Used			23								
15	Number Values Reported (n)			23								
16	Minimum			0.5								
17	Maximum			140								
18	Mean			32.27								
19	Geometric Mean			15.72								
20	Median			22								
21	Standard Deviation			36.08								
22	Coefficient of Variation			1.118								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-98								
26	Critical Value (0.15)			-1.036								
27	Standard Deviation of S			37.85								
28	Standardized Value of S			-2.563								
29	Approximate p-value			0.00519								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.14/5/2024 3:24:34 PM								
4	From File			PROUCL_IW50_rawadata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	PCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			23								
13	Number of Missing Events			0								
14	Number of Reported Events Used			23								
15	Number Values Reported (n)			23								
16	Minimum			0.5								
17	Maximum			13								
18	Mean			2.739								
19	Geometric Mean			1.506								
20	Median			1.6								
21	Standard Deviation			3.054								
22	Coefficient of Variation			1.115								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			31								
26	Critical Value (0.15)			1.036								
27	Standard Deviation of S			35.57								
28	Standardized Value of S			0.843								
29	Approximate p-value			0.199								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.14/5/2024 3:23:30 PM								
4	From File			PROUCL_IW50_rawadata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	VC											
10												
11	General Statistics											
12	Number of Events Reported (m)			23								
13	Number of Missing Events			0								
14	Number of Reported Events Used			23								
15	Number Values Reported (n)			23								
16	Minimum			0.1								
17	Maximum			7.4								
18	Mean			2.81								
19	Geometric Mean			1.802								
20	Median			2.4								
21	Standard Deviation			2.243								
22	Coefficient of Variation			0.798								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			75								
26	Critical Value (0.15)			1.036								
27	Standard Deviation of S			37.84								
28	Standardized Value of S			1.956								
29	Approximate p-value			0.0252								
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C	D
1	Time Since	VC	cis12DCE	PCE
2	0	0.1	44	4.1
3	127	1.8	140	0.5
4	219	1.9	110	0.5
5	347	2.5	38	3.7
6	445	1	23	3.7
7	542	0.74	34	13
8	669	0.95	81	0.5
9	783	2.6	26	0.5
10	866	2.2	15	0.5
11	950	3.6	8	0.5
12	1062	2.5	4.5	0.5
13	1146	2.9	5.1	0.5
14	1230	4.5	15	1.6
15	1412	7.1	54	5.2
16	1587	7.4	55	4.5
17	1790	1.1	2.7	3.9
18	1958	0.1	0.5	0.5
19	2153	0.85	1.7	3.7
20	2328	0.8	2.9	0.5
21	2502	2.4	6.9	0.5
22	2692	6.4	35	4.7
23	2881	5.8	18	1.8
24	3048	5.4	22	7.6

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options			IW04 Q42023								
3	Date/Time of Computation			ProUCL 5.112/25/2023 12:00:11 PM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	cis12DCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			23								
13	Number of Missing Events			0								
14	Number of Reported Events Used			23								
15	Number Values Reported (n)			23								
16	Minimum			24								
17	Maximum			140								
18	Mean			56.35								
19	Geometric Mean			50.37								
20	Median			57								
21	Standard Deviation			29.03								
22	Coefficient of Variation			0.515								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-54								
26	Critical Value (0.15)			-1.036								
27	Standard Deviation of S			37.76								
28	Standardized Value of S			-1.404								
29	Approximate p-value			0.0802								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.14/5/2024 10:21:22 AM								
4	From File			Q4_IW61_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	cis-1,2-DCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			23								
13	Number of Missing Events			0								
14	Number of Reported Events Used			23								
15	Number Values Reported (n)			23								
16	Minimum			24								
17	Maximum			140								
18	Mean			56.35								
19	Geometric Mean			50.37								
20	Median			57								
21	Standard Deviation			29.03								
22	Coefficient of Variation			0.515								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-54								
26	Critical Value (0.15)			-1.036								
27	Standard Deviation of S			37.76								
28	Standardized Value of S			-1.404								
29	Approximate p-value			0.0802								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D
1	Time Since	VC	cis-1,2-DCE	
2	0	0.86	120	
3	92	1.7	140	
4	219	1.6	24	
5	318	0.96	34	
6	415	0.96	32	
7	542	1.3	41	
8	655	1.2	45	
9	739	1.2	65	
10	823	1.1	71	
11	836	1.3	82	
12	935	1.7	67	
13	1019	1.8	63	
14	1103	2	58	
15	1285	2.9	71	
16	1460	4	65	
17	1663	4.5	63	
18	1831	4.1	30	
19	2026	1.8	25	
20	2201	3.8	41	
21	2375	3.2	25	
22	2565	2.7	57	
23	2754	2.7	36	
24	2921	3.8	41	

	A	B
1	Time Since	TCE
2	0	13
3	90	6.9
4	215	9.2
5	305	9.6
6	432	8.9
7	530	5.5
8	627	9.4
9	754	9.3
10	867	5.7
11	951	8
12	1036	8.6
13	1148	9.4
14	1231	9.4
15	1316	10
16	1498	11
17	1672	11
18	1876	10
19	2044	9.2
20	2239	11
21	2413	7.8
22	2587	9.2
23	2777	8.2
24	2967	9.3
25	3136	9.4

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options			MW04_Q42023_TCE								
3	Date/Time of Computation			ProUCL 5.112/25/2023 12:28:42 PM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	TCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			27								
13	Number of Missing Events			0								
14	Number of Reported Events Used			27								
15	Number Values Reported (n)			27								
16	Minimum			5.5								
17	Maximum			22								
18	Mean			10.04								
19	Geometric Mean			9.635								
20	Median			9.4								
21	Standard Deviation			3.247								
22	Coefficient of Variation			0.323								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-40								
26	Critical Value (0.15)			-1.036								
27	Standard Deviation of S			47.77								
28	Standardized Value of S			-0.816								
29	Approximate p-value			0.207								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2		User Selected Options		MW07_Q42023_TCE								
3		Date/Time of Computation		ProUCL 5.112/25/2023 6:33:15 PM								
4		From File		WorkSheet.xls								
5		Full Precision		OFF								
6		Confidence Coefficient		0.85								
7		Level of Significance		0.15								
8												
9		TCE										
10												
11		General Statistics										
12		Number of Events Reported (n)		22								
13		Number of Missing Events		0								
14		Number of Reported Events Used		22								
15		Number Values Reported (n)		22								
16		Minimum		4.8								
17		Maximum		18								
18		Mean		9.673								
19		Geometric Mean		8.822								
20		Median		7.7								
21		Standard Deviation		4.329								
22		Coefficient of Variation		0.448								
23												
24		Mann-Kendall Test										
25		M-K Test Value (S)		-129								
26		Tabulated p-value		0								
27		Standard Deviation of S		35.37								
28		Standardized Value of S		-3.619								
29		Approximate p-value		1.4791E-4								
30												
31		Statistically significant evidence of a decreasing										
32		trend at the specified level of significance.										

	A	B
1	Time Since	TCE
2	0	15
3	89	12
4	215	14
5	305	13
6	432	18
7	530	13
8	627	8.1
9	754	8.6
10	1035	11
11	1148	7.3
12	1231	6
13	1316	6.7
14	1498	5.9
15	1672	5.9
16	1880	5.8
17	2043	18
18	2238	15
19	2413	7.2
20	2587	6.5
21	2777	5.9
22	2967	5.1
23	3136	4.8

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2		User Selected Options										
3		Date/Time of Computation		ProUCL 5.11/22/2024 11:19:09 AM								
4		From File		PROUCL_MW13_rawadata.xls								
5		Full Precision		OFF								
6		Confidence Coefficient		0.85								
7		Level of Significance		0.15								
8												
9		PCE										
10												
11		General Statistics										
12		Number of Events Reported (m)		24								
13		Number of Missing Events		0								
14		Number or Reported Events Used		24								
15		Number Values Reported (n)		24								
16		Minimum		4.1								
17		Maximum		10								
18		Mean		6.458								
19		Geometric Mean		6.237								
20		Median		6.45								
21		Standard Deviation		1.767								
22		Coefficient of Variation		0.274								
23												
24		Mann-Kendall Test										
25		M-K Test Value (S)		-49								
26		Critical Value (0.15)		-1.036								
27		Standard Deviation of S		40.25								
28		Standardized Value of S		-1.193								
29		Approximate p-value		0.116								
30												
31		Statistically significant evidence of a decreasing										
32		trend at the specified level of significance.										

	A	B
1	Time Since	PCE
2	0	4.6
3	86	5.4
4	218	5.6
5	301	6.6
6	428	6.5
7	527	10
8	624	6.4
9	751	10
10	864	8.4
11	948	5.2
12	1032	8
13	1145	4.4
14	1228	6.5
15	1313	7.8
16	1495	7
17	1669	7.7
18	1873	9.1
19	2040	7.2
20	2235	4.1
21	2411	5.2
22	2585	5
23	2774	4.8
24	2964	4.3
25	3131	5.2

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options			MW18 - Vinyl Chloride								
3	Date/Time of Computation			ProUCL 5.112/25/2023 8:53:48 AM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	Vinyl Chloride											
10												
11	General Statistics											
12	Number of Events Reported (m)			24								
13	Number of Missing Events			0								
14	Number or Reported Events Used			24								
15	Number Values Reported (n)			24								
16	Minimum			0.1								
17	Maximum			2.4								
18	Mean			0.721								
19	Geometric Mean			0.435								
20	Median			0.425								
21	Standard Deviation			0.684								
22	Coefficient of Variation			0.948								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			209								
26	Critical Value (0.15)			1.036								
27	Standard Deviation of S			39.96								
28	Standardized Value of S			5.205								
29	Approximate p-value			9.7060E-8								
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B
1	Time Since	VC
2	42130	0.1
3	42219	0.1
4	42346	0.1
5	42437	0.1
6	42565	0.1
7	42663	0.1
8	42761	0.25
9	42887	0.31
10	43001	0.38
11	43085	0.24
12	43169	0.4
13	43281	0.43
14	43365	0.42
15	43449	0.49
16	43631	0.44
17	43806	0.55
18	44009	1.5
19	44177	2.4
20	44372	1.7
21	44547	1.8
22	44721	1.6
23	44910	1.1
24	45099	1.4
25	45267	1.3

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options			MW19 Vinyl Chloride								
3	Date/Time of Computation			ProUCL 5.112/25/2023 9:39:17 AM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	Vinyl Chloride											
10												
11	General Statistics											
12	Number of Events Reported (m)			23								
13	Number of Missing Events			0								
14	Number or Reported Events Used			23								
15	Number Values Reported (n)			23								
16	Minimum			0.1								
17	Maximum			2.8								
18	Mean			0.899								
19	Geometric Mean			0.564								
20	Median			0.79								
21	Standard Deviation			0.78								
22	Coefficient of Variation			0.867								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			164								
26	Critical Value (0.15)			1.036								
27	Standard Deviation of S			37.6								
28	Standardized Value of S			4.335								
29	Approximate p-value			7.2967E-6								
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C
1	Time Since	Vinyl Chloride	
2	42130	0.1	
3	42219	0.1	
4	42346	0.1	
5	42437	0.1	
6	42565	0.1	
7	42663	0.1	
8	42761	0.25	
9	42887	0.31	
10	43001	0.38	
11	43085	0.24	
12	43169	0.4	
13	43281	0.43	
14	43365	0.42	
15	43449	0.49	
16	43631	0.44	
17	43806	0.55	
18	44009	1.5	
19	44177	2.4	
20	44372	1.7	
21	44547	1.8	
22	44721	1.6	
23	44910	1.1	
24	45099	1.4	
25	45267	1.3	

