SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

March 15, 2022

Mr. Dirk P. D. Mosis III
USAA Real Estate Company
118 Kitty Kat Lane
Boerne, Texas 78006

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

SUBJECT: 2021 GROUNDWATER MONITORING REPORT
Troy Laundry Seattle Site
Cleanup Site ID No. 11690
300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington
Project Number: 0731-004-08

Dear Messrs. Mosis and Jakus:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this report to present the results of the 2021 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 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. The purpose of this report is to summarize compliance groundwater monitoring work completed during the calendar year 2021, present the results of groundwater elevation measurements and laboratory analytical results, and provide a statistical trend analysis assessment of chlorinated volatile organic compounds (CVOCs) in groundwater at the Site.

2021 GROUNDWATER MONITORING EVENTS

The 2021 groundwater monitoring events were conducted during the second and fourth quarters (June and December, respectively) of 2021, 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.

The 2021 monitoring events included collecting groundwater data from all monitoring wells in the compliance well network as set forth in Exhibit A of the PPCD, as well as additional Site wells, consisting of the following:

- The Property: MW17 through MW25, IW04, IW06, IW50, IW61, and IW91
- Seattle Times Site: MW29[1], MW30[1], ONNI-MW-4[2], ONNI-MW-5[2], and ONNI-MW-9[2]. A groundwater sample was collected from ONNI-MW-9 during the fourth quarter monitoring event only.
- Harrison Street ROW: MW01, MW26, MW32[1], and MW33[1].
- Boren Avenue ROW: MW04, MW07, MW13, MW27, and MW31[1]
- Thomas Street ROW: MW28
- Terry Avenue North: MW34[3]. A groundwater sample was collected from MW34 during the fourth quarter monitoring event only.

This report presents a description of field activities performed during the 2021 groundwater monitoring events and the associated laboratory analytical results. Current and historical groundwater elevations and sample analytical results are presented in Tables 1 through 3.

FIELD ACTIVITIES

Upon arrival at the Site for the second and fourth quarter monitoring events, SoundEarth personnel opened all the monitoring wells prior to sampling to collect groundwater level measurements. Water levels were 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.

During both monitoring events, groundwater level measurements were collected from monitoring wells MW17 through MW25 and injection wells IW91, located on the Property; monitoring well MW34, located in the Terry Avenue North ROW; monitoring wells MW01, MW26, MW32, and MW33, located in the Harrison Street ROW; monitoring wells MW04, MW07, MW13, MW27, and MW31, located in the Boren Avenue North ROW; monitoring well MW28, located in the Thomas Street ROW; and monitoring wells MW29, MW30, ONNI-MW-4, ONNI-MW-5, and ONNI-MW-9, located on the Seattle Times Site.

From June 22 through 25 and December 14 through 17, 2021, groundwater samples were collected from monitoring wells MW01, MW04, MW07, MW13, MW17 through MW34, IW04, IW06, IW50, IW61, IW91, ONNI-MW-4, ONNI-MW-5, and ONNI-MW-9 in accordance with the US Environmental Protection Agency (EPA) *Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures* dated April 1996. Monitoring

[1] Monitoring wells MW29 through MW33 were installed in September 2019 as part of the Supplemental Remedial Investigation, as described in SoundEarth's Supplemental Remedial Investigation Work Plan, dated March 20, 2019. These wells are not sampled under the PPCD but are now 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.

[2] Monitoring wells ONNI-MW-4, ONNI-MW-5, and ONNI-MW-9 are not part of the Site monitoring well network but were sampled during the monitoring events as part of the ongoing groundwater monitoring and sampling program at the Site.

[3] MW34 is a replacement for MW15, which was damaged during construction activities in 2021 and was replaced in October 2021. This 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.

well MW15, formerly located in the Terry Avenue North ROW, was damaged during construction activities in early 2021 and could not be sampled during the second quarter monitoring event. Replacement monitoring well MW34 was installed in the same location in October 2021 and was sampled during the fourth quarter monitoring event. Monitoring well ONNI-MW-9, located on the Seattle Times Site, was sampled only during the fourth quarter monitoring event.

Additionally, a pilot test was conducted in April 2021 to evaluate the efficacy of using powder activated carbon (PAC) to reduce concentrations of CVOCs in the Thomas Street ROW. Three rounds of supplemental performance groundwater monitoring were subsequently conducted at monitoring well MW28 in May, August, and September 2021 to evaluate CVOC concentrations following the PAC injections.

Purging and sampling of each monitoring well was performed using a bladder pump (monitoring wells MW01, MW04, MW07, MW13, MW25 through MW34, ONNI-MW-4, ONNI-MW-5, and ONNI-MW-9) or a peristaltic pump (monitoring wells MW17 through MW24 and injection wells IW04, IW06, IW50, IW61, and IW91) and 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 through MW26, MW28, 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 EIM 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.

Note: As communicated in the PPCD Third Quarter 2020 Progress Report, starting in December 2020, GRPH, DRPH, and ORPH chemical analyses would be performed for groundwater samples collected from monitoring wells MW13, MW21, MW22, and MW28 only. In addition, BTEX chemical analyses would be discontinued for all wells on the Site going forward.

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 2021 sampling events are presented in Figures 2 and 3. Groundwater analytical results for CVOCs are presented on Figure 4.

May 2021 Supplemental Sampling

A supplemental groundwater sample was collected from monitoring well MW28 on May 21, 2021, to evaluate the performance of the PAC injection pilot test performed in the Thomas Street ROW in April 2021. The groundwater elevation was 11.95 feet North American Vertical Datum of 1988 (NAVD88) at the time of sampling. PCE and cis-1,2-DCE were detected at concentrations exceeding Washington State Model Toxics Control Act (MTCA) cleanup levels.

Second Quarter 2021

Groundwater elevations measured in June 2021 ranged from 10.62 feet NAVD88 (at monitoring well MW33) to 17.64 feet NAVD88 (at ONNI-MW-5). Groundwater elevations were contoured using the water level measurements collected on June 22, 2021 (Figure 2; Table 1). The groundwater contours for the second quarter 2021 monitoring event indicated that groundwater at the Site flowed generally to the west-northwest with a hydraulic gradient of 0.003 feet per foot, which is a departure from the flow to the south-southeast that has been historically observed at the Property. Construction dewatering efforts to the northwest of the Property appear to have influenced groundwater flow across the Site between the second quarter of 2020 and the second quarter of 2021. According to Ecology records, it appears that the construction dewatering system at Block 38 West was terminated in late March 2021, and the dewatering wells were decommissioned in April 2021. Given that groundwater at the Site did not return to its historical flow direction by June 2021, dewatering at 400 Westlake Avenue or another property to the west of the Site with ongoing construction dewatering may have continued to influence groundwater flow at the Property during the second quarter of 2021.

Laboratory analytical results from the second quarter 2021 monitoring event were compared to MTCA Method A or B cleanup levels, as applicable, for groundwater and are summarized below (Figure 4; Tables 2 and 3):

- Concentrations of PCE exceeding the MTCA Method A cleanup level were detected in the groundwater samples collected from monitoring well MW28, located in the Thomas Street ROW, and monitoring well MW29, located on the northwestern portion of the Seattle Times Site. The concentrations of PCE in the groundwater samples collected from all other Site monitoring wells were below the laboratory reporting limit and/or MTCA Method A cleanup level.
- Concentrations of TCE exceeding the MTCA Method A cleanup level were detected in the groundwater samples collected from monitoring wells MW04, MW07, MW27, and MW31, located in the Boren Avenue North ROW; monitoring well MW26, located in the Harrison Street ROW; and monitoring well MW29, located on the Seattle Times Site. The concentrations of TCE in the remaining groundwater samples were below the laboratory reporting limit and/or MTCA Method A cleanup level.
- Concentrations of cis-1,2-DCE exceeding the MTCA Method B cleanup level were detected in the groundwater samples collected from on-Property monitoring wells MW22 through MW25, on-Property injection well IW61, and monitoring well MW29, located on the Seattle Times Site. Concentrations of cis-1,2-DCE in the remaining groundwater samples were below the laboratory reporting limit and/or MTCA Method B cleanup level.
- Concentrations of VC exceeding the MTCA Method A cleanup level were detected in groundwater samples collected from on-Property monitoring wells MW18, MW19, and MW21 through MW25 and injection wells IW04, IW06, IW50, and IW61. Concentrations of VC in the remaining groundwater samples were below the laboratory reporting limit and/or MTCA Method A cleanup level.
- Concentrations of trans-1,2-DCE in the groundwater samples collected from all sampled wells were below the laboratory reporting limit.
- DRPH and/or ORPH concentrations exceeding MTCA Method A cleanup levels were detected in groundwater samples collected from on-Property monitoring wells MW21 and MW22. These groundwater samples, in addition to samples from monitoring wells MW13 and MW28, 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 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. Concentrations of DPRH and ORPH in the remaining groundwater samples from all monitoring wells at the Site were below the laboratory reporting limit and/or MTCA Method A cleanup level.
- GRPH concentrations were below the laboratory reporting limit and/or MTCA Method A cleanup level in all groundwater samples collected from all wells at the Site except monitoring well MW21. The GRPH detection in the groundwater sample collected from monitoring well MW21 is attributable to the presence of EOS and its polar breakdown products in groundwater.
- Concentrations of BTEX constituents in all groundwater samples collected were below laboratory reporting limits.

August and September 2021 Supplemental Sampling

Additional groundwater samples were collected from monitoring well MW28 on August 17 and September 21, 2021, to further evaluate the performance of the PAC injection pilot test performed in the Thomas Street ROW in April 2021. The groundwater elevations measured on August 17 and September 21, 2021, were 12.53 and 12.62 feet NAVD88, respectively. During the August 2021 supplemental sampling event, PCE and cis-1,2-DCE were detected at concentrations exceeding MTCA cleanup levels. During the September 2021 supplemental sampling event, PCE was detected at a concentration exceeding the MTCA Method A cleanup level, and cis-1,2-DCE was observed to have decreased slightly to a concentration below the cleanup level.

Fourth Quarter 2021

Groundwater elevations measured in December 2021 ranged from 13.50 feet NAVD88 (at monitoring wells MW21, MW27, and ONNI-MW-9) to 18.74 feet NAVD88 (at monitoring well ONNI-MW-5). Groundwater elevations were contoured using the water level measurements collected on December 12, 2021 (Figure 3; Table 1). The groundwater contours indicated that groundwater at the Site flowed generally to the south-southeast with a hydraulic gradient of 0.003 feet per foot. Following the completion of construction dewatering activities at Block 38 West to the northwest of the Property in March 2021, groundwater flow observed at the Property during fourth quarter 2021 was consistent with the historical flow direction prior to the 2020 and 2021 construction dewatering activities upgradient of the Property.