	A	B	C
1	Time Since	Vinyl Chloride	
2	0	0.1	
3	90	0.1	
4	216	0.1	
5	308	0.1	
6	434	0.1	
7	533	0.1	
8	631	0.1	
9	757	0.1	
10	871	0.1	
11	955	0.49	
12	1039	0.43	
13	1151	0.29	
14	1235	0.3	
15	1319	0.96	
16	1501	1.1	
17	1676	1.3	
18	1879	0.49	
19	2047	1.8	
20	2242	0.86	
21	2417	1.3	
22	2591	1.9	
23	2780	1.4	
24	2970	2	
25	3137	2.6	

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.112/25/2023 9:58:48 AM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	Vinyl Chloride											
10												
11	General Statistics											
12	Number of Events Reported (m)			24								
13	Number of Missing Events			0								
14	Number or Reported Events Used			24								
15	Number Values Reported (n)			24								
16	Minimum			0.1								
17	Maximum			2.6								
18	Mean			0.755								
19	Geometric Mean			0.403								
20	Median			0.46								
21	Standard Deviation			0.754								
22	Coefficient of Variation			0.998								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			208								
26	Critical Value (0.15)			1.036								
27	Standard Deviation of S			39.13								
28	Standardized Value of S			5.29								
29	Approximate p-value			6.1240E-8								
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options			MW22_Q42023_cis12DCE								
3	Date/Time of Computation			ProUCL 5.112/25/2023 10:06:57 AM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	cis12DCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			24								
13	Number of Missing Events			0								
14	Number of Reported Events Used			24								
15	Number Values Reported (n)			24								
16	Minimum			5.5								
17	Maximum			58								
18	Mean			33.61								
19	Geometric Mean			28.12								
20	Median			35.5								
21	Standard Deviation			16.41								
22	Coefficient of Variation			0.488								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			134								
26	Critical Value (0.15)			1.036								
27	Standard Deviation of S			40.18								
28	Standardized Value of S			3.31								
29	Approximate p-value			4.6671E-4								
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options			MW22_VC Q42023								
3	Date/Time of Computation			ProUCL 5.112/25/2023 10:04:45 AM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	Time Since											
10												
11	General Statistics											
12	Number of Events Reported (m)			24								
13	Number of Missing Events			0								
14	Number of Reported Events Used			24								
15	Number Values Reported (n)			24								
16	Minimum			0								
17	Maximum			3137								
18	Mean			1366								
19	Geometric Mean			0								
20	Median			1193								
21	Standard Deviation			953.8								
22	Coefficient of Variation			0.698								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			108								
26	Critical Value (0.15)			1.036								
27	Standard Deviation of S			40.32								
28	Standardized Value of S			2.654								
29	Approximate p-value			0.00398								
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C
1	Time Since	cis-1,2-DCEVC	
2	0	27	0.1
3	90	34	0.1
4	216	42	0.1
5	307	52	0.35
6	434	5.5	0.1
7	533	6.7	0.65
8	631	8.5	0.51
9	757	10	1.5
10	871	18	1.4
11	955	22	1.2
12	1039	22	1.3
13	1151	28	1.2
14	1235	33	0.9
15	1319	37	1.2
16	1501	49	1
17	1676	48	1
18	1879	42	0.99
19	2047	44	1.1
20	2242	43	0.82
21	2417	52	1.2
22	2591	52	1.3
23	2781	58	1.1
24	2970	21	0.51
25	3137	52	1.6

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.14/5/2024 9:51:30 AM								
4	From File			Q4_MW24_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	cis-1,2-DCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			24								
13	Number of Missing Events			0								
14	Number of Reported Events Used			24								
15	Number Values Reported (n)			24								
16	Minimum			0.5								
17	Maximum			84								
18	Mean			42.83								
19	Geometric Mean			29.76								
20	Median			42								
21	Standard Deviation			24.45								
22	Coefficient of Variation			0.571								
23				Stable per Ecology Guidance CV <=1								
24	Mann-Kendall Test											
25	M-K Test Value (S)			11								
26	Critical Value (0.15)			1.036								
27	Standard Deviation of S			40.28								
28	Standardized Value of S			0.248								
29	Approximate p-value			0.402								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C
1	Time Since	cis-1,2-DCEVC	
2	0	72	0.26
3	90	75	0.1
4	216	54	0.1
5	308	45	0.1
6	436	12	0.1
7	533	12	0.26
8	630	20	0.81
9	757	35	1
10	872	33	0.36
11	955	30	0.38
12	1039	25	0.36
13	1151	41	2.1
14	1235	35	0.37
15	1319	43	0.51
16	1501	84	1
17	1676	83	0.94
18	1879	61	0.76
19	2047	45	0.61
20	2242	37	0.67
21	2417	46	0.71
22	2591	74	1.1
23	2781	64	6.1
24	2970	0.5	1.5
25	3137	1.5	2

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.112/27/2023 5:32:04 AM								
4	From File			PROUCL_MW25_rawadata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	TCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			24								
13	Number of Missing Events			0								
14	Number of Reported Events Used			24								
15	Number Values Reported (n)			24								
16	Minimum			0.5								
17	Maximum			75								
18	Mean			12.44								
19	Geometric Mean			2.079								
20	Median			0.86								
21	Standard Deviation			24.85								
22	Coefficient of Variation			1.998								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-71								
26	Critical Value (0.15)			-1.036								
27	Standard Deviation of S			38.21								
28	Standardized Value of S			-1.832								
29	Approximate p-value			0.0335								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.112/25/2023 10:19:59 AM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	Vinyl Chloride											
10												
11	General Statistics											
12	Number of Events Reported (m)			24								
13	Number of Missing Events			0								
14	Number of Reported Events Used			24								
15	Number Values Reported (n)			24								
16	Minimum			0.1								
17	Maximum			4.1								
18	Mean			0.925								
19	Geometric Mean			0.561								
20	Median			0.57								
21	Standard Deviation			1.043								
22	Coefficient of Variation			1.128								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			164								
26	Critical Value (0.15)			1.036								
27	Standard Deviation of S			40.21								
28	Standardized Value of S			4.054								
29	Approximate p-value			2.5181E-5								
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C
1	Time Since	Vinyl Chloric	TCE
2	0	0.1	68
3	90	0.1	75
4	216	0.1	71
5	306	0.1	50
6	433	0.7	4.8
7	531	0.96	5.1
8	629	0.89	3.6
9	756	0.31	1.2
10	870	0.4	0.5
11	954	0.41	0.5
12	1038	0.32	0.5
13	1150	0.52	0.5
14	1234	0.46	0.5
15	1318	0.6	0.5
16	1500	0.54	0.5
17	1675	0.63	0.5
18	1878	0.73	0.5
19	2046	0.43	0.5
20	2241	0.79	0.5
21	2416	3.6	0.52
22	2590	4.1	1.3
23	2780	2.2	3.8
24	2969	1.3	3.2
25	3136	1.9	5.5

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options			MW26 Q4 2023								
3	Date/Time of Computation			ProUCL 5.112/26/2023 8:00:42 AM								
4	From File			Q4_MW26_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	TCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			21								
13	Number of Missing Events			0								
14	Number of Reported Events Used			21								
15	Number Values Reported (n)			21								
16	Minimum			3.5								
17	Maximum			20								
18	Mean			11.13								
19	Geometric Mean			9.983								
20	Median			11								
21	Standard Deviation			5.014								
22	Coefficient of Variation			0.45								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-36								
26	Tabulated p-value			0.147								
27	Standard Deviation of S			32.98								
28	Standardized Value of S			-1.061								
29	Approximate p-value			0.144								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C
1	Time Since	PCE	TCE
2	0		10
3	127		12
4	225		12
5	323		13
6	450		7.9
7	563		7.1
8	647		15
9	732		6
10	843		18
11	927		18
12	1012		20
13	1194		20
14	1368		13
15	1572		13
16	1740		4
17	1935		6.6
18	2109		7.9
19	2284		3.5
20	2473		10
21	2663		11
22	2830		5.8

	A	B
1	Time Since	TCE
2	0	15
3	89	12
4	215	14
5	305	13
6	432	18
7	530	13
8	0	21
9	128	18
10	226	23
11	323	33
12	450	18
13	563	16
14	647	81
15	662	60
16	731	13
17	843	37
18	927	21
19	1012	17
20	1194	14
21	1368	15
22	1572	30
23	1739	69
24	1934	80
25	2109	28
26	2284	16
27	2474	16
28	2662	15
29	2830	4.5

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2		User Selected Options		MW27 Q42023								
3		Date/Time of Computation		ProUCL 5.112/25/2023 9:18:55 PM								
4		From File		WorkSheet.xls								
5		Full Precision		OFF								
6		Confidence Coefficient		0.85								
7		Level of Significance		0.15								
8												
9		TCE										
10												
11		General Statistics										
12		Number of Events Reported (m)		28								
13		Number of Missing Events		0								
14		Number or Reported Events Used		28								
15		Number Values Reported (n)		28								
16		Minimum		4.5								
17		Maximum		81								
18		Mean		26.09								
19		Geometric Mean		20.87								
20		Median		17.5								
21		Standard Deviation		20.71								
22		Coefficient of Variation		0.794								
23												
24		Mann-Kendall Test										
25		M-K Test Value (S)		18								
26		Critical Value (0.15)		1.036								
27		Standard Deviation of S		50.45								
28		Standardized Value of S		0.337								
29		Approximate p-value		0.368								
30												
31		Insufficient evidence to identify a significant										
32		trend at the specified level of significance.										

Stable per Ecology Guidance CV <=1

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options			MW28 Q4 2023								
3	Date/Time of Computation			ProUCL 5.112/26/2023 7:55:12 AM								
4	From File			Q4_MW24_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	cis12DCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			15								
13	Number of Missing Events			0								
14	Number of Reported Events Used			15								
15	Number Values Reported (n)			15								
16	Minimum			5.6								
17	Maximum			80								
18	Mean			29.91								
19	Geometric Mean			22.57								
20	Median			18								
21	Standard Deviation			24.61								
22	Coefficient of Variation			0.823								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-68								
26	Tabulated p-value			0								
27	Standard Deviation of S			20.12								
28	Standardized Value of S			-3.331								
29	Approximate p-value			4.3325E-4								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.112/26/2023 7:52:40 AM								
4	From File			Q4_MW24_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	PCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			15								
13	Number of Missing Events			0								
14	Number of Reported Events Used			15								
15	Number Values Reported (n)			15								
16	Minimum			0.5								
17	Maximum			9.2								
18	Mean			6.36								
19	Geometric Mean			5.137								
20	Median			7.6								
21	Standard Deviation			2.984								
22	Coefficient of Variation			0.469								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-69								
26	Tabulated p-value			0								
27	Standard Deviation of S			20.21								
28	Standardized Value of S			-3.365								
29	Approximate p-value			3.8254E-4								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options			MW28 Q42023								
3	Date/Time of Computation			ProUCL 5.112/26/2023 7:53:43 AM								
4	From File			Q4_MW24_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	TCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			15								
13	Number of Missing Events			0								
14	Number of Reported Events Used			15								
15	Number Values Reported (n)			15								
16	Minimum			0.25								
17	Maximum			6.1								
18	Mean			3.557								
19	Geometric Mean			2.819								
20	Median			3.9								
21	Standard Deviation			1.819								
22	Coefficient of Variation			0.511								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-85								
26	Tabulated p-value			0								
27	Standard Deviation of S			20.16								
28	Standardized Value of S			-4.167								
29	Approximate p-value			1.5422E-5								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2		User Selected Options		MW28 Q42023								
3		Date/Time of Computation		ProUCL 5.112/26/2023 7:56:38 AM								
4		From File		Q4_MW24_rawdata.xls								
5		Full Precision		OFF								
6		Confidence Coefficient		0.85								
7		Level of Significance		0.15								
8												
9		VC										
10												
11		General Statistics										
12		Number of Events Reported (m)		15								
13		Number of Missing Events		0								
14		Number or Reported Events Used		15								
15		Number Values Reported (n)		15								
16		Minimum		0.067								
17		Maximum		0.47								
18		Mean		0.163								
19		Geometric Mean		0.133								
20		Median		0.1								
21		Standard Deviation		0.124								
22		Coefficient of Variation		0.757								
23												
24		Mann-Kendall Test										
25		M-K Test Value (S)		-61								
26		Tabulated p-value		0.001								
27		Standard Deviation of S		17.79								
28		Standardized Value of S		-3.373								
29		Approximate p-value		3.7112E-4								
30												
31		Statistically significant evidence of a decreasing										
32		trend at the specified level of significance.										

	A	B	C	D	E
1	Time Since	PCE	TCE	cis12DCE	VC
2	0	7.7	4.7	67	0.47
3	90	9	5.7	80	0.35
4	208	8.7	6.1	72	0.31
5	264	8.4	4.9	52	0.27
6	469	9.1	5.1	22	0.1
7	637	8.3	4.9	19	0.1
8	798	9.2	4.3	17	0.1
9	831	7	3.5	14	0.1
10	886	7.6	3.9	18	0.1
11	921	7.5	3.4	15	0.1
12	1007	5.2	2.8	17	0.1
13	1182	2.7	1.4	23	0.082
14	1371	2.9	1.2	17	0.067
15	1559	0.5	0.25	5.6	0.1
16	1725	1.6	1.2	10	0.1

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.14/1/2024 7:52:37 AM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	cis-1,2-DCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			9								
13	Number of Missing Events			0								
14	Number of Reported Events Used			9								
15	Number Values Reported (n)			9								
16	Minimum			2.3								
17	Maximum			52								
18	Mean			20.81								
19	Geometric Mean			15.93								
20	Median			16								
21	Standard Deviation			14.61								
22	Coefficient of Variation			0.702								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-21								
26	Tabulated p-value			0.022								
27	Standard Deviation of S			9.539								
28	Standardized Value of S			-2.097								
29	Approximate p-value			0.018								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.14/1/2024 7:48:27 AM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	PCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			9								
13	Number of Missing Events			0								
14	Number or Reported Events Used			9								
15	Number Values Reported (n)			9								
16	Minimum			8.5								
17	Maximum			20								
18	Mean			15.12								
19	Geometric Mean			14.52								
20	Median			16								
21	Standard Deviation			4.139								
22	Coefficient of Variation			0.274								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			3								
26	Tabulated p-value			0.46								
27	Standard Deviation of S			9.399								
28	Standardized Value of S			0.213								
29	Approximate p-value			0.416								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.14/1/2024 7:50:37 AM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	TCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			9								
13	Number of Missing Events			0								
14	Number of Reported Events Used			9								
15	Number Values Reported (n)			9								
16	Minimum			2.2								
17	Maximum			15								
18	Mean			10.96								
19	Geometric Mean			9.9								
20	Median			12								
21	Standard Deviation			3.64								
22	Coefficient of Variation			0.332								
23				Stable per Ecology Guidance								
24	Mann-Kendall Test											
25	M-K Test Value (S)			-3								
26	Tabulated p-value			0.46								
27	Standard Deviation of S			9.434								
28	Standardized Value of S			-0.212								
29	Approximate p-value			0.416								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.14/1/2024 7:53:52 AM								
4	From File			WorkSheet.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	VC											
10												
11	General Statistics											
12	Number of Events Reported (m)			9								
13	Number of Missing Events			0								
14	Number of Reported Events Used			9								
15	Number Values Reported (n)			9								
16	Minimum			0.1								
17	Maximum			0.64								
18	Mean			0.208								
19	Geometric Mean			0.159								
20	Median			0.1								
21	Standard Deviation			0.19								
22	Coefficient of Variation			0.913								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			-20								
26	Tabulated p-value			0.022								
27	Standard Deviation of S			8.679								
28	Standardized Value of S			-2.189								
29	Approximate p-value			0.0143								
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E
1	Time Since	PCE	TCE	cis-1,2-DCE	
2	0	8.6	9.4	52	0.64
3	57	16	12	26	0.4
4	262	18	13	16	0.2
5	429	18	13	18	0.1
6	623	14	11	16	0.1
7	799	15	12	14	0.1
8	973	20	15	10	0.13
9	1416	18	11	33	0.1
10	1550	8.5	2.2	2.3	0.1

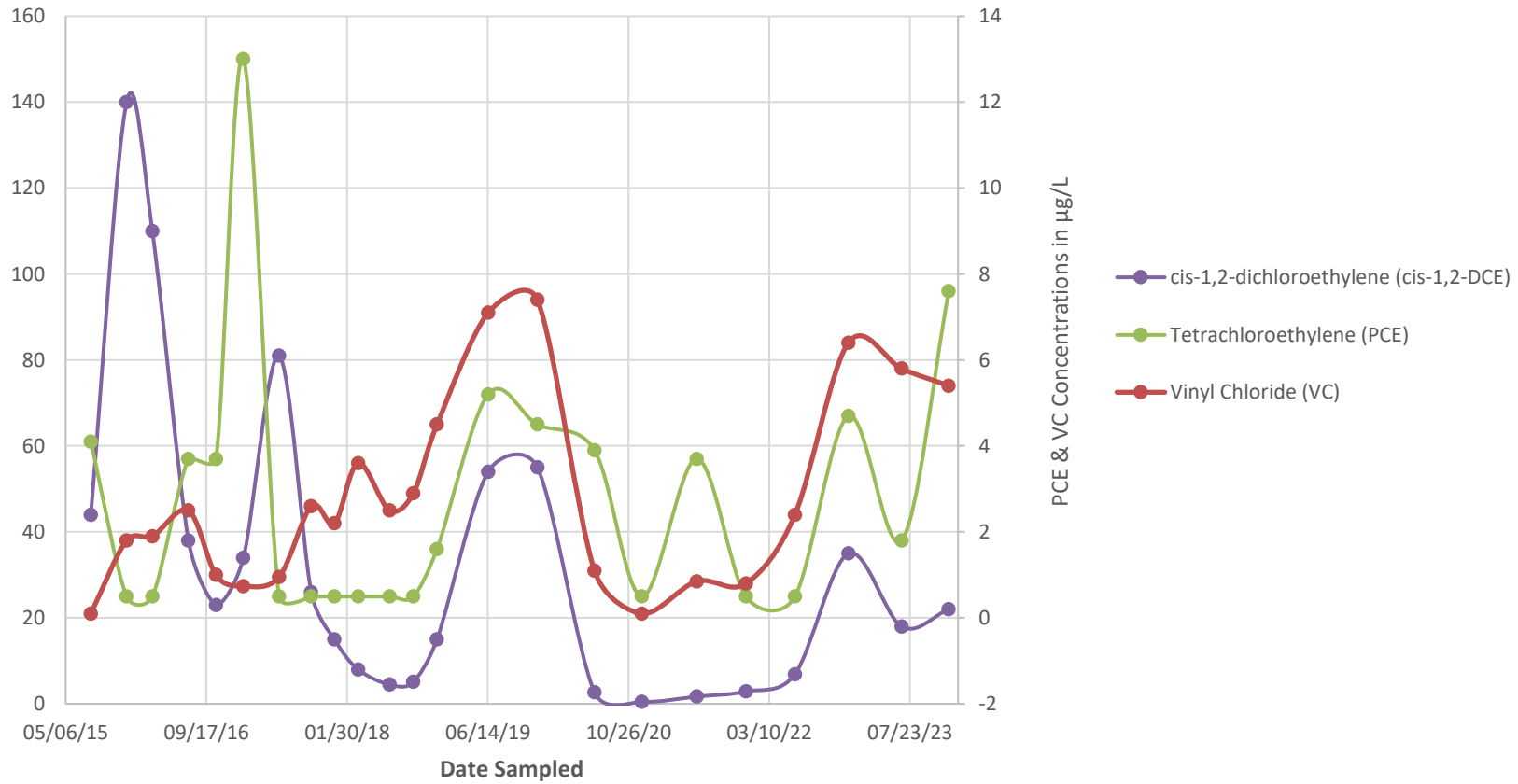
	A	B	C
1	Time Since	cis-1,2-DCE	
2	0	5.3	
3	173	5.9	
4	363	5.2	
5	552	4.8	
6	720	6.4	

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.112/26/2023 7:40:27 AM								
4	From File			Q4_MW24_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	TCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			5								
13	Number of Missing Events			0								
14	Number of Reported Events Used			5								
15	Number Values Reported (n)			5								
16	Minimum			4.8								
17	Maximum			6.4								
18	Mean			5.52								
19	Geometric Mean			5.492								
20	Median			5.3								
21	Standard Deviation			0.63								
22	Coefficient of Variation			0.114								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			0								
26	Tabulated p-value			0.592								
27	Standard Deviation of S			4.082								
28	Standardized Value of S			N/A								
29	Approximate p-value			N/A								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											



CVOCs Trend Plot
Chart A - IW50A
Troy Laundry Property
300 Boren Avenue North and
399 Fairview Avenue North
Seattle, Washington