Laboratory analytical results from the monitoring event were compared to MTCA Method A or B cleanup levels for groundwater and are summarized below (Figure 4; Tables 2 and 3):

- Concentrations of PCE exceeding the MTCA Method A cleanup level were detected in the groundwater samples collected from monitoring well MW13, located in the Boren Avenue North ROW; monitoring well MW28, located in the Thomas Street ROW; and monitoring well MW29, located on the Seattle Times Site. The concentrations of PCE in the remaining groundwater samples were below the laboratory reporting limit and/or MTCA Method A cleanup level.
- Concentrations of TCE exceeding the MTCA Method A cleanup level were detected in the groundwater samples collected from monitoring wells MW04, MW07, MW27, and MW31, located in the Boren Avenue North ROW; monitoring well MW26, located in the Harrison Street ROW; monitoring well MW34, located in the Terry Avenue North ROW; and monitoring well MW29, located on the Seattle Times Site. The concentrations of TCE in the remaining groundwater samples were below the laboratory reporting limit and/or MTCA Method A cleanup level.
- Concentrations of cis-1,2-DCE exceeding the MTCA Method B cleanup level were detected in the groundwater samples collected from on-Property monitoring wells MW22 and MW24, on-Property injection well IW61, and monitoring well MW28, located in the Thomas Street ROW. Concentrations of cis-1,2-DCE in the remaining groundwater samples were below the laboratory reporting limit and/or MTCA Method B cleanup level.
- Concentrations of VC exceeding the MTCA Method A cleanup level were detected in groundwater samples collected from on-Property monitoring wells MW18, MW19, and MW21 through MW25, and on-Property injection wells IW04, IW50, and IW61. Concentrations of VC in the remaining groundwater samples were below the laboratory reporting limit and/or MTCA Method A cleanup level.

- Concentrations of trans-1,2-DCE in the groundwater samples collected from all sampled wells were below the laboratory reporting limit.
- DRPH and/or ORPH concentrations exceeding MTCA Method A cleanup levels were detected in groundwater samples collected from on-Property monitoring wells MW21 and MW22. These groundwater samples, in addition to the sample collected from monitoring well MW28, were flagged by the laboratory as having a chromatographic pattern that does not match the fuel standard used for quantification. This 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. Concentrations of DPRH and ORPH in the remaining groundwater samples were below the laboratory reporting limit and/or MTCA Method A cleanup level.
- GRPH concentrations were below the laboratory reporting limit and/or MTCA Method A cleanup level in all groundwater samples collected.

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 MW13, 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 originating from the April and May 2016 injection event, and the reported concentrations should not be considered accurate. Additionally, the detection of DRPH in the groundwater sample collected from monitoring well MW21 during the second quarter of 2021 was flagged by the laboratory as estimated due to the analyte response exceeding the valid instrument calibration range.

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 OF PLUME STABILITY

Using Ecology's *Guidance on Remediation of Petroleum-Contaminated Groundwater by Natural Attenuation* dated July 2005 (Module 2), SoundEarth evaluated the stability of the contaminated groundwater plume originating from the Property. Chlorinated solvent results (PCE, TCE, cis-1,2-DCE, and VC) for groundwater samples collected between May 2015 and December 2021 (Table 2) were used to evaluate the stability of the plume. The data results from the plume stability analysis are presented in Attachment B.

The stability of the CVOC groundwater plume beneath and downgradient of the Property was evaluated to assess if the plume is expanding, shrinking, or has reached steady state (stable). A shrinking or stable

plume indicates that the plume is attenuating as a result of the source removal at the Property and intrinsic biodegradation, as well as groundwater treatment implemented at the Property and in the adjacent ROWs. For the purposes of this report, stability of the CVOC plume originating at the Property is evaluated separately with respect to PCE/TCE and cis-1,2-DCE/VC.

Plume Stability—PCE and TCE

Results from the PCE and TCE trend analyses were evaluated in conjunction with the current footprint of the PCE and TCE components of the CVOC plume originating at the Property. The trend analyses were performed on groundwater analytical results gathered from May 2015 to December 2021. Trend analyses were only performed for monitoring wells with CVOC concentrations exceeding cleanup levels in fourth quarter 2021.

PCE concentrations exceeding the cleanup level at the Site remain in the Thomas Street ROW only, while concentrations of TCE exceeding the cleanup level remain in the Thomas Street, Boren Avenue North, and Harrison Street ROWs (Figure 5). Trend analyses show that the concentrations of PCE and TCE are stable off of the Property in the Thomas Street, Boren Avenue North, and Harrison Street ROWs (monitoring wells MW04, MW07, MW13, and MW26 through MW29). These conditions suggest that the extents of PCE and TCE concentrations in the Thomas Street, Boren Avenue North, and Harrison Street ROWs have reached steady state. Steady state indicates that there is currently a balance between the PCE and TCE in groundwater, which have desorbed from soil grains into the dissolved phase, and that mass removal of contaminants from the groundwater has occurred by natural attenuation processes.

Plume Stability—cis-1,2-DCE and VC

Results from 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 impacts in groundwater. In general, the concentrations of cis-1,2-DCE and/or VC on the Property north of monitoring well MW22 are increasing as expected, while residual low-level concentrations of PCE and TCE are likely degrading to these daughter products under reducing conditions in groundwater (i.e., via an anaerobic reductive dechlorination pathway). Trend analyses were only performed for monitoring wells with CVOC concentrations exceeding cleanup levels in fourth quarter 2021.

cis-1,2-DCE and/or VC concentrations exceeding cleanup levels remain in groundwater on the Property and in the Thomas Street ROW (Figure 6). At on-Property monitoring wells MW-22 through MW-24 and MW35 and injection wells IW04, IW51, and IW61, concentrations of cis-1,2-DCE and VC are stable or expanding in the groundwater. These results suggest ongoing anerobic degradation of low concentrations of PCE and TCE (below the laboratory reporting limit) is occurring in groundwater on the Property. The results also suggest that TCE migrating onto the Property from within or beyond the Boren Avenue North ROW continues to act as a source for the formation of cis-1,2-DCE and VC on the Property.

Trend analysis for monitoring well MW28, located in the Thomas Street ROW, shows that the concentration of cis-1,2-DCE is declining with time. The concentrations of VC in groundwater samples from this monitoring well have not been reported above the laboratory reporting limit since the second quarter of 2020. The decline in the concentration of cis-1,2-DCE and absence of VC is expected because aerobic conditions are present in groundwater in the vicinity of off-Property monitoring wells MW28 through MW30. This condition is conducive to the degradation (direct oxidation) of cis-1,2-DCE and VC.

VC has not been reported above laboratory reporting limits in groundwater samples collected from monitoring wells MW29 and MW30 since the second quarter of 2020.

CONCLUSIONS

Results from analysis of plume stability indicate that the footprint of PCE and TCE in on-Property groundwater decreased considerably following implementation of the groundwater treatment in 2015. As of the fourth quarter 2021, concentrations of PCE and TCE are below current cleanup levels in all on-Property monitoring wells. As predicted, and because of groundwater treatment via anaerobic reductive dechlorination of PCE and TCE, the footprint of the cis-1,2-DCE and VC has increased, primarily on the Property. Although concentrations of cis-1,2-DCE and VC continue to exceed current cleanup levels, it is anticipated that concentrations will decrease when PCE and TCE mass has been depleted in groundwater at the Property.

The transport of PCE and its degradation products in the groundwater from the Troy Property to the Thomas Street ROW and to the former Seattle Times Site has been attenuated as a result of groundwater treatment and natural attenuation processes. This attenuation is evidenced by the stable footprint of the CVOC plume in the Thomas Street ROW and on the former Seattle Times Site over time. The stability of the CVOC plume in this area of the Site indicates that additional investigation is not needed to define the southern extent of the CVOC plume, which is defined in the Remedial Investigation Report by the absence of detectable concentrations of CVOCs in the groundwater at monitoring wells ONNI-MW-4 and ONNI-MW-5. Since the addition of monitoring well ONNI-MW-9 to the monitoring well network, the downgradient extent of CVOC plume is now defined by the absence of CVOCs above laboratory reporting limits and/or groundwater cleanup levels at monitoring well ONNI-MW-9 (Figure 6).

Under the approved PPCD sampling schedule for the monitoring well network, monitoring wells will continue to be sampled semiannually in the second and fourth quarters of 2022.

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.

Clare Tochilin, LG
Associate Geologist

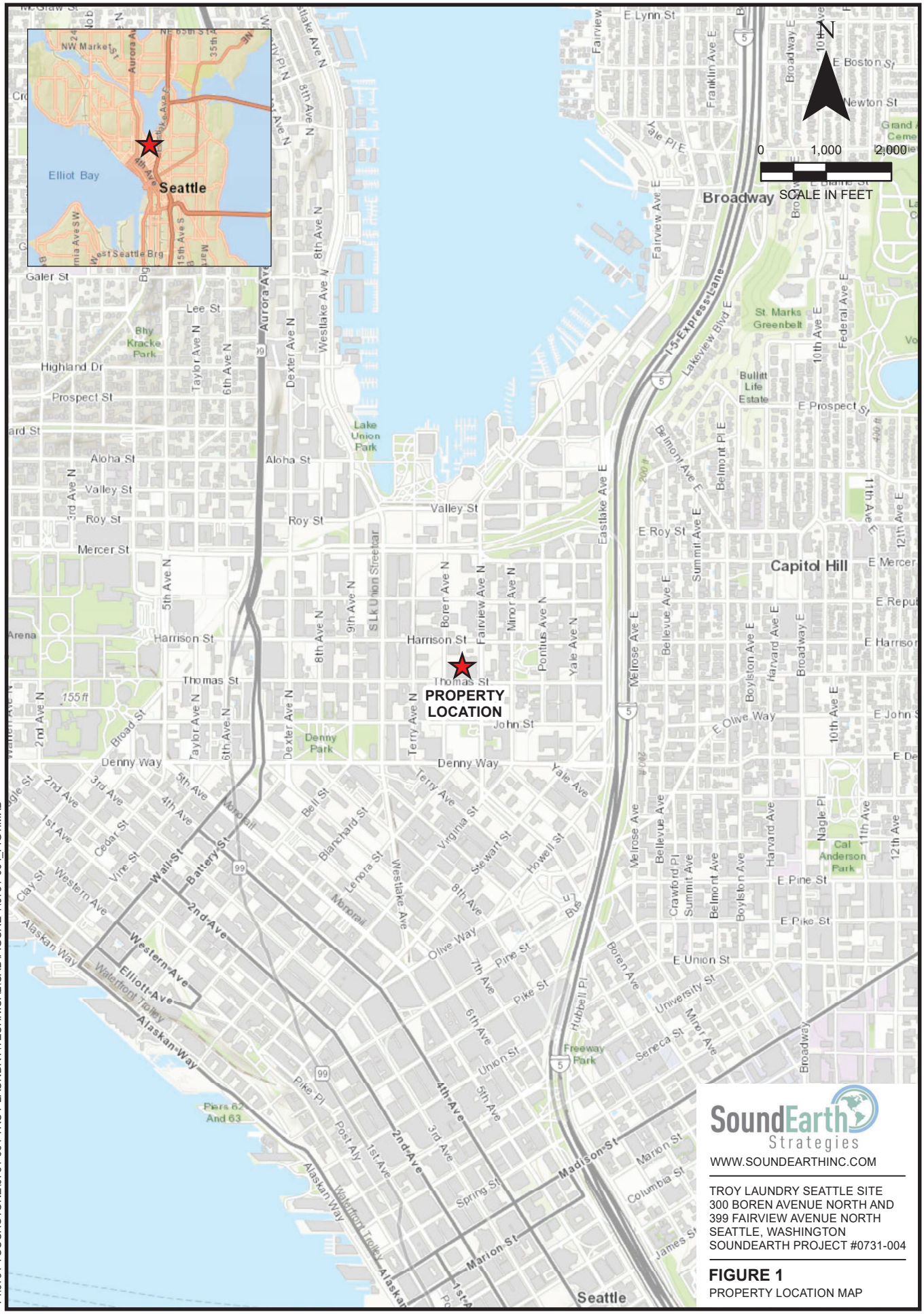
Levi Fernandes, PE
Senior Environmental Engineer

Thomas Cammarata, LG, LHG
Principal Geochemist

Attachments:
Figure 1, Property Location Map
Figure 2, Groundwater Contour Map with Rose Diagram (June 22, 2021)
Figure 3, Groundwater Contour Map with Rose Diagram (December 14, 2021)
Figure 4, Groundwater Analytical Results for Chlorinated Volatile Organic Compounds
Figure 5, Extent of Troy Property PCE and TCE Concentrations in Groundwater – Post-Interim Remedial Action (Q4 2021)
Figure 6, Extent of Troy Property VC/cis-1,2-DCE Concentrations in Groundwater – Post-Interim Remedial Action (Q4 2021)
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
A, Laboratory Analytical Reports
- May 2021 Supplemental Sampling
  - *Friedman & Bruya, Inc. #105414*
- Second Quarter 2021
  - *Friedman & Bruya, Inc. #106462*
  - *Friedman & Bruya, Inc. #106463*
  - *Friedman & Bruya, Inc. #106488*
  - *Friedman & Bruya, Inc. #106489*
  - *Fremont Analytical, #2106475*
  - *Fremont Analytical, #2106490*
  - *Fremont Analytical, #2106491*
  - *SiREM Lab, #S-8169*
- August 2021 Supplemental Sampling
  - *Friedman & Bruya, Inc. #108261*
- September 2021 Supplemental Sampling
  - *Friedman & Bruya, Inc. #109355*
- Fourth Quarter 2021
  - *Friedman & Bruya, Inc. #112310 amended*
  - *Friedman & Bruya, Inc. #112311 amended*
  - *Friedman & Bruya, Inc. #112344*
  - *Friedman & Bruya, Inc. #112373*
  - *Friedman & Bruya, Inc. #112374 amended*
  - *Fremont Analytical, #2112279*
  - *Fremont Analytical, #2112310*
  - *Fremont Analytical, #2112337*
  - *Fremont Analytical, #2112338*
  - *SiREM Lab, #S-8782*

B, Plume Stability Analysis Results

FIGURES



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

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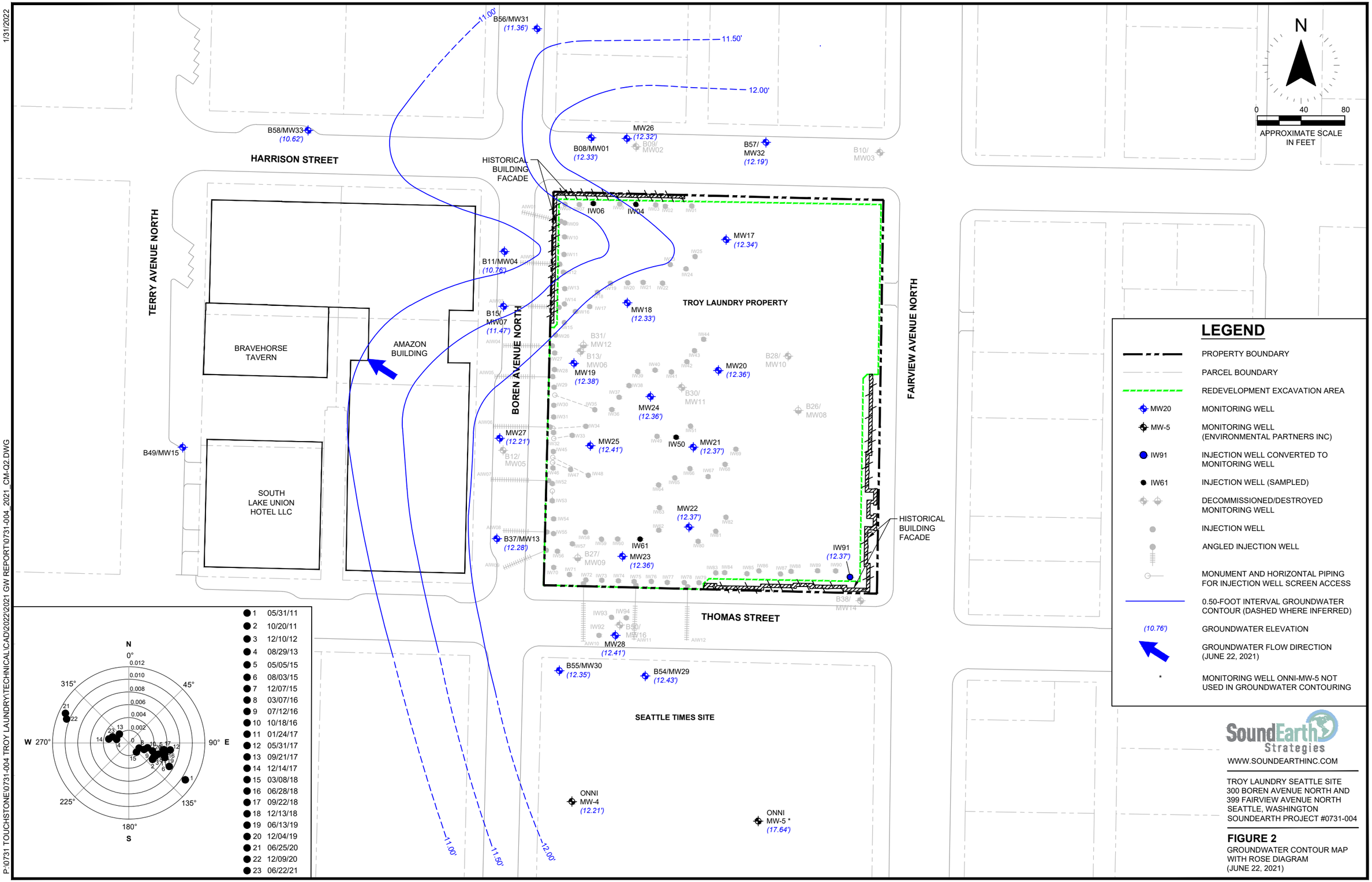
TROY LAUNDRY SEATTLE SITE
300 BOREN AVENUE NORTH AND
399 FAIRVIEW AVENUE NORTH
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 1
PROPERTY LOCATION MAP

1/31/2022

P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\20222021 GW REPORT\0731-004_2021_CM-Q2.DWG



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

FIGURE 2
GROUNDWATER CONTOUR MAP
WITH ROSE DIAGRAM
(JUNE 22, 2021)

1/31/2022

P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\20222021 GW REPORT\0731-004_2021_CM-Q4.DWG

B56/MW31 (15.03')

15.00'

14.50'

14.00'

13.50'

B58/MW33 (14.92')

HARRISON STREET

B08/MW01 (13.86')

MW26 (13.58')

B59/MW02

B57/MW32 (13.45')

B10/MW03

HISTORICAL BUILDING FACADE

IW06

IW04

MW17 (13.60')

TERRY AVENUE NORTH

B11/MW04 (14.88')

14.50'

TROY LAUNDRY PROPERTY

B15/MW07 (14.46')

MW18 (13.53')

BRAVEHORSE TAVERN

AMAZON BUILDING

BOREN AVENUE NORTH

B31/MW12

B13/MW06

MW19 (13.56')

MW20 (13.51')

B28/MW10

FAIRVIEW AVENUE NORTH

B30/MW11

MW24 (13.51')

B26/MW08

MW34

B49/MW15

14.00'

MW27 (13.50')

B12/MW05

MW25 (13.60')

IW50

MW21 (13.50')

SOUTH LAKE UNION HOTEL LLC

MW22 (13.53')

B37/MW13 (13.65')

IW61

MW23 (13.54')

B27/MW09

IW91 (13.51')

HISTORICAL BUILDING FACADE

THOMAS STREET

MW28 (13.69')

B55/MW30 (13.66')

B54/MW29 (13.63')

13.50'

SEATTLE TIMES SITE

ONNI MW-9 (13.50')

ONNI MW-4 (13.41')

ONNI MW-5 (18.74')

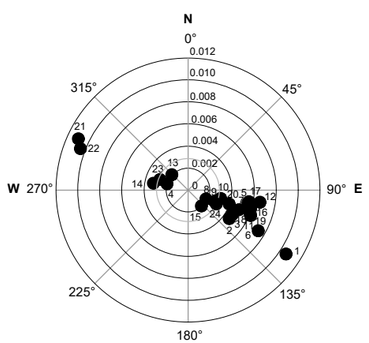
N

0 40 80

APPROXIMATE SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- MW20 — MONITORING WELL
- MW-5 — MONITORING WELL (ENVIRONMENTAL PARTNERS INC)
- 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
- 0.50-FOOT INTERVAL GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- (10.76') — GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION (DECEMBER 14, 2021)
- * — MONITORING WELL ONNI-MW-5 NOT USED IN GROUNDWATER CONTOURING