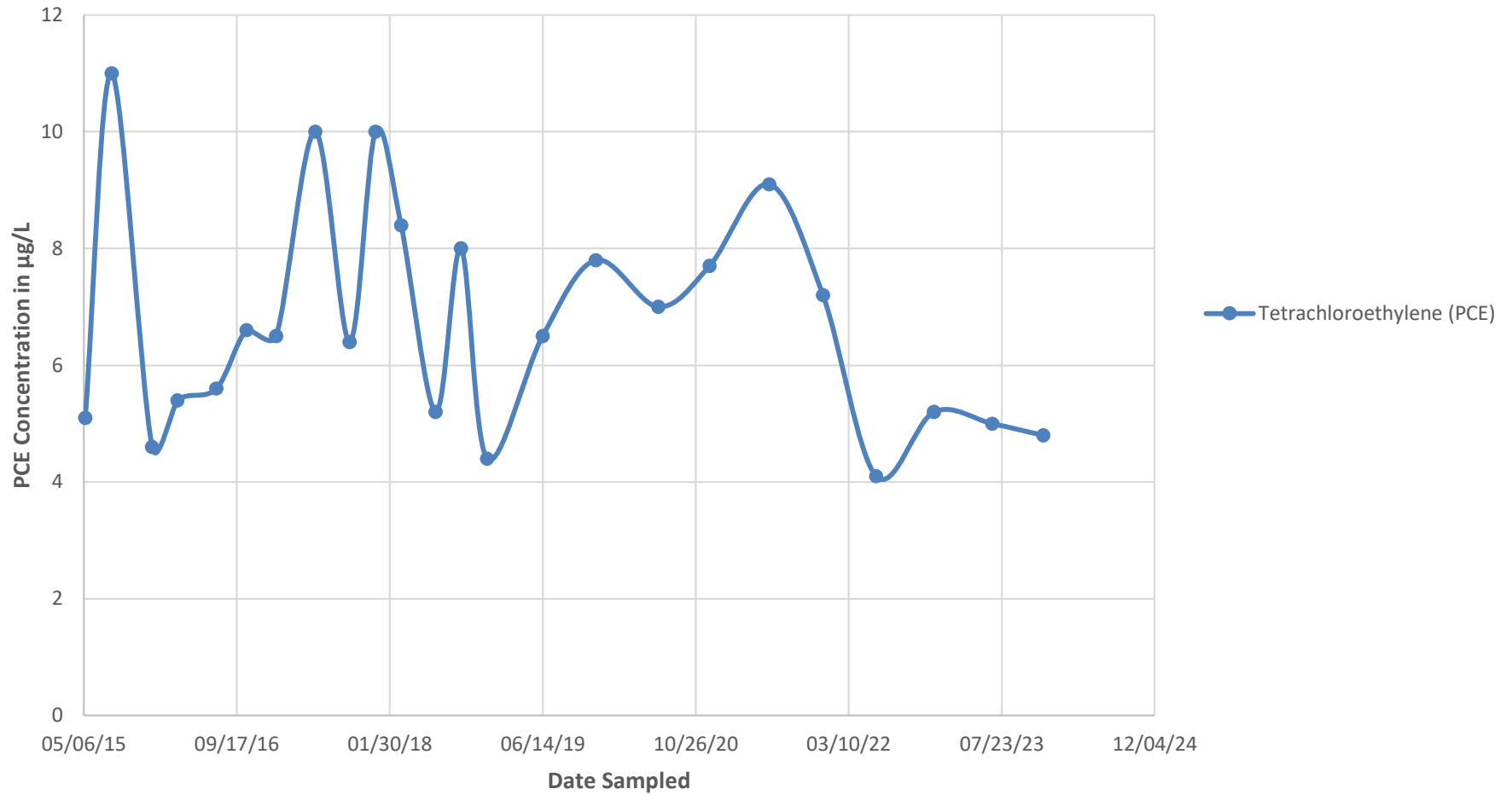
Chart A - IW50





CVOCs Trend Plot
Chart B - MW13
Troy Laundry Property
300 Boren Avenue North and
399 Fairview Avenue North
Seattle, Washington

Chart B - MW13





CVOCs Trend Plot
Chart C - MW29-29R
Troy Laundry Property
300 Boren Avenue North and
399 Fairview Avenue North
Seattle, Washington

Chart C - MW29-29R

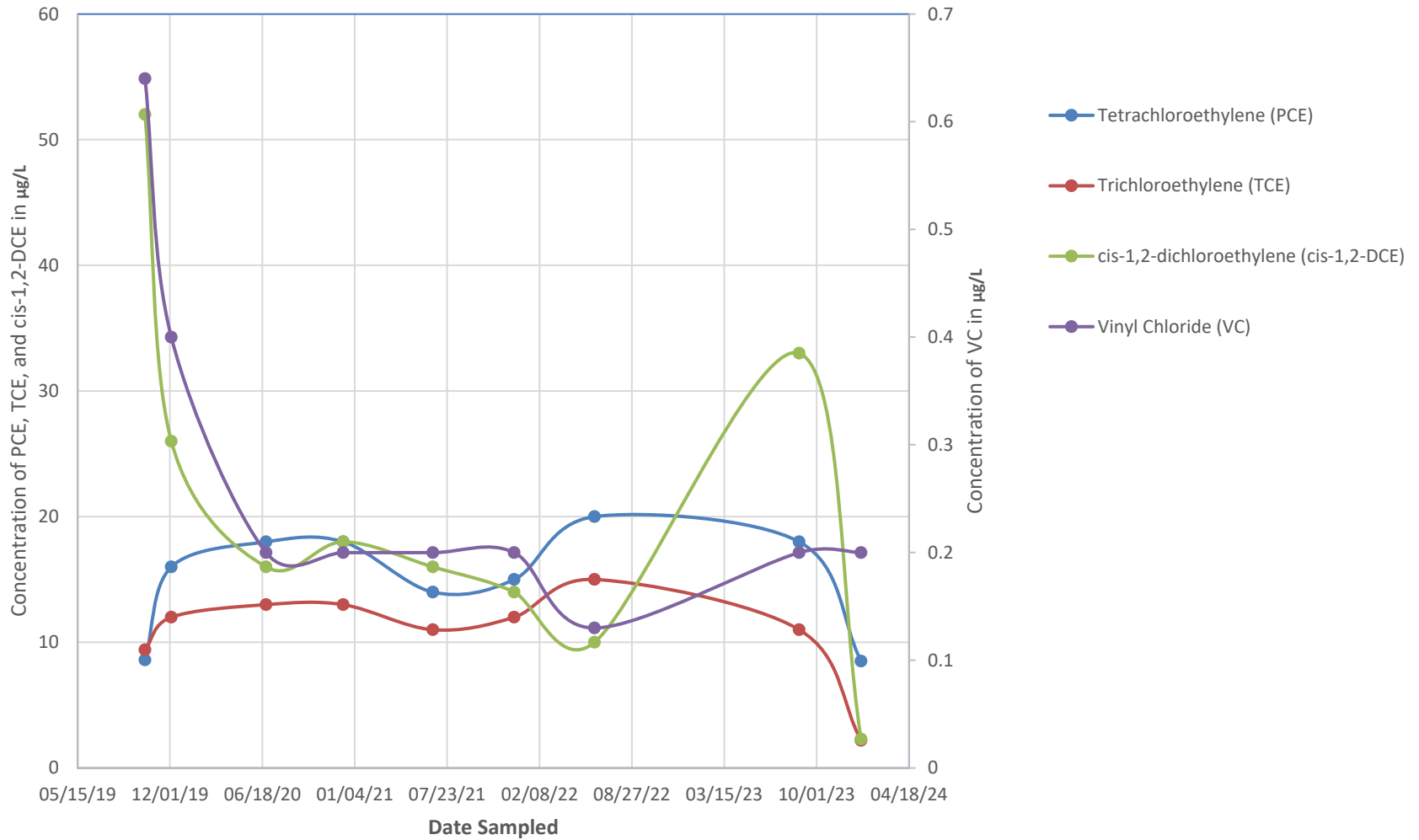


Chart D - MW25

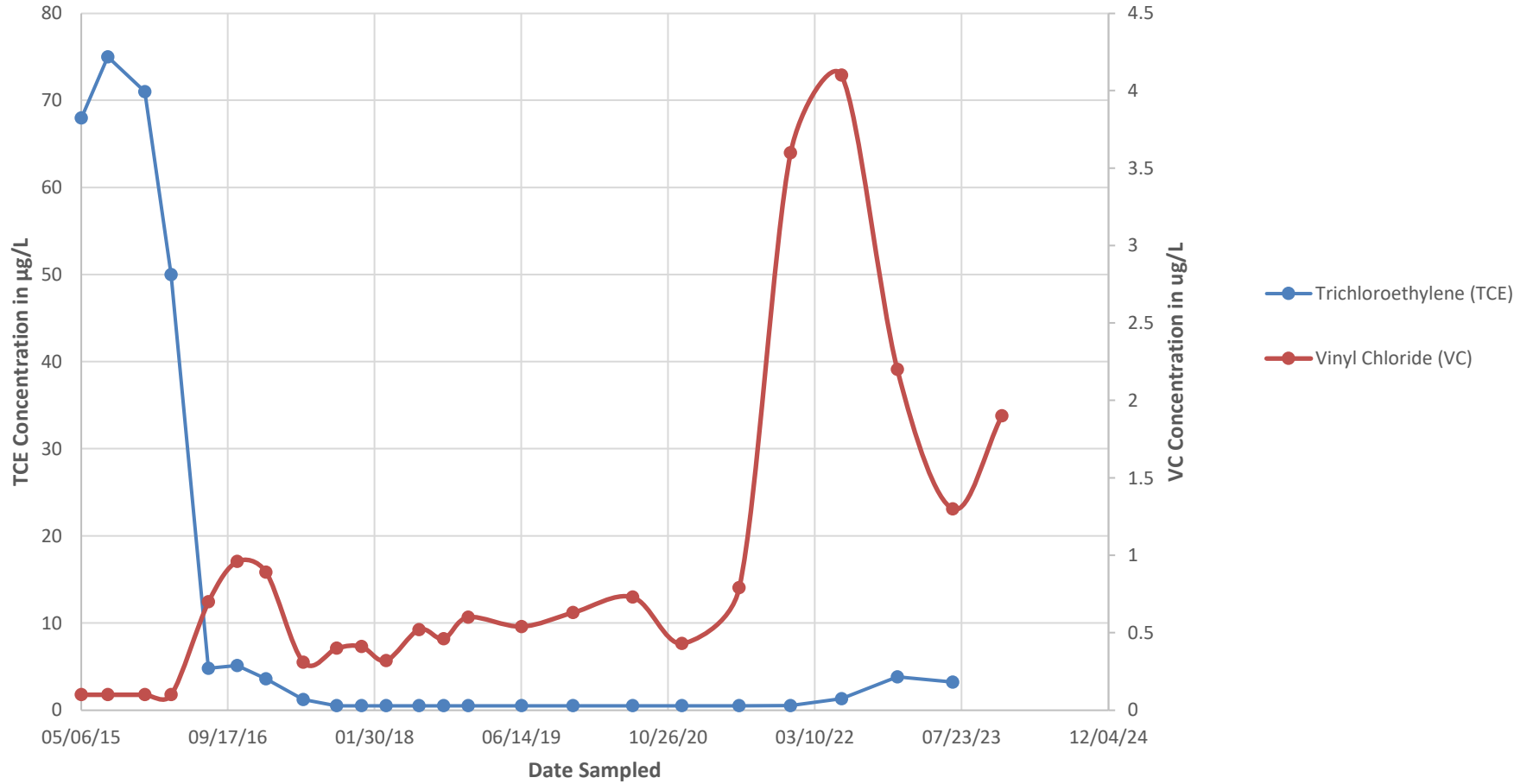
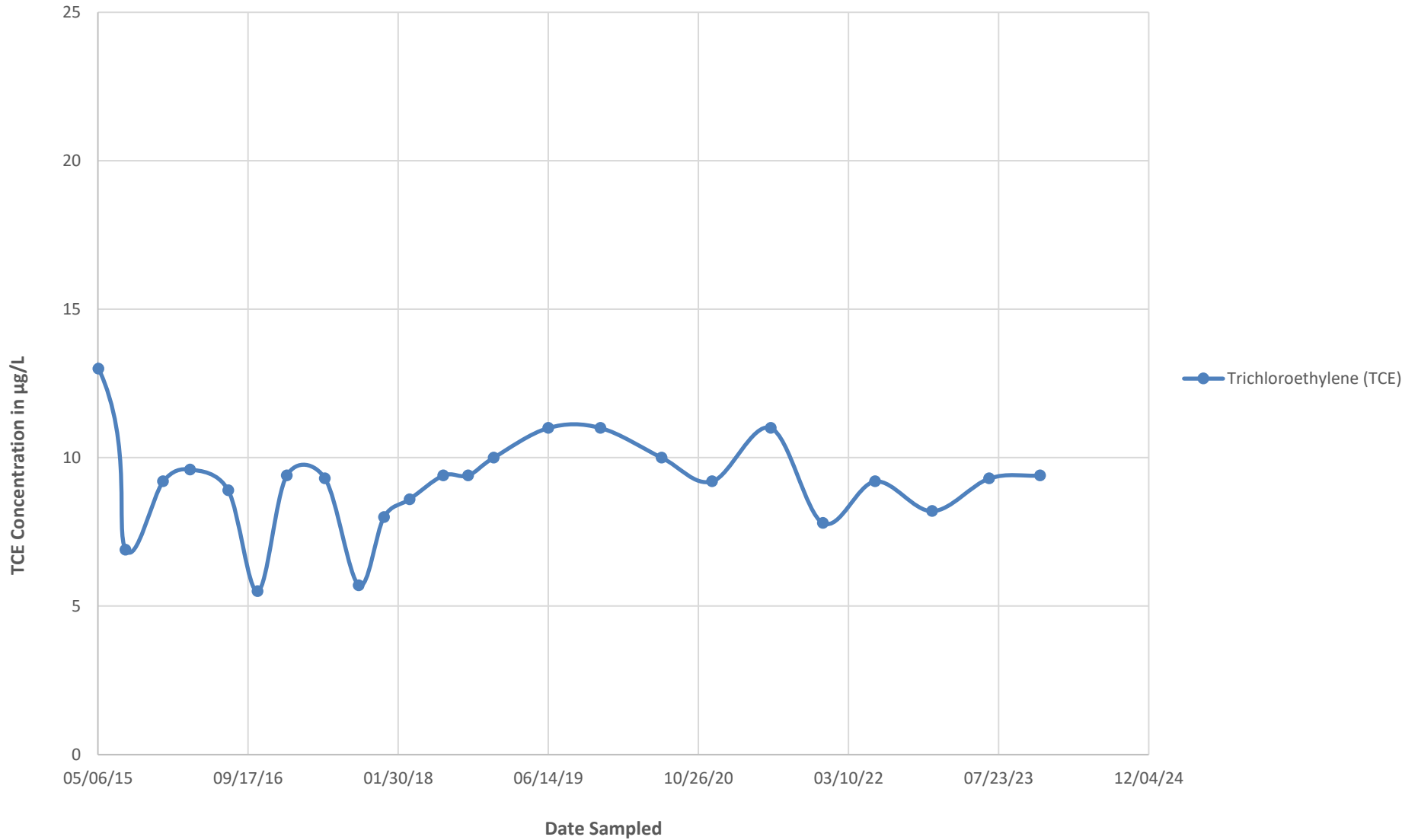