1	05/31/11	
2	10/20/11	
3	12/10/12	
4	08/29/13	
5	05/05/15	
6	08/03/15	
7	12/07/15	
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	
21	06/25/20	
22	12/09/20	
23	06/22/21	
24	12/14/21	

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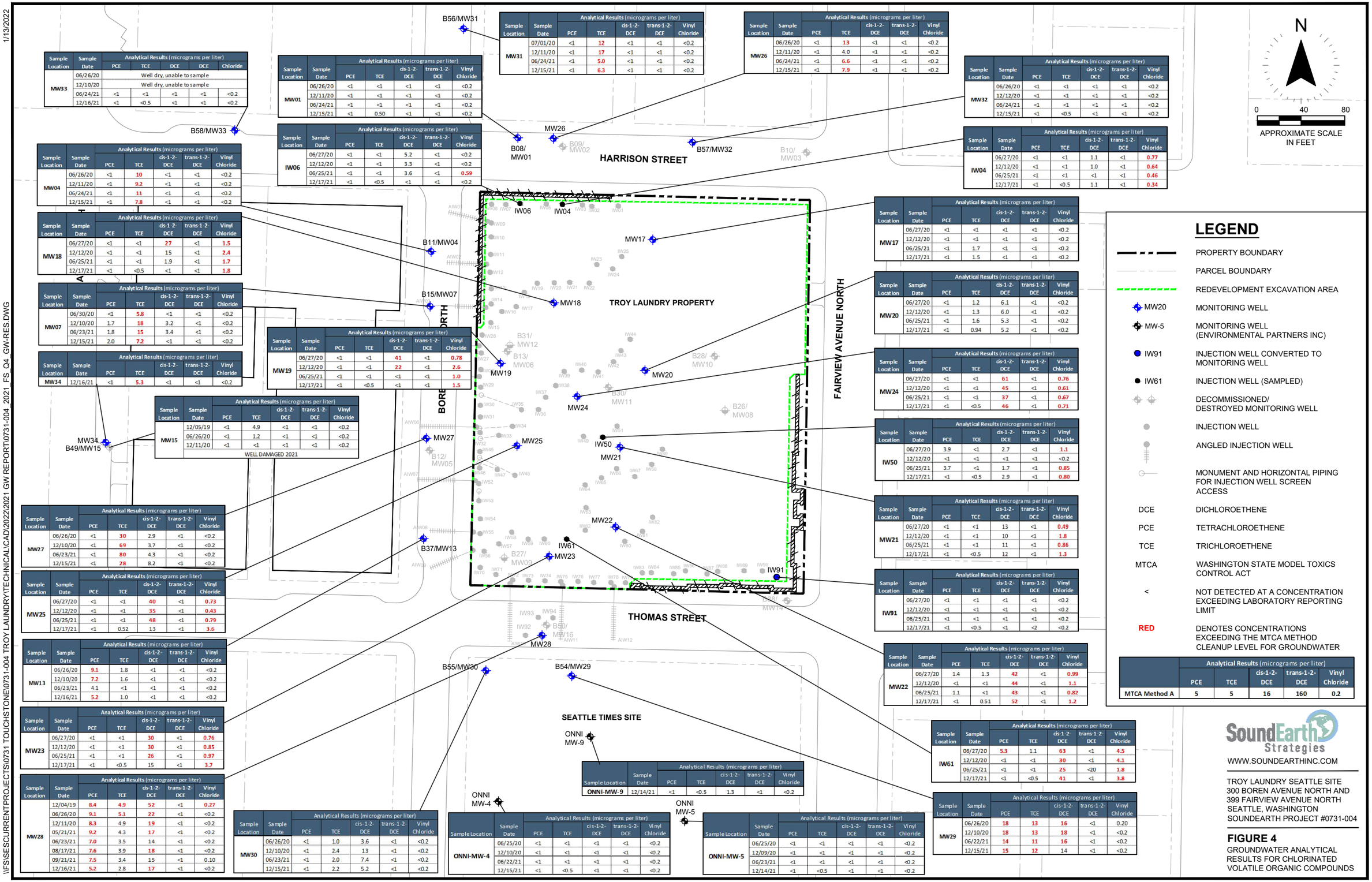
FIGURE 3
GROUNDWATER CONTOUR MAP WITH ROSE DIAGRAM (DECEMBER 14, 2021)



Sample Location	Sample Date	Analytical Results (micrograms per liter) PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW33	06/26/20	Well dry, unable to sample				
	12/10/20	Well dry, unable to sample				
	06/24/21	<1	<1	<1	<1	<0.2
	12/16/21	<1	<0.5	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW01	06/26/20	<1	<1	<1	<1	<0.2
	12/11/20	<1	<1	<1	<1	<0.2
	06/24/21	<1	<1	<1	<1	<0.2
	12/15/21	<1	0.50	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
IW06	06/27/20	<1	<1	5.2	<1	<0.2
	12/12/20	<1	<1	3.3	<1	<0.2
	06/25/21	<1	<1	3.6	<1	0.59
	12/17/21	<1	<0.5	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW31	07/01/20	<1	12	<1	<1	<0.2
	12/11/20	<1	17	<1	<1	<0.2
	06/24/21	<1	5.0	<1	<1	<0.2
	12/15/21	<1	6.3	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW26	06/26/20	<1	13	<1	<1	<0.2
	12/11/20	<1	4.0	<1	<1	<0.2
	06/24/21	<1	6.6	<1	<1	<0.2
	12/15/21	<1	7.9	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW32	06/26/20	<1	<1	<1	<1	<0.2
	12/12/20	<1	<1	<1	<1	<0.2
	06/24/21	<1	<1	<1	<1	<0.2
	12/15/21	<1	<0.5	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
IW04	06/27/20	<1	<1	1.1	<1	0.77
	12/12/20	<1	<1	1.0	<1	0.64
	06/25/21	<1	<1	<1	<1	0.46
	12/17/21	<1	<0.5	1.1	<1	0.34

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW04	06/26/20	<1	10	<1	<1	<0.2
	12/11/20	<1	9.2	<1	<1	<0.2
	06/24/21	<1	11	<1	<1	<0.2
	12/15/21	<1	7.8	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW18	06/27/20	<1	<1	27	<1	1.5
	12/12/20	<1	<1	15	<1	2.4
	06/25/21	<1	<1	1.9	<1	1.7
	12/17/21	<1	<0.5	<1	<1	1.8

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW07	06/30/20	<1	5.8	<1	<1	<0.2
	12/10/20	1.7	18	3.2	<1	<0.2
	06/23/21	1.8	15	3.4	<1	<0.2
	12/15/21	2.0	7.2	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW34	12/16/21	<1	5.3	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW19	06/27/20	<1	<1	41	<1	0.78
	12/12/20	<1	<1	22	<1	2.6
	06/25/21	<1	<1	<1	<1	1.0
	12/17/21	<1	<0.5	<1	<1	1.5

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW15	12/05/19	<1	4.9	<1	<1	<0.2
	06/26/20	<1	1.2	<1	<1	<0.2
	12/11/20	<1	<1	<1	<1	<0.2
	WELL DAMAGED 2021					

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW17	06/27/20	<1	<1	<1	<1	<0.2
	12/12/20	<1	<1	<1	<1	<0.2
	06/25/21	<1	1.7	<1	<1	<0.2
	12/17/21	<1	1.5	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW20	06/27/20	<1	1.2	6.1	<1	<0.2
	12/12/20	<1	1.3	6.0	<1	<0.2
	06/25/21	<1	1.6	5.3	<1	<0.2
	12/17/21	<1	0.94	5.2	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW24	06/27/20	<1	<1	61	<1	0.76
	12/12/20	<1	<1	45	<1	0.61
	06/25/21	<1	<1	37	<1	0.67
	12/17/21	<1	<0.5	46	<1	0.71

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
IW50	06/27/20	3.9	<1	2.7	<1	1.1
	12/12/20	<1	<1	<1	<1	<0.2
	06/25/21	3.7	<1	1.7	<1	0.85
	12/17/21	<1	<0.5	2.9	<1	0.80

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW21	06/27/20	<1	<1	13	<1	0.49
	12/12/20	<1	<1	10	<1	1.8
	06/25/21	<1	<1	11	<1	0.86
	12/17/21	<1	<0.5	12	<1	1.3

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
IW91	06/27/20	<1	<1	<1	<1	<0.2
	12/12/20	<1	<1	<1	<1	<0.2
	06/25/21	<1	<1	<1	<1	<0.2
	12/17/21	<1	<0.5	<1	<2	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW22	06/27/20	1.4	1.3	42	<1	0.99
	12/12/20	<1	<1	44	<1	1.1
	06/25/21	1.1	<1	43	<1	0.82
	12/17/21	<1	0.51	52	<1	1.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW27	06/26/20	<1	30	2.9	<1	<0.2
	12/10/20	<1	69	3.7	<1	<0.2
	06/23/21	<1	80	4.3	<1	<0.2
	12/15/21	<1	28	8.2	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW25	06/27/20	<1	<1	40	<1	0.73
	12/12/20	<1	<1	35	<1	0.43
	06/25/21	<1	<1	48	<1	0.79
	12/17/21	<1	0.52	13	<1	3.6

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW13	06/26/20	9.1	1.8	<1	<1	<0.2
	12/10/20	7.2	1.6	<1	<1	<0.2
	06/23/21	4.1	<1	<1	<1	<0.2
	12/16/21	5.2	1.0	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW23	06/27/20	<1	<1	30	<1	0.76
	12/12/20	<1	<1	30	<1	0.85
	06/25/21	<1	<1	26	<1	0.97
	12/17/21	<1	<0.5	15	<1	3.7

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW28	12/04/19	8.4	4.9	52	<1	0.27
	06/26/20	9.1	5.1	22	<1	<0.2
	12/11/20	8.3	4.9	19	<1	<0.2
	05/21/21	9.2	4.3	17	<1	<0.2
	06/23/21	7.0	3.5	14	<1	<0.2
	08/17/21	7.6	3.9	18	<1	<0.2
	09/21/21	7.5	3.4	15	<1	0.10
	12/16/21	5.2	2.8	17	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW30	06/26/20	<1	1.0	3.6	<1	<0.2
	12/10/20	<1	2.4	13	<1	<0.2
	06/23/21	<1	2.0	7.4	<1	<0.2
	12/15/21	<1	2.2	5.2	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
ONNI-MW-9	12/14/21	<1	<0.5	1.3	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
ONNI-MW-4	06/25/20	<1	<1	<1	<1	<0.2
	12/10/20	<1	<1	<1	<1	<0.2
	06/22/21	<1	<1	<1	<1	<0.2
	12/15/21	<1	<0.5	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
ONNI-MW-5	06/25/20	<1	<1	<1	<1	<0.2
	12/09/20	<1	<1	<1	<1	<0.2
	06/23/21	<1	<1	<1	<1	<0.2
	12/14/21	<1	<0.5	<1	<1	<0.2