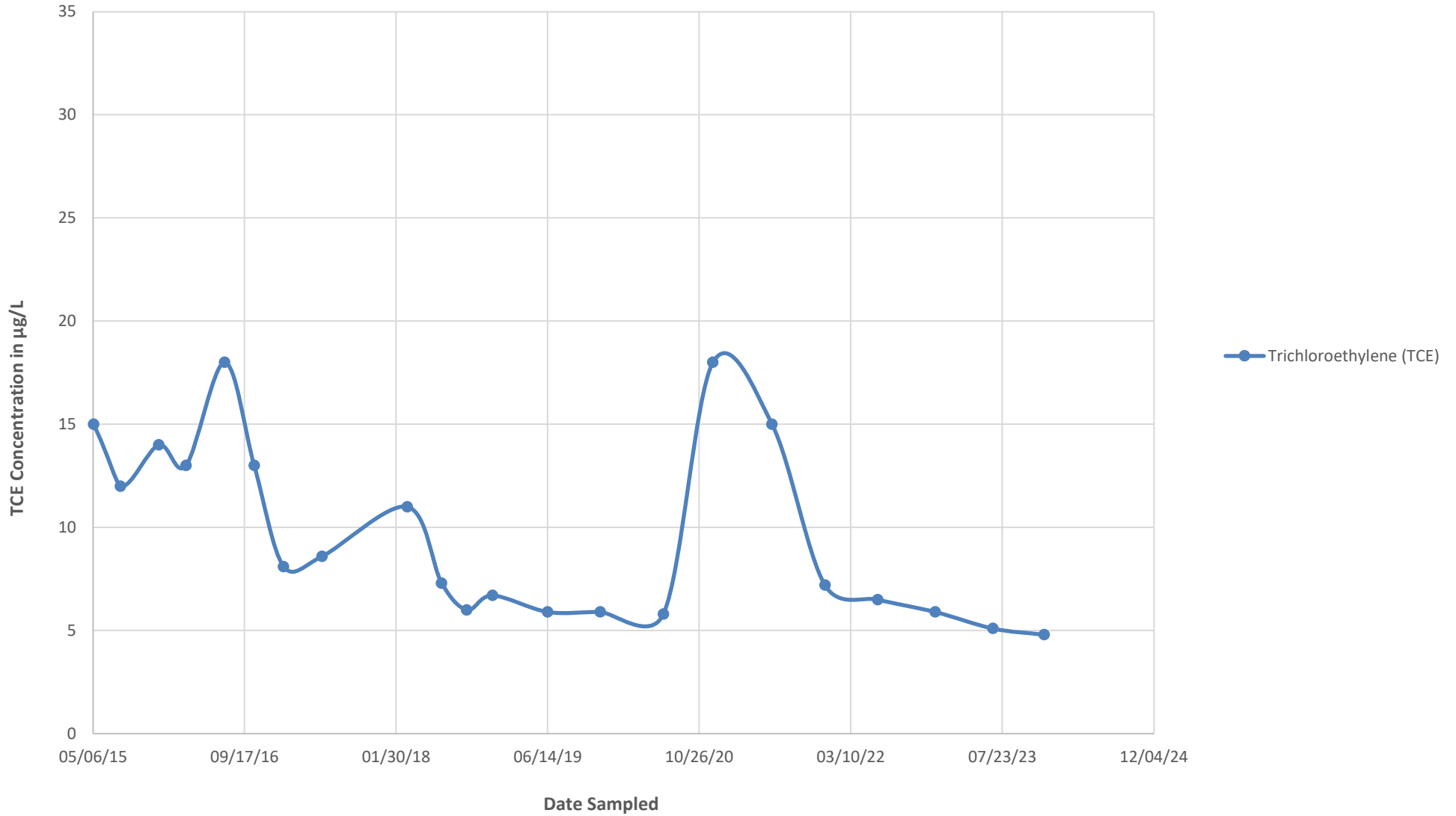
Chart E - MW04





CVOCs Trend Plot
Chart F - MW07
Troy Laundry Property
300 Boren Avenue North and
399 Fairview Avenue North
Seattle, Washington

Chart F - MW07





CVOCs Trend Plot
Chart G - MW26
Troy Laundry Property
300 Boren Avenue North and
399 Fairview Avenue North
Seattle, Washington

Chart G - MW26

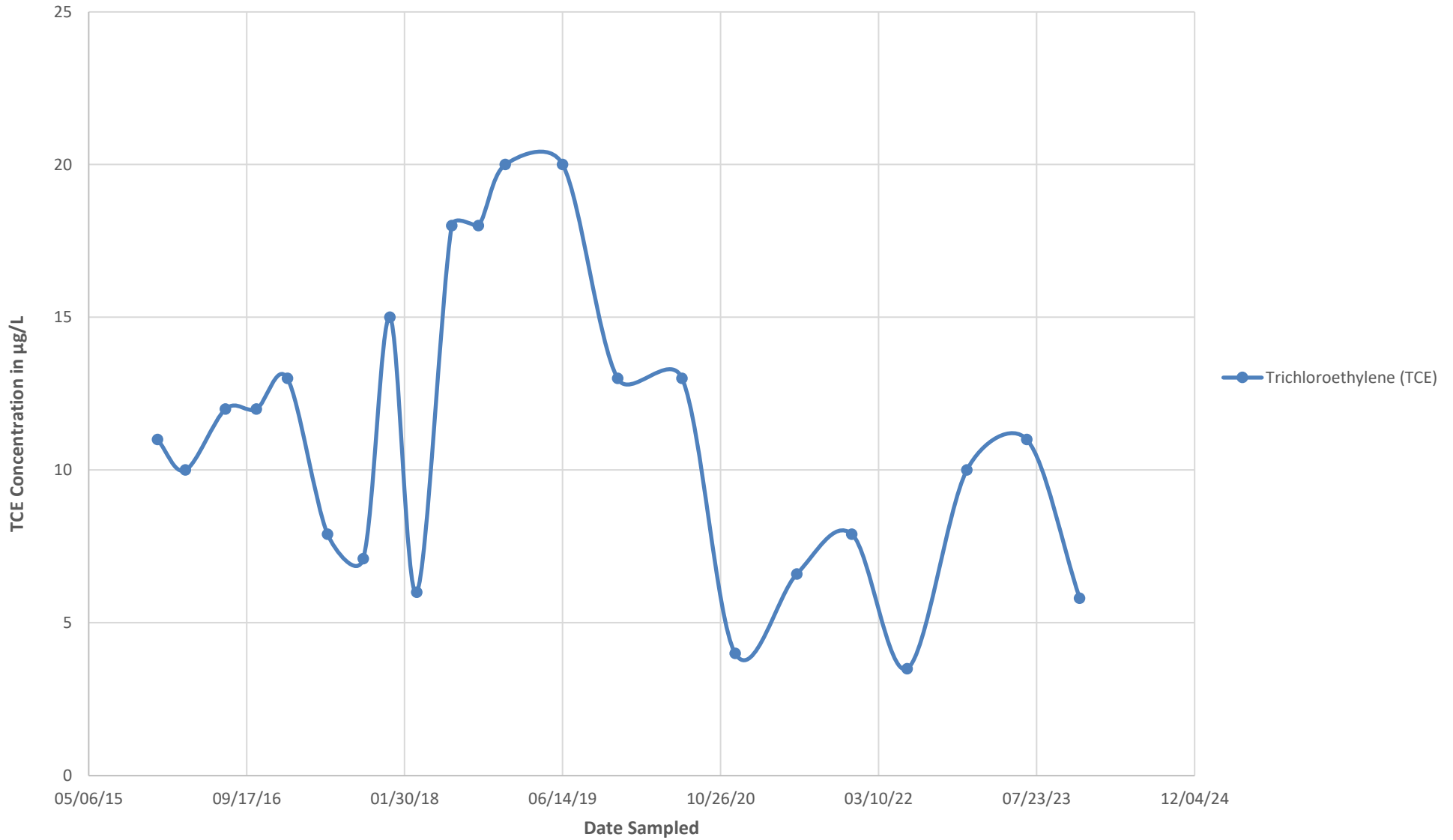
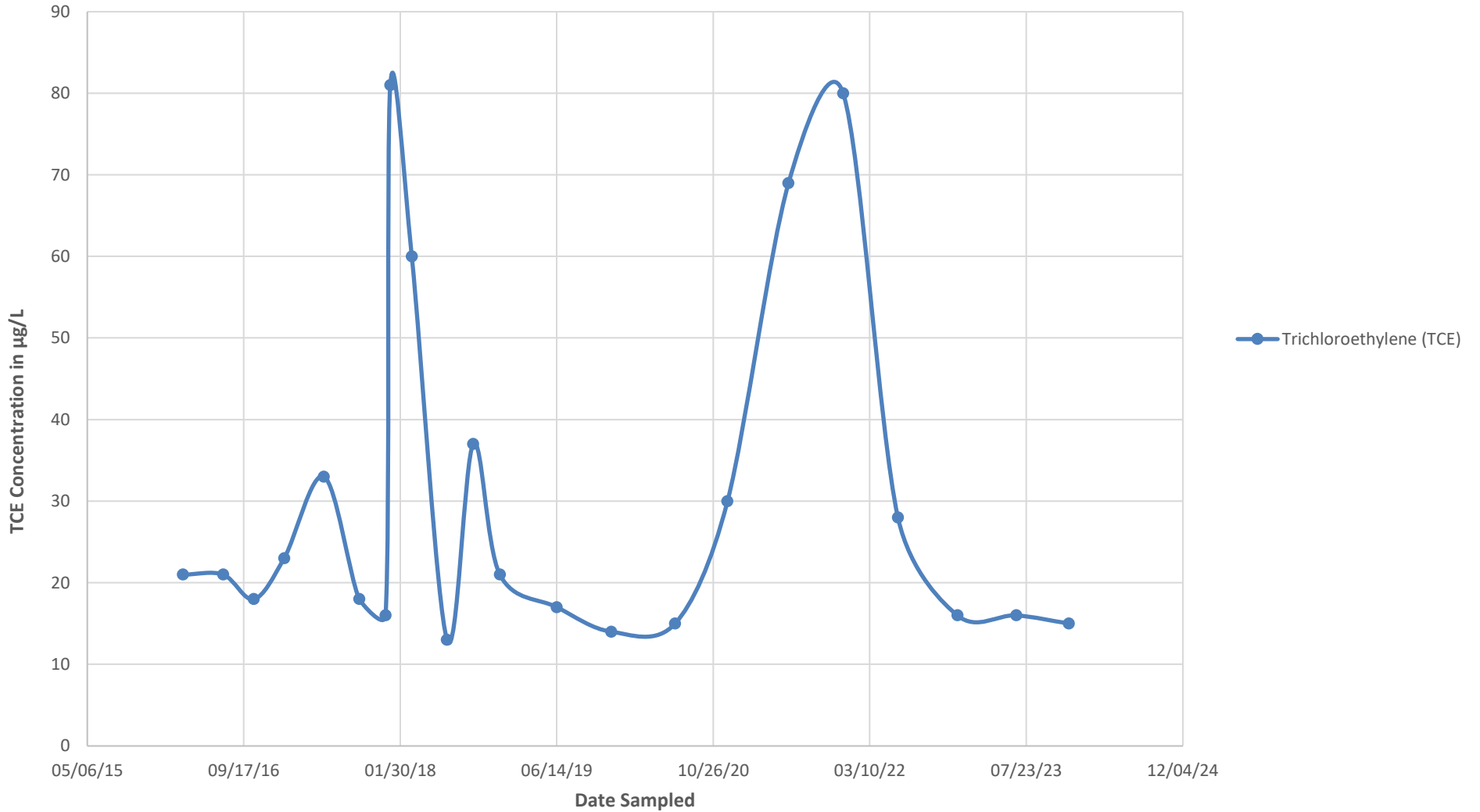


Chart H - MW27





CVOCs Trend Plot
Chart I - MW34
Troy Laundry Property
300 Boren Avenue North and
399 Fairview Avenue North
Seattle, Washington

Chart I - MW34

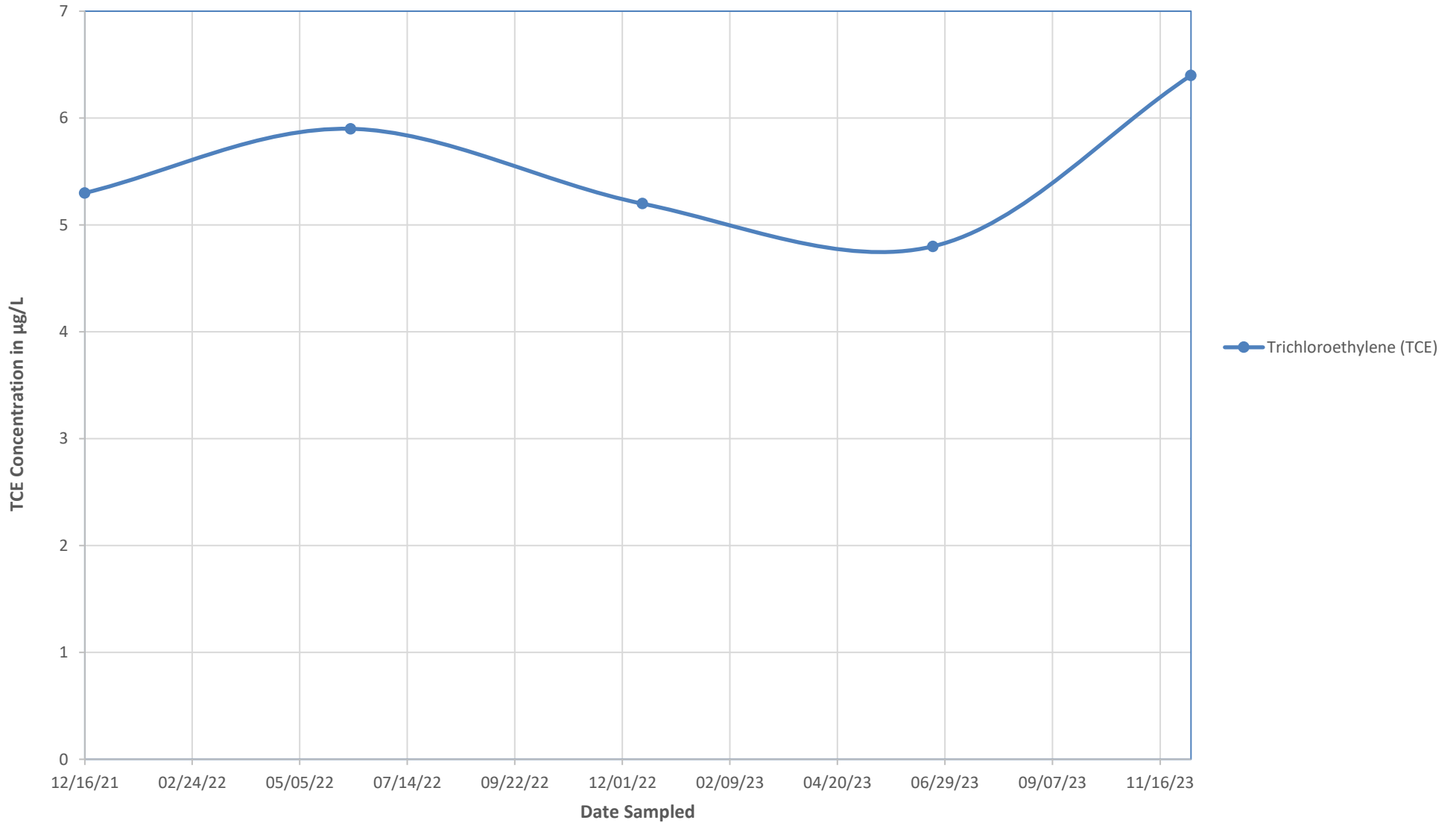


Chart J - MW28

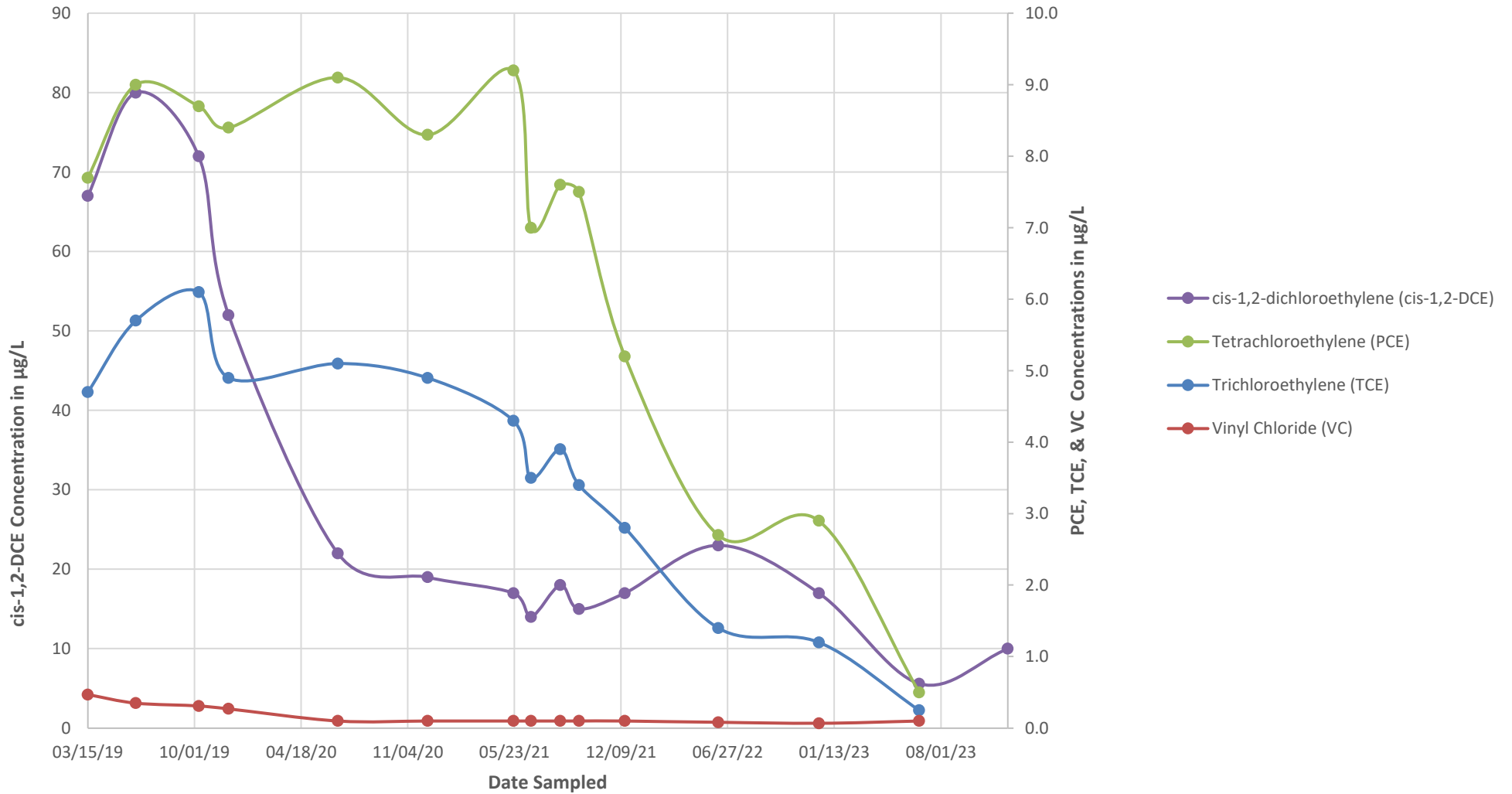


Chart K - MW22