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
IW61	06/27/20	5.3	1.1	63	<1	4.5
	12/12/20	<1	<1	30	<1	4.1
	06/25/21	<1	<1	25	<20	1.8
	12/17/21	<1	<0.5	41	<1	3.8

Sample Location	Sample Date	PCE	TCE	cis-1-2-DCE	trans-1-2-DCE	Vinyl Chloride
MW29	06/26/20	18	13	16	<1	0.20
	12/10/20	18	13	18	<1	<0.2
	06/22/21	14	11	16	<1	<0.2
	12/15/21	15	12	14	<1	<0.2

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- MW20 — MONITORING WELL
- MW-5 — MONITORING WELL (ENVIRONMENTAL PARTNERS INC)
- 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

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

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FIGURE 4
GROUNDWATER ANALYTICAL RESULTS FOR CHLORINATED VOLATILE ORGANIC COMPOUNDS

1/13/2022

\\FS\SESCURRENTPROJECTS\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\20222021 GW REPORT\0731-004_2021FS_Q4_PCE-POST.DWG

N

0 40 80

APPROXIMATE SCALE IN FEET

B56/MW31

B58/MW33

B08/MW01

MW26

B09/ MW02

B57/MW32

B10/ MW03

HARRISON STREET

HISTORICAL BUILDING FACADE

IW06

IW04

TERRY AVENUE NORTH

B11/MW04

MW17

TROY LAUNDRY PROPERTY

B15/MW07

MW18

BRAVEHORSE TAVERN

AMAZON BUILDING

BOREN AVENUE NORTH

B31/ MW12

B13/ MW06

MW19

MW20

B28/ MW10

MW24

B30/ MW11

B26/ MW08

MW34

B49/MW15

MW27

B12/ MW05

MW25

IW50

MW21

SOUTH LAKE UNION HOTEL LLC

MW22

IW61

B37/MW13

B27/ MW09

MW23

IW91

HISTORICAL BUILDING FACADE

FAIRVIEW AVENUE NORTH

B38/ MW14

THOMAS STREET

B50/ MW16

MW28

B54/MW29

B55/MW30

ONNI MW-9

SEATTLE TIMES SITE

ONNI MW-4

ONNI MW-5

LEGEND

	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	REDEVELOPMENT EXCAVATION AREA
MW20	MONITORING WELL
MW-5	MONITORING WELL (NOT SAMPLED) (ENVIRONMENTAL PARTNERS INC)
IW91	INJECTION WELL CONVERTED TO MONITORING WELL
IW61	INJECTION WELL (SAMPLED)
	DECOMMISSIONED/DESTROYED MONITORING WELL
	APPROXIMATE EXTENTS OF POST-TREATMENT PCE AND TCE PLUME ABOVE MTCA CLEANUP LEVEL ORIGINATING FROM THE TROY PROPERTY
	DENOTES PCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
	DENOTES TCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
CVOC	CHLORINATED VOLATILE ORGANIC COMPOUND
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
MTCA	WASHINGTON STATE MODEL TOXICS CONTROL ACT

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399 FAIRVIEW AVENUE NORTH
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FIGURE 5

EXTENT OF TROY PROPERTY PCE AND TCE GROUNDWATER PLUME - POST-INTERIM REMEDIAL ACTION (Q4 2021)

1/13/2022

\\FS1\SE\CURRENT PROJECTS\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\2022\2021 GW REPORT\0731-004_2021FS_Q4_VC-POST.DWG

N

0 40 80

APPROXIMATE SCALE IN FEET

B56/MW31

B58/MW33

B08/MW01

MW26

B09/ MW02

B57/MW32

B10/ MW03

HARRISON STREET

HISTORICAL BUILDING FACADE

TERRY AVENUE NORTH

BOREN AVENUE NORTH

FAIRVIEW AVENUE NORTH

TROY LAUNDRY PROPERTY

B11/MW04

B15/MW07

BRAVEHORSE TAVERN

AMAZON BUILDING

B49/MW15

SOUTH LAKE UNION HOTEL LLC

B37/MW13

B12/ MW05

MW27

IW06

IW04

MW17

MW18

B31/ MW12

B13/ MW06

MW19

MW20

B28/ MW10

MW24

B30/ MW11

B26/ MW08

IW50

MW25

MW21

MW22

IW61

MW23

IW91

HISTORICAL BUILDING FACADE

B27/ MW09

B38/ MW14

THOMAS STREET

B59/ MW16

MW28

B54/MW29

B55/MW30

ONNI MW-9

SEATTLE TIMES SITE

ONNI MW-4

ONNI MW-5

LEGEND

	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	REDEVELOPMENT EXCAVATION AREA
MW20	MONITORING WELL
MW-5	MONITORING WELL (NOT SAMPLED) (ENVIRONMENTAL PARTNERS INC)
IW91	INJECTION WELL CONVERTED TO MONITORING WELL
IW61	INJECTION WELL (SAMPLED)
	DECOMMISSIONED/DESTROYED MONITORING WELL
	APPROXIMATE EXTENTS OF POST-TREATMENT VC/cis-1,2-DCE PLUME ABOVE MTCA CLEANUP LEVEL ORIGINATING FROM THE TROY PROPERTY
	DENOTES VC/cis-1,2-DCE CONCENTRATIONS EXCEED APPLICABLE MTCA CLEANUP LEVEL
CVOC	CHLORINATED VOLATILE ORGANIC COMPOUND
DCE	DICHLOROETHENE
VC	VINYL CHLORIDE
MTCA	WASHINGTON STATE MODEL TOXICS CONTROL ACT

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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 (Q4 2021)

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

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
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

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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
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

Table 1
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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)
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
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

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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)
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
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

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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)
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
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
	70.82					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

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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
	74.68					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

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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
	90.86					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
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
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

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Seattle, Washington

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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
	WELL DAMAGED 2021							
MW34	TBD	40	55	TBD	TBD	12/14/21	NM	NM
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							
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

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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
	68.82					05/05/15	58.11	10.71
						08/03/15	INACCESSIBLE	
						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
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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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)
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
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
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
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
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
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
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
ONNI-MW-9	107.10	95	110	12	-3	12/14/21	93.60	13.50
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

TBD = to be determined

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**[ve]	<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
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**
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**
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
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	10	<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**
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)
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**
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**
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)			<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**
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)
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
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
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
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)
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**
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**[ca]
	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**
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
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)
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
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							
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
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)
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[cf]	1.7[cf]	<1[cf]	<1[cf]	<0.2[cf]
	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
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
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
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
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)
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							
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
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
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							
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)
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
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
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
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
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
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
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
ONNI-MW-9	ONNI-MW-9-20211214	12/14/21	SoundEarth	<1	<0.5	1.3	<1	<0.2
North-Adjoining Property								
SLU-MW01	MW01-20120229	02/29/12[4]	SoundEarth	<1	<1	<1	<1	<0.2
	DECOMMISSIONED 2013							
SLU-MW02	MW02-20120229	02/29/12[4]	SoundEarth	<1	<1	<1	<1	<0.2
	DECOMMISSIONED 2013							
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.

[1]Analyzed by EPA Method 8260C, 8021B, or 8240.

[2]MTCA Method A Cleanup Levels, Table 720-1 of Section 900 of Chapter 173-340 of WAC, revised November 2007.

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

[4]Sample data compiled from reports on file at the Washington State Department of Ecology.

Laboratory Notes:

[ca]The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

[cf]The sample was centrifuged prior to analysis.

[ve]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.

[~]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 2A
Summary of Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Groundwater CVOCs Analytical Results[1]

Sampling Event		On-Property Wells																																																					
		MW17				MW18				MW19				MW20				MW21				MW22				MW23				MW24				MW25				IW04				IW06				IW50				IW61				IW91			
Year	Quarter	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC
2015	2																																																								
	3																																																								
	4																																																								
2016	1																																																								
	3																																																								
	4																																																								
2017	1																																																								
	2																																																								
	3																																																								
	4																																																								
2018	1																																																								
	2																																																								
	3																																																								
	4																																																								
2019	2																																																								
	4																																																								
2020	2																																																								
	4																																																								
2021	2																																																								
	4																																																								

Sampling Event		Boren Avenue North																				Terry Avenue North								Thomas Street								Harrison Street																South-Adjoining Property								ONNI Property											
		MW04				MW07				MW13				MW27				MW31				MW15[4]				MW34[4]				MW16[3]				MW28[3]				MW01				MW26				MW32				MW33				MW29				MW30				ONNI-MW-4				ONNI-MW-5				ONNI-MW-9			
Year	Quarter	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC	PCE	TCE	DCE[2]	VC
2015	2																																																																								
	3																																																																								
	4																																																																								
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NOTES:

Denotes CVOC concentration does not exceed the Applicable MTCA cleanup level.

Denotes CVOC concentration exceeds the applicable MTCA cleanup level.

Denotes well not sampled and/or inaccessible.

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

No trans-1,2-DCE has been detected above the reporting limit for samples collected at this site.

[1]Samples analyzed by EPA Method 8260C.

[2]DCE refers to the greater concentration of cis-1,2-DCE.

[3]Monitoring well MW16 destroyed during ROW construction in 2018, and replacement well MW28 installed.