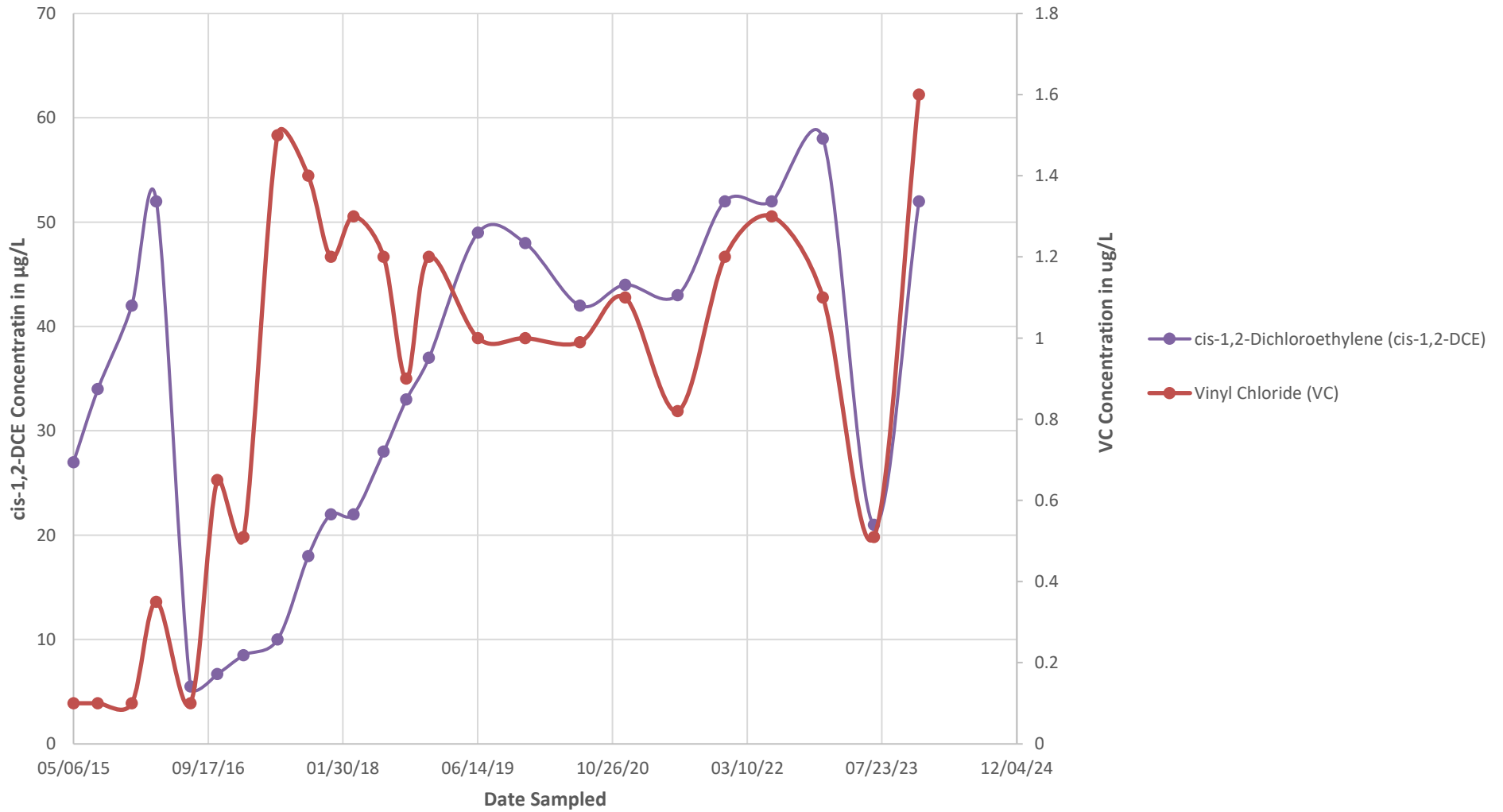


Chart L - MW24

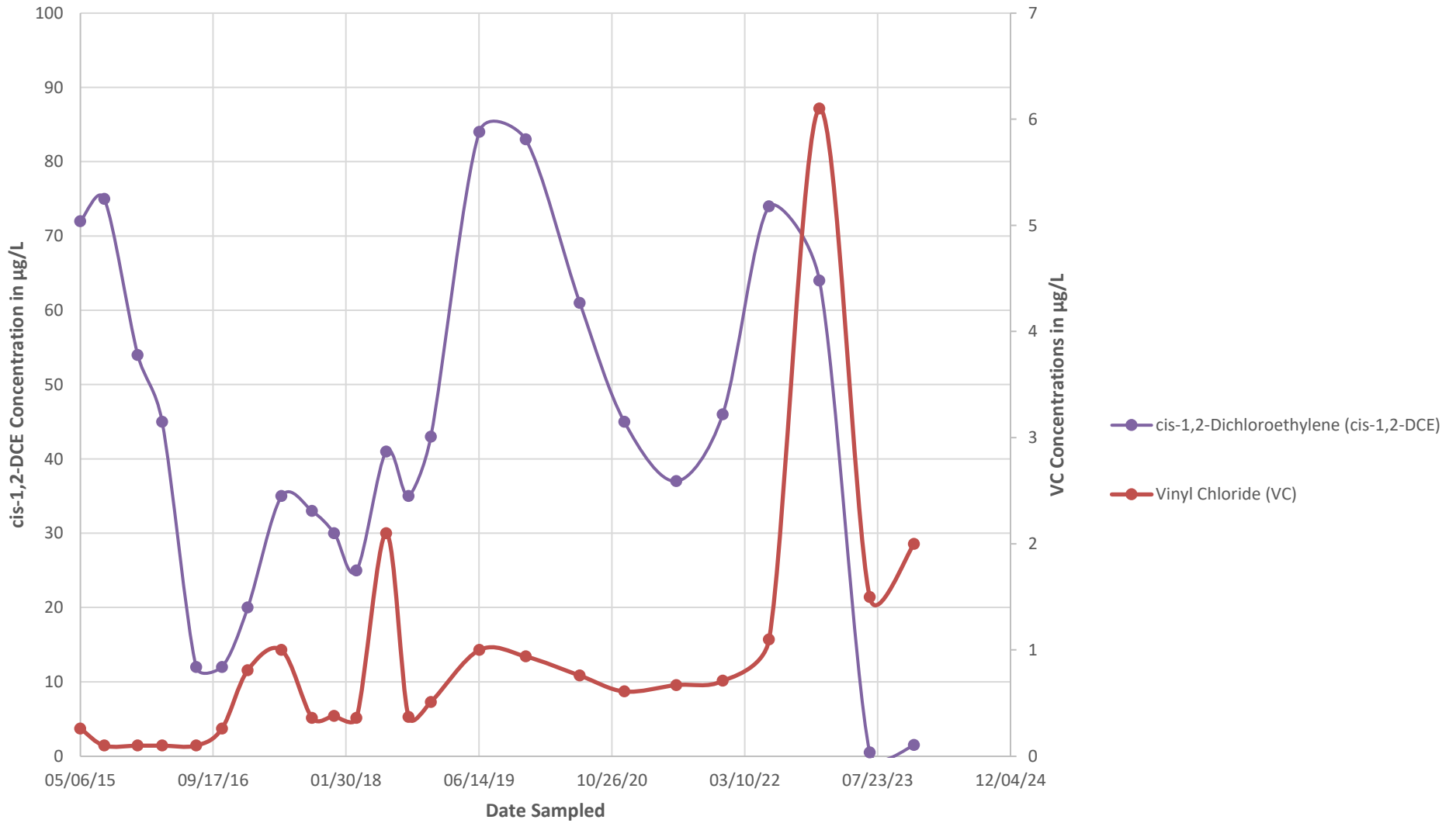
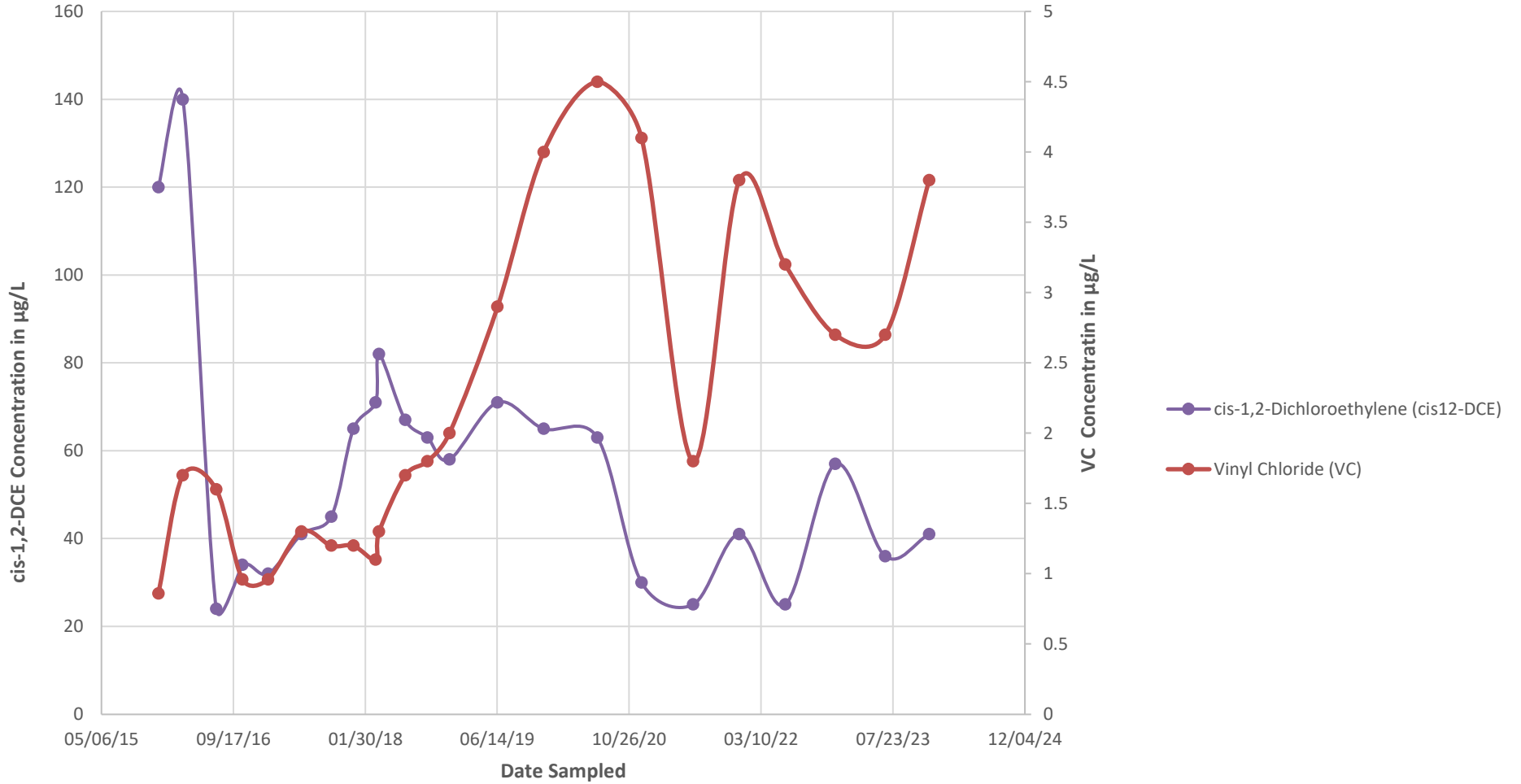


Chart M - IW61





CVOCs Trend Plot
Chart M - IW04
Troy Laundry Property
300 Boren Avenue North and
399 Fairview Avenue North
Seattle, Washington