CVOC = chlorinated volatile organic compound

DCE = dichloroethene

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethene

ROW = right-of-way

TCE = trichloroethene

VC = vinyl chloride

VOC = volatile organic compound

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[x]	<250	<100	<1	<1	<1	<3
	MW06-20111011	10/10/11	SoundEarth	83[x]	<250	<100	<1	<1	<1	<3
	MW06-20130909	09/09/13	SoundEarth	150[x]	<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[x]	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED 2013									
MW09	MW09-20111013	10/13/11	SoundEarth	240[x]	<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[x]	<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[x]	<250	<100	<1	<1	<1	<3
	MW11-20130909	09/09/13	SoundEarth	97[x]	<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 ip	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 ip	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 ip	150	<0.35	<1	<1	<3
	MW19-20171216	12/16/17	SoundEarth	9,700 x, ip	<2,500 ip	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 ip	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]**

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)
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, lp]	**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	--	--	--	--
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
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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	--	--	--	--
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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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[ip]	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[ip]	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]**

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)
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[x]	<250	<100	<0.35	<1	<1	<3
	MW99-20160308(DUP)			160[x]	<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[x]	<250	<100	<1	<1	<1	<3
	MW99-20191207 (DUP)			300[x]	<250	<100	<1	<1	<1	<3
	MW25-20200627	06/27/20	SoundEarth	130[x]	<250	<100	<1	<1	<1	<3
	MW99-20200627 (DUP)			190[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)
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[x]	<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[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)
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[x]	<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[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]**
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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Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
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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)
MW07	MW07-20110531	05/31/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW07-20111012	10/12/11	SoundEarth	240[x]	<250	<100	<1	<1	<1	<3
	MW07-20130909	09/09/13	SoundEarth	120[x]	<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[x]	<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[x]	<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[cf]	<1[cf]	<1[cf]	<3[cf]
	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[x]	<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[x]	<300	<100	<1	<1	<1	<3
	MW13-20211216	12/16/21	SoundEarth	<50	<250	<100	--	--	--	--
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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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[x]	<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]**

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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)
Thomas Street										
MW14	MW14-20111020	10/20/11	SoundEarth	160[x]	<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[x]	<250	640	<0.35	<1	<1	1.1
	MW16-20130911	09/11/13	SoundEarth	170[x]	<250	110	<1	<1	<1	<3
	MW16-20150508	05/08/15	SoundEarth	150[x]	<250	<100	<0.35	<1	<1	<3
	MW16-20150805	08/05/15	SoundEarth	210[x]	<250	<100	<0.35	<1	<1	<3
	MW16-20151210	12/10/15	SoundEarth	420[x]	<250	110	<0.35	<1	<1	<3
	MW16-20160308	03/08/16	SoundEarth	410[x]	<250	140	<0.35	<1	<1	<3
	MW16-20160712	07/12/16	SoundEarth	**510**[x]	<250	130	<0.35	<1	<1	<3
	MW16-20161019	10/19/16	SoundEarth	310[x]	<250	<100	--	--	--	--
	MW16-20170125	01/25/17	SoundEarth	140[x]	<250	<100	<0.35	<1	<1	<3
	MW16-20170531	05/31/17	SoundEarth	**740**[x]	<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[x]	<250	120	<0.35	<1	<1	<3
	MW16-20180309	03/09/18	SoundEarth	260[x]	<250	120	<1	<1	<1	<3
	WELL DAMAGED 2018									
MW28	MW28-20190613	06/13/19	SoundEarth	140[x]	<250	160	<1	<1	<1	<3
	MW28-20191205	12/05/19	SoundEarth	98[x]	<250	150	<1	<1	<1	<3
	MW28-20200626	06/26/20	SoundEarth	120[x]	<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[x]	<250	<100	<1	<1	<1	<3
	MW28-20211216	12/16/21	SoundEarth	190[x]	600	<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[x]	<250	<100	<1	<1	<1	<3
MW02	MW02-20110525	05/25/11	SoundEarth	100[x]	<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									
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4] [5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**
MW03	MW03-20110527	05/27/11	SoundEarth	130[x]	<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[x]	<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**[x]	<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[x]	<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
MTCA Cleanup Level				**500[(4)]**	**500[(4)]**	**1,000/800[(4) (5)]**	**5[(4)]**	**1,000[(4)]**	**700[(4)]**	**1,000[(4)]**
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 Section 900 of Chapter 173-340 of WAC, revised November 2007.

[(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:

[cf]The sample was centrifuged prior to analysis.

[ip]Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

[ve]The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

[x]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)
Troy Laundry Property													
MW18	MW18-20150506	05/06/15	1.99	16.2	5.44	83.7	0.0919	0.0400	0.0519	47.0	<5	<10	<10
	MW18-20150803	08/03/15	2.66	--	--	--	--	--	--	--	--	--	--
	MW18-20151208	12/08/15	1.64	--	--	--	--	--	--	43.6	<5	<10	<10
	MW18-20160714	07/14/16	0.47	--	--	--	--	--	--	1.54	170	<10	<10
	MW18-20170126	01/26/17	1.50	--	--	--	--	--	--	--	2,200	<10	<10
	MW18-20170601	06/01/17	0.58	19.2[D]	--	--	--	--	--	--	3,500	<10	<10
	MW18-20170923	09/23/17	0.48	15.4[D]	--	--	--	--	--	--	3,900	<10	<10
	MW18-20171216	12/16/17	0.77	21.5[D]	--	--	--	--	--	--	2,400	<10	<10
	MW18-20180310	03/10/18	0.38	19.0[D]	--	--	--	--	--	--	4,700	<10	<10
	MW18-20180630	06/30/18	0.68	17.0[D]	--	--	--	--	--	--	6,300	<10	<10
	MW18-20180922	09/22/18	0.19	17.4[D]	--	--	--	--	--	--	4,200[ve]	<10	<10
	MW18-20181215	12/15/18	0.62	--	<1.00[D,H]	10,800	12.300	<0.0500[H]	--	<3.00[D]	6,400	<10	<10
	MW18-20190615	06/15/19	0.30	--	<0.100[H]	10,100	13.500	8.35[DH]	--	0.422[H]	5,290[D]	<809[D]	<757[D]
	MW18-20191207	12/07/19	0.69	--	<0.100[H]	9,660	13.800	15.6[DH]	--	<0.300	2,230[D]	<16.2	<15.1
	MW18-20200627	06/27/20	0.18	--	<0.100[H]	8,960	14.300	19.9[DH]	--	0.479	5,520[D]	<16.2	<15.1
	MW18-20201212	12/12/20	2.98	--	<0.100[H]	7,980	12.900	17.6[DH]	--	6.23	8,780[D]	<16.2	<15.1
	MW18-20210625	06/25/21	0.91	--	--	8,900	13.900	16.3[DH]	--	<3.00[D]	5,190[D]	<15.1	<14.6
	MW18-20211217	12/17/21	0.13	--	<0.100[H]	9,610	15.700	11.0[DH]	--	<0.600	8,110[D]	<15.1	<14.6
MW19	MW19-20150507	05/07/15	1.75	15.9	4.98	71.6	0.156	<0.0300	0.156	50.3	<5	<10	<10
	MW19-20150803	08/03/15	2.33	--	--	--	--	--	--	--	--	--	--
	MW19-20190615	06/15/19	0.28	--	<0.100[H]	11,400	10.000	7.81[DH]	--	0.380[H]	2,530[D]	<324[D]	<303[D]
	MW19-20191207	12/07/19	0.54	--	<0.100[H]	9,030	13.300	12.6[DH]	--	<0.300	6,520[D]	<16.2	<15.1
	MW19-20200627	06/27/20	0.27	--	<0.100[H]	14,000	18.100	24.3[DH]	--	0.550	3,410[D]	<16.2	<15.1
	MW19-20201212	12/12/20	11.88*	--	<0.100[H]	14,400	16.700	22.3[DH]	--	1.15	9,010[D]	<16.2	<15.1
	MW19-20210625	06/25/21	0.81	--	--	15,200	18.200	14.5[DH]	--	<2.40[D]	5,840[D]	<15.1	<14.6
	MW19-20211217	12/17/21	0.08	--	<0.200[D,H]	12,600	15.900	14.1[DH]	--	<1.20[D]	6,600[D]	<15.1	<14.6
MW21	MW21-20170601	06/01/17	0.54	26.2[D]	--	--	--	--	--	--	3,500	<10	<10
	MW21-20170923	09/23/17	0.69	33.5[D]	--	--	--	--	--	--	4,000	<10	<10
	MW21-20171216	12/16/17	2.67	85.7[D]	--	--	--	--	--	--	4,800	<10	<10
	MW21-20180310	03/10/18	0.71	89.2[D]	--	--	--	--	--	--	5,400	<10	<10
	MW21-20180630	06/30/18	0.34	124[D]	--	--	--	--	--	--	4,400	<10	<10
	MW21-20180922	09/22/18	0.33	97.8[D]	--	--	--	--	--	--	2,800[ve]	<10	<10
	MW21-20181215	12/15/18	1.57	--	--	--	--	--	--	--	4,800	<10	<10
	MW21-20190615	06/15/19	0.19	--	--	--	--	--	--	--	2,460[D]	<809[D]	<757[D]
	MW21-20191207	12/07/19	0.77	--	--	--	--	--	--	--	3,980[D]	<16.2	<15.1
	MW21-20200627	06/27/20	0.17	--	--	--	--	--	--	--	1,790[D]	<16.2	<15.1
	MW21-20201212	12/12/20	0.20	--	--	--	--	--	--	--	7,520[D]	<16.2	<15.1
	MW21-20210625	06/25/21	0.49	--	--	--	--	--	--	--	4,970[D]	<15.1	<14.6
	MW21-20211217	12/17/21	0.68	--	--	--	--	--	--	--	5,020[D]	<15.1	<14.6