Chart N - IW04

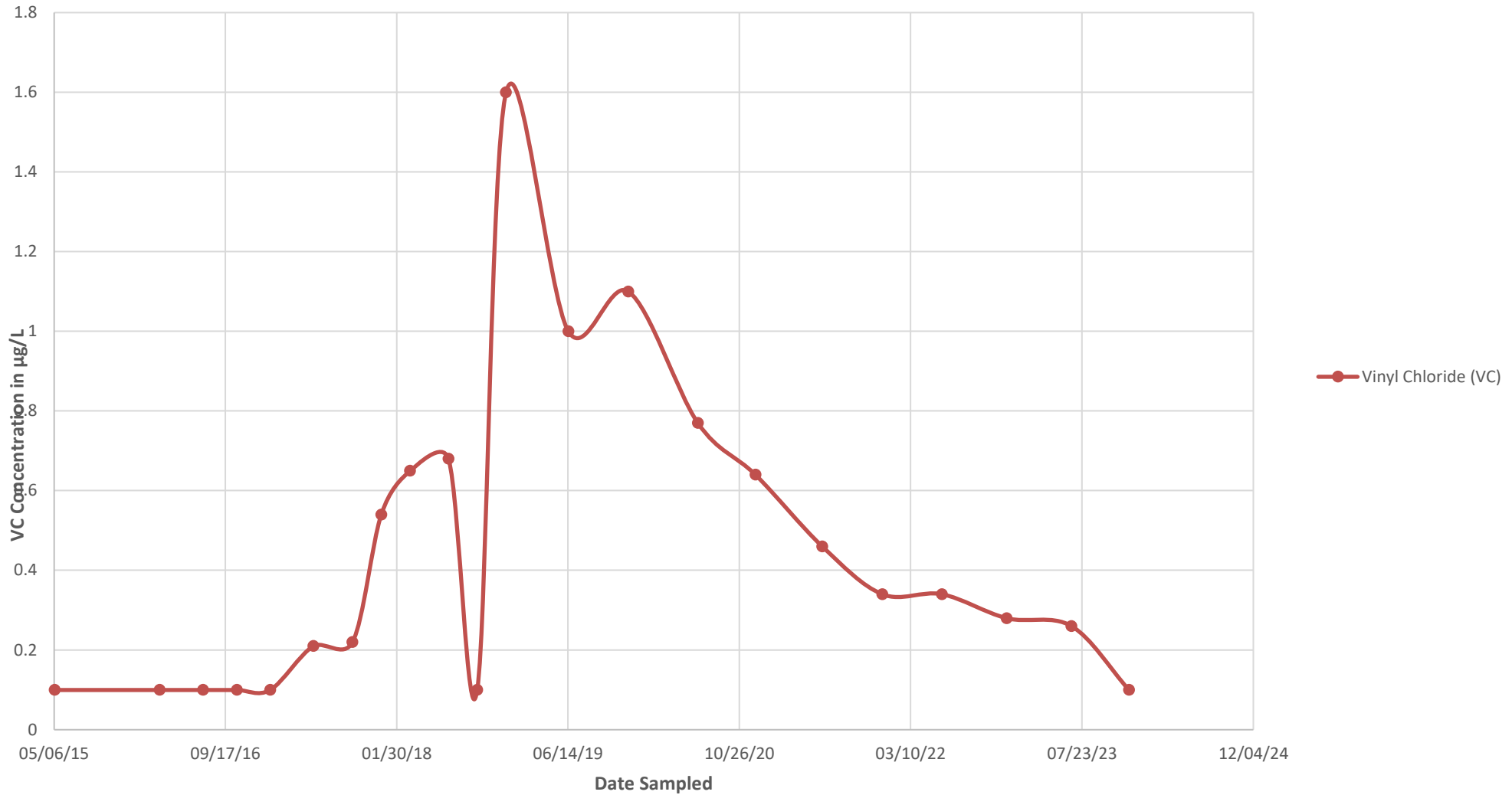


Chart O - MW18

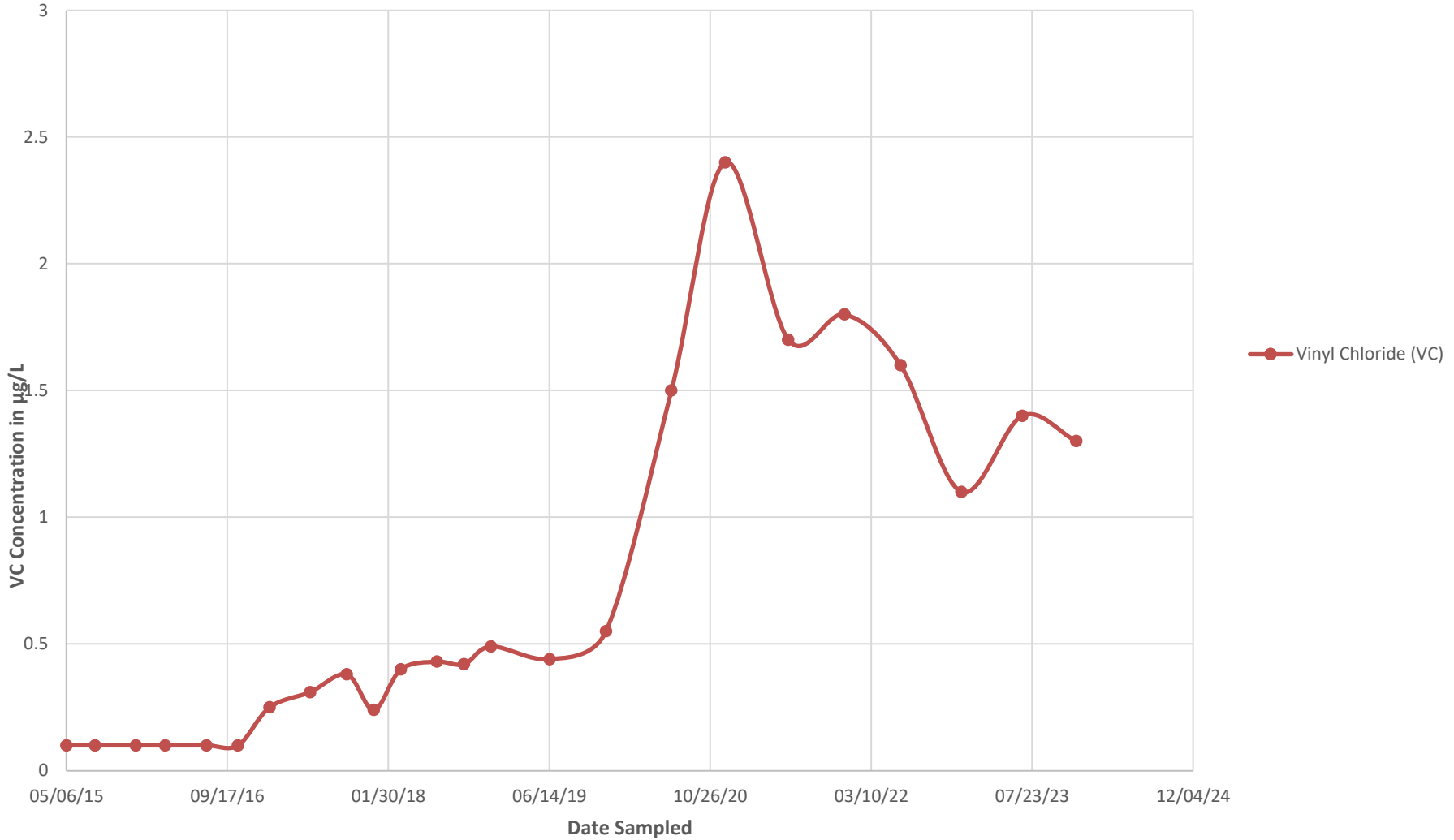
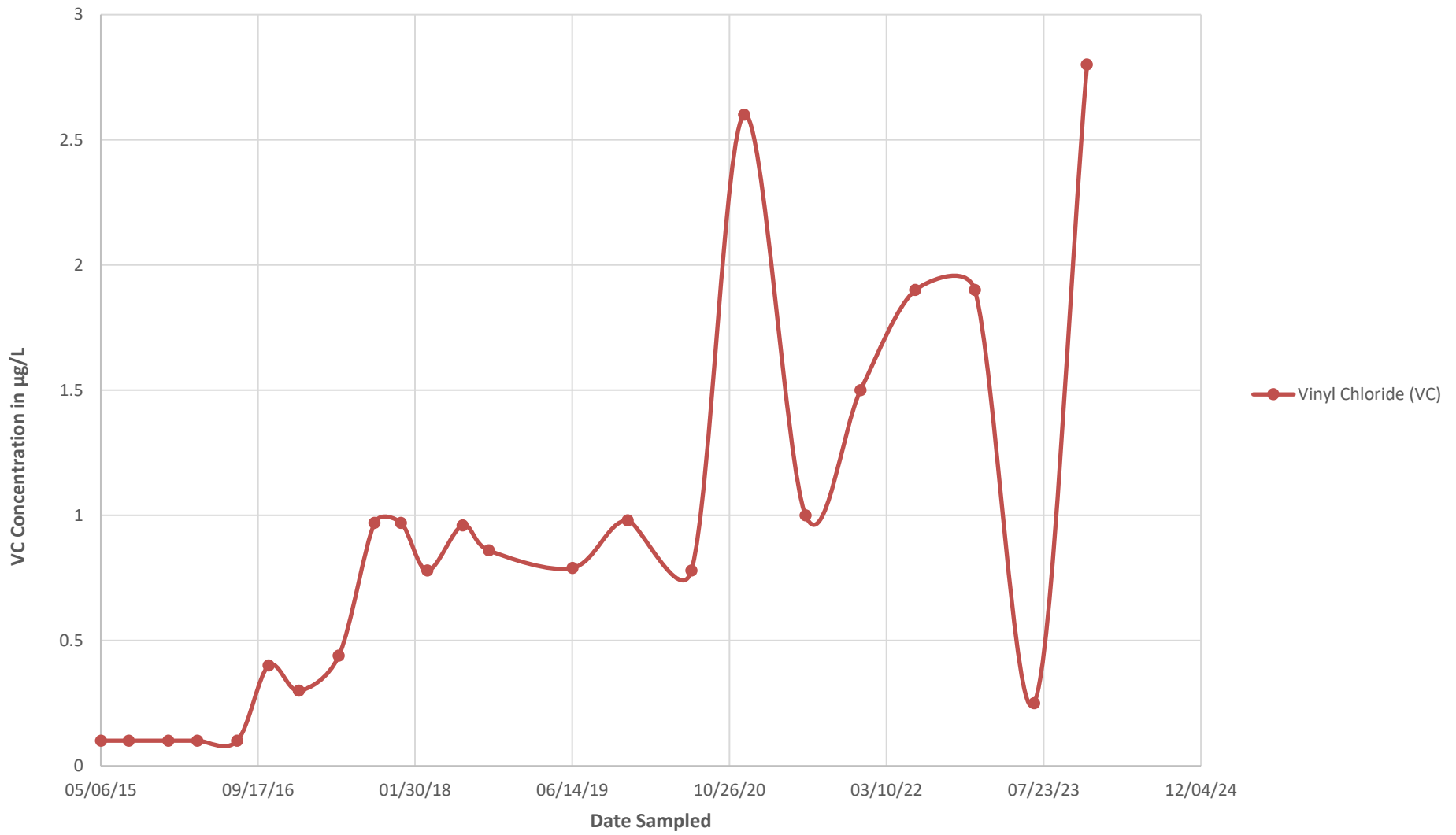


Chart P - MW19





CVOCs Trend Plot
Chart Q - MW21
Troy Laundry Property
300 Boren Avenue North and
399 Fairview Avenue North
Seattle, Washington

Chart Q - MW21