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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)
MW22	MW22-20181215	12/15/18	0.67	--	1.09 D,H	13,000	6.010	4.06 D,H	--	<3.00 D	4,900	<10	<10
	MW22-20190615	06/15/19	0.38	--	<1.00 H	11,400	11.200	11.6 D,H	--	<0.300 H	3,090 D	<809 D	<757 D
	MW22-20191207	12/07/19	2.02	--	<0.200 DH	10,900	8.010	7.41	--	0.762 D	5,370 D	<16.2	<15.1
	MW22-20200627	06/27/20	0.40	--	<0.200 DH	9,810	8.000	11.0 DH	--	<0.600 D	1,780 D	<16.2	<15.1
	MW22-20201212	12/12/20	0.31	--	<0.200 DH	10,800	15.000	22.0 DH	--	<0.600 D	6,290 D	<16.2	<15.1
	MW22-20210625	06/25/21	0.55	--	--	11,000	11.700	14.9 DH	--	<6.00 D	2,560 D	<15.1	<14.6
	MW22-20211217	12/17/21	0.68	--	<0.500 DH	10,600	11.800	16.4 DH	--	<3.00 D	4,510 D	<15.1	<14.6
MW23	MW23-20150507	05/07/15	2.19	30.9	8.84	173	0.262	0.0800	0.182	49.2	<5	<10	<10
	MW23-20150804	08/04/15	0.73	--	--	--	--	--	--	--	--	--	--
	MW23-20170601	06/01/17	0.49	25.8 D	--	--	--	--	--	--	2,600	<10	<10
	MW23-20170923	09/23/17	0.46	10.5 D	--	--	--	--	--	--	1,700	<10	<10
	MW23-20171216	12/16/17	0.84	30.9 D	--	--	--	--	--	--	3,700	<10	<10
	MW23-20180310	03/10/18	2.25	26.1 D	--	--	--	--	--	--	3,900	<10	<10
	MW23-20180630	06/30/18	0.70	21.1 D	--	--	--	--	--	--	3,400	<10	<10
	MW23-20180922	09/22/18	0.31	20.3 D	--	--	--	--	--	--	4,600 ve	<10	<10
	MW23-20181215	12/15/18	0.79	--	<1.00 D,H	32,300	14.300	3.95 D,H	--	<3.00 D	3,800	<10	<10
	MW23-20190615	06/15/19	0.50	--	<0.100 H	26,700	12.300	13.0 DH	--	0.378 H	2,900 D	<809 D	<757 D
	MW23-20191207	12/07/19	2.12	--	<0.200 DH	22,100	14.600	7.41 DH	--	0.762 D	5,370 D	<16.2	<15.1
	MW23-20200627	06/27/20	0.18	--	<0.100 H	16,500	9.070	12.6 DH	--	0.508	4,590 D	<16.2	<15.1
	MW23-20201212	12/12/20	0.29	--	<0.200 DH	15,200	12.700	16.8 DH	--	0.634 D	10,100 D	<16.2	<15.1
	MW23-20210625	06/25/21	0.29	--	--	14,600	10.400	13.6 DH	--	<3.00 D	3,840 D	<15.1	<14.6
	MW23-20211217	12/17/21	0.39	--	<0.200 DH	11,700	11.500	15.2 DH	--	<1.20 D	4,990 D	<15.1	<14.6
MW24	MW24-20150506	05/06/15	1.04	16.7	1.93	18.2	0.0714	0.0300	0.0414	16.3	<5	<10	<10
	MW24-20150804	08/04/15	0.45	--	--	--	--	--	--	--	--	--	--
	MW24-20151208	12/08/15	1.00	--	--	--	--	--	--	15.8	<5	<10	<10
	MW24-20160715	07/15/16	0.29	--	--	--	--	--	--	1.56	13 jl	<10	<10
	MW24-20170125	01/25/17	1.10	--	--	--	--	--	--	<1.50	2,100	<10	<10
	MW24-20170601	06/01/17	0.38	16.0 D	--	--	--	--	--	--	4,500	<10	<10
	MW24-20170924	09/24/17	0.27	19.4 D	--	--	--	--	--	--	2,800	<10	<10
	MW24-20171216	12/16/17	2.69	22.4 D	--	--	--	--	--	--	3,600	<10	<10
	MW24-20180310	03/10/18	0.70	20.2 D	--	--	--	--	--	--	3,900 ve	<10	<10
	MW24-20180630	06/30/18	0.44	13.6 D	--	--	--	--	--	--	1,800	<10	<10
	MW24-20180630	06/30/18	3.20	30.4 D	--	--	--	--	--	--	1,300	<10	<10
	MW24-20181215	12/15/18	0.44	--	<1.00 D,H	17,400	11.300	1.53 H	--	<3.00 D	3,600	<10	<10
	MW24-20190615	06/15/19	0.29	--	<0.100 H	21,900	11.600	11.1 DH	--	0.348 H	2,660 D	<809 D	<757 D
	MW24-20191207	12/07/19	0.66	--	<0.100 H	20,700	10.700	10.6 DH	--	<0.300	3,960 D	<16.2	<15.1
	MW24-20200627	06/27/20	0.26	--	<0.100 H	21,900	9.830	15.9 DH	--	0.309	5,460 D	<16.2	<15.1
	MW24-20201212	12/12/20	2.03	--	<0.100 H	20,900	13.500	17.8 DH	--	0.300	4,170 D	<16.2	<15.1
	MW24-20210625	06/25/21	0.93	--	--	24,500	18.300	21.9 DH	--	<3.00 D	6,190 D	<15.1	<14.6
	MW24-20211217	12/17/21	0.12	--	<0.200 DH	26,500	14.800	18.7 DH	--	<1.20 D	7,660 D	<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)
MW25	MW25-20150507	05/07/15	2.87	21.8	8.32	190	1.850	0.190[RA]	1.66	56.7	<5	<10	<10
	MW25-20150805	08/06/15	1.47	--	--	--	--	--	--	--	--	--	--
	MW25-20181215	12/15/18	0.69	--	<1.00[D,H]	14,600	9.970	<0.0500[H]	--	<3.00[D]	8,900	<10	<10
	MW25-20190615	06/15/19	0.59	--	<0.100[H]	9,560	12.300	7.60[DH]	--	0.380[H]	9,670[DE]	<324[D]	<303[D]
	MW25-20191207	12/07/19	0.63	--	<0.100[H]	6,850	13.500	13.8[DH]	--	<0.300	7,480[D]	<16.2	<15.1
	MW25-20200627	06/27/20	0.23	--	<0.100[H]	5,290	15.100	20.1[DH]	--	0.473	10,200[D]	<16.2	<15.1
	MW25-20201212	12/12/20	23.36*	--	<0.100[H]	7,390	16.200	21.6[DH]	--	0.342	5,690[D]	<16.2	<15.1
	MW25-20210625	06/25/21	0.82	--	--	8,010	19.300	25.6[DH]	--	<3.00[D]	7,390[D]	<15.1	<14.6
	MW25-20211217	12/17/21	0.24	--	<0.200[D,H]	8,390	15.500	18.8[DH]	--	4.71[D]	3,960[D]	<15.1	<14.6
IW04	IW04-20150508	05/08/15	6.28*	10.8	3.75	12.0	0.230	<0.0300	0.230	34.1	<5	<10	<10
	IW04-20181215	12/15/18	0.64	--	1.03[D,H]	11,800	19.700	0.169[H]	--	8.89[D]	--	--	--
	IW04-20190615	06/15/19	0.24	--	<0.100[H]	12,900	17.900	0.0865[H]	--	0.759	--	--	--
	IW04-20191207	12/07/19	0.98	--	<0.200[DH]	11,700	15.600	<0.0500	--	0.912[D]	--	--	--
	IW04-20200627	06/27/20	5.31*	--	<0.100[H]	10,600	16.400	25.3[DH]	--	0.492	--	--	--
	IW04-20201212	12/12/20	2.00	--	<0.100[H]	11,100	16.500	18.5[DH]	--	0.347	--	--	--
	IW04-20210625	06/25/21	0.76	--	--	11,200	16.800	23.3[DH]	--	<3.00[D]	--	--	--
	IW04-20211217	12/17/21	0.19	--	<0.100[H]	11,500	15.800	23.1[DH]	--	<0.600	--	--	--
IW50	IW50-20170602	06/02/17	0.60	29.9[D]	--	--	--	--	--	--	3,700	<10	<10
	IW50-20170924	09/24/17	0.24	16.1[D]	--	--	--	--	--	--	3,200	<10	<10
	IW50-20171216	12/16/17	2.71	20.5[D]	--	--	--	--	--	--	5,900	<10	<10
	IW50-20180310	03/10/18	0.40	20.5[D]	--	--	--	--	--	--	5,100	<10	<10
	IW50-20180630	06/30/18	0.31	23.8[D]	--	--	--	--	--	--	2,700	<10	<10
	IW50-20180922	09/22/18	0.66	22.3[D]	--	--	--	--	--	--	4,000[ve]	<10	<10
	IW50-20181215	12/15/18	1.28	--	<1.00[D,H]	11,900	10.300	1.88[H]	--	12.1[D]	6,100	<10	<10
	IW50-20190615	06/15/19	0.38	--	<0.100[H]	9,670	7.550	7.08[DH]	--	11.0	3,110[D]	<324[D]	<303[D]
	IW50-20191207	12/07/19	1.02	--	<0.100[H]	8,090	7.170	7.46[DH]	--	11.0	4,120[D]	<16.2	<15.1
	IW50-20200627	06/27/20	8.61*	--	0.232[H]	15,800	16.900	25.0[DH]	--	2.47	3,690[D]	<16.2	<15.1
	IW50-20201212	12/12/20	0.24	--	<0.400[DH]	13,200	18.000	24.2[DH]	--	1.34[D]	13.500[D]	<16.2	<15.1
	IW50-20210625	06/25/21	0.17	--	--	13,400	16.400	24.8[DH]	--	<3.00[D]	3,920[D]	<15.1	<14.6
	IW50-20211217	12/17/21	0.05	--	<0.200	15,500	17.000	22.4[DH]	--	<1.20D	6,890[D]	<15.1	<14.6
IW61	IW61-20170602	06/02/17	0.49	7.18[D]	--	--	--	--	--	--	4,900	<10	<10
	IW61-20170923	09/23/17	0.79	9.25[D]	--	--	--	--	--	--	4,400	<10	<10
	IW61-20171216	12/16/17	0.79	11.0[D]	--	--	--	--	--	--	3,000	<10	<10
	IW61-20180310	03/10/18	1.28	17.8[D]	--	--	--	--	--	--	3,400	<10	<10
	IW61-20180630	06/30/18	0.39	15.3[D]	--	--	--	--	--	--	2,900	<10	<10
	IW61-20180922	09/22/18	0.17	11.4[D]	--	--	--	--	--	--	5,400[ve]	<10	<10
	IW61-20181215	12/15/18	0.73	--	<1.00[D,H]	20,100	50.500	8.83[D,H]	--	<3.00[D]	5,500	<10	<10
	IW61-20190615	06/15/19	0.32	--	<0.100[H]	11,800	25.500	30.5[D,H]	--	0.338	2,440[D]	<324[D]	<303[D]
	IW61-20191207	12/07/19	0.82	--	<0.100[H]	11,000	22.300	24.8[D,H]	--	<0.300	3,860[D]	<16.2	<15.1
	IW61-20200627	06/27/20	0.23	--	<0.100[H]	10,300	24.400	38.1[D,H]	--	0.615	3,100[D]	<16.2	<15.1
	IW61-20201212	12/12/20	0.34	--	<0.100[H]	12,600	25.700	32.8[D,H]	--	<0.300	4,580[D]	<16.2	<15.1
	IW61-20210625	06/25/21	0.25	--	--	13,000	24.500	31.5[D,H]	--	<3.00[D]	2,430[D]	<15.1	<14.6
	IW61-20211217	12/17/21	0.43	--	0.248[D,H]	12,300	20.600	30.4[D,H]	--	<1.20[D]	5,040[D]	<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)
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	0.104	<0.100	--	33.1[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
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	--	--	--	--	--	--	--	--	--	--

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)
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[J,D,H]	744	7.380	1.17[H]	--	8.39[D]	143	<15.1	<14.6
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

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:

[D]Dilution was required.

[H]Holding times for preparation or analysis exceeded.

[J]Analyte detected below Reporting Limit.

[jl] The 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.

[ve] They analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

* 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

EPA = US Environmental Protection Agency

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	0.71	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	0.67	--	14.50	--	--

Table 5
Geochemical and Water Quality Parameters
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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)
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[D]
	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[H]	6.85
	MW18-20211217	12/17/21	6.20	-52.8	0.13	1.08	--	14.9	503	11.9

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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[H]	--
	MW19-20211217	12/17/21	6.20	-25.4	0.08	1.07	--	15.7	488	--
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	0.85	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	0.97	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	1.15	--	14.40	--	--

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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)
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	0.98	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

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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	1.19	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	1.29	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	0.82	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	0.72	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]

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MW23	MW23-20150507	05/07/15	6.09	223.7	2.19	0.452	0.00	14.65	106	<0.500
	MW23-20150804	08/04/15	6.40	105.5	0.73	0.582	6.8	15.42	--	--
	MW23-20151208	12/08/15	5.80	197	2.12	0.548	12.6	15.10	--	--
	MW23-20160308	03/08/16	6.30	92.5	0.49	0.575	1.2	14.78	--	3.14
	MW23-20160608	06/08/16	5.14	66.9	3.15	--	--	--	--	--
	MW23-20160616	06/16/16	4.77	109.5	2.00	--	--	--	--	--
	MW23-20160623	06/23/16	4.75	58.8	0.94	--	--	--	--	--
	MW23-20160629	06/29/16	4.73	92.3	2.40	--	--	--	--	--
	MW23-20160706	07/06/16	4.74	42	2.04	--	--	--	--	--
	MW23-20160714	07/14/16	5.26	38	0.23	1.339	8.0	15.06	--	2,300
	MW23-20160825	08/25/16	4.68	64.2	0.69	--	--	--	--	--
	MW23-20161020	10/20/16	5.38	45.5	0.20	1.637	2.53	15.12	--	2,300
	MW23-20170126	01/26/17	5.71	-43.40	14.39	0.88	8.03	14.39	--	520.00
	MW23-20170601	06/01/17	5.80	232.1	0.49	1.542	5.60	15.60	--	1,620[D]
	MW23-20170923	09/23/17	5.69	-4.4	0.46	1.362	7.30	15.45	--	1,160[D]
	MW23-20171216	12/16/17	5.96	-6.3	0.84	0.973	18.0	15.23	--	865[D]
	MW23-20180310	03/10/18	5.85	-1.4	2.25	0.802	34.1	14.92	--	127[D]
	MW23-20180630	06/30/18	6.15	-82.6	0.70	1.228	178.0	15.80	--	198[D]
	MW23-20180922	09/22/18	6.52	11.1	0.31	0.950	17.5	17.00	--	159[D]
	MW23-20181215	12/15/18	6.30	-72.9	0.79	1.118	40.8	15.89	600	148[D]
	MW23-20190615	06/15/19	6.20	89.0	0.50	1.219	20.0	15.96	639	60.7[D]
	MW23-20191207	12/07/19	6.24	-42.8	2.12	1.070	33.3	12.50	614	17.4[B]
	MW23-20200627	06/27/20	6.13	-21.8	0.18	0.950	7.24	16.00	481	6.41
	MW23-20201212	12/12/20	6.33	136.3	0.29	0.885	12.60	15.16	436	7.90
	MW23-20210625	06/25/21	6.29	-43.7	0.29	0.763	6.04	15.80	382[H]	6.65
	MW23-20211217	12/17/21	9.28	-129.2	0.39	0.787	--	14.47	374	6.10

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MW24	MW24-20150506	05/06/15	6.03	182.9	1.04	0.454	1.81	14.91	172	1.12
	MW24-20150804	08/04/15	5.80	83.7	0.45	0.563	2.89	16.05	--	--
	MW24-20151208	12/08/15	7.62	120.8	1.00	0.685	1.29	15.10	--	--
	MW24-20160309	03/09/16	6.27	113.7	0.38	0.589	1	15.07	--	2.19
	MW24-20160608	06/08/16	6.73	-69.2	2.34	--	--	--	--	--
	MW24-20160616	06/16/16	5.92	-3	1.59	--	--	--	--	--
	MW24-20160623	06/23/16	5.83	-20	0.87	--	--	--	--	--
	MW24-20160629	06/29/16	5.83	36.1	1.54	--	--	--	--	--
	MW24-20160706	07/06/16	5.67	19.7	1.54	--	--	--	--	--
	MW24-20160715	07/15/16	6.00	31.9	0.29	1.142	8	15.39	--	1,000
	MW24-20160825	08/25/16	5.30	30.5	0.24	--	--	--	--	--
	MW24-20161020	10/20/16	5.93	27.5	0.94	1.440	3.56	15.22	--	640
	MW24-20170125	01/25/17	5.49	-33.5	1.10	0.917	589	14.56	--	375
	MW24-20170601	06/01/17	5.75	240.7	0.38	0.998	3034	15.38	--	1,470[D]
	MW24-20170924	09/24/17	5.54	76.3	0.27	0.641	122	16.06	--	390[D]
	MW24-20171216	12/16/17	5.93	-33.4	2.69	0.579	50.2	14.83	--	233[D]
	MW24-20180310	03/10/18	5.73	17.4	0.70	0.614	72.4	14.77	--	22.1[D]
	MW24-20180630	06/30/18	5.60	-43.1	0.44	1.393	15.1	15.81	--	770[D]
	MW24-20180922	09/22/18	6.08	18.9	3.20	0.760	92.4	17.10	--	45.5[D]
	MW24-20181215	12/15/18	6.08	-0.7	0.44	0.735	72.8	15.44	358	52.2[D]
	MW24-20190615	06/15/19	5.93	-2.8	0.29	0.798	7.68	16.00	414	20.5
	MW24-20191207	12/07/19	5.66	-139.0	0.66	0.779	20.4	15.21	434	12.6[B]
	MW24-20200627	06/27/20	6.24	-47.0	0.26	0.86	15.9	15.90	468	8.44
	MW24-20201212	12/12/20	6.08	-26.1	2.03	0.809	4.85	15.09	436	6.95
	MW24-20210625	06/25/21	6.16	-56.4	0.93	0.862	6.98	15.50	401[H]	7.52
	MW24-20211217	12/17/21	6.16	-36.0	0.12	1.11	--	15.00	488	<0.500

Table 5
Geochemical and Water Quality Parameters
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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)
MW25	MW25-20150507	05/07/15	6.31	140.5	2.87	0.498	76.5	14.54	112	<0.500
	MW25-20150805	08/05/15	5.67	158.1	1.47	0.667	2.3	15.16	--	--
	MW25-20151209	12/09/15	7.94	114.9	1.55	0.881	7.6	15.12	--	--
	MW25-20160308	03/08/16	6.25	171.8	0.79	0.524	1.2	15.05	--	--
	MW25-20160713	07/13/16	5.60	-13.5	0.29	0.933	>2,000	15.39	--	--
	MW25-20161019	10/19/16	5.40	22.2	0.18	1.304	9.14	15.48	--	--
	MW25-20170125	01/25/17	5.77	-134.5	0.37	0.712	4.18	14.68	--	--
	MW25-20170601	06/01/17	5.81	-136.3	0.31	1.140	4.82	15.67	--	--
	MW25-20170923	09/23/17	6.17	66.3	0.37	1.103	14.6	16.86	--	--
	MW25-20171216	12/16/17	6.61	-35.3	0.50	1.052	8.68	13.67	--	--
	MW25-20180310	03/10/18	6.22	-19.9	0.32	0.890	9.10	15.52	--	--
	MW25-20180630	06/30/18	6.48	-55.4	0.67	1.381	13.10	16.15	--	--
	MW25-20180922	09/22/18	6.48	-51.4	0.09	1.380	17.50	16.20	--	--
	MW25-20181215	12/15/18	6.42	-2.4	0.69	1.306	5.21	15.84	745	18.4
	MW25-20190615	06/15/19	6.22	-48.1	0.59	1.067	3.92	16.27	575	25.8
	MW25-20191207	12/07/19	6.16	-16.5	0.63	0.810	7.61	17.58	424	6.87[B]
	MW25-20200627	06/27/20	6.2	-37.5	0.23	0.657	14.6	16.20	322	5.21
	MW25-20201212	12/12/20	6.25	-52.3	23.36*	0.806	15.0	15.50	412	9.57
	MW25-20210625	06/25/21	6.19	-113.2	0.82	0.799	7.0	15.90	377[H]	7.50
	MW25-20211217	12/17/21	6.35	-56.5	0.24	1.020	--	15.80	431	4.18
IW04	IW04-20150508	05/08/15	6.58	160.2	6.28*	0.322	15.1	14.80	88.0	<0.500
	IW04-20160309	03/09/16	6.08	-18.6	0.55	0.579	3.5	14.18	--	--
	IW04-20160714	07/14/16	5.17	58.2	0.43	1.401	19.8	14.76	--	--
	IW04-20161021	10/21/16	5.30	27.5	0.10	1.575	7.71	15.01	--	--
	IW04-20170126	01/26/17	5.40	-18.0	0.71	1.288	17.7	14.11	--	--
	IW04-20170601	06/01/17	5.78	-151.8	0.62	0.809	12.7	14.99	--	--
	IW04-20170923	09/23/17	5.99	2.7	0.84	1.189	21.7	18.00	--	--
	IW04-20171216	12/16/17	6.37	-47.8	0.37	0.940	18.8	13.01	--	--
	IW04-20180310	03/10/18	6.22	-40.3	0.82	0.792	56.3	14.77	--	--
	IW04-20180630	06/30/18	6.29	-59.3	0.89	0.914	18	15.59	--	--
	IW04-20180922	09/22/18	6.13	26.1	0.21	0.318	5.1	16.20	--	--
	IW04-20181215	12/15/18	6.32	-26.6	0.64	0.969	14.7	15.27	478	157[D]
	IW04-20190615	06/15/19	6.32	-60.8	0.24	1.112	13.2	15.48	611	148[D]
	IW04-20191207	12/07/19	6.41	-24.1	0.98	1.059	22.6	11.91	595	94.8[BE]
	IW04-20200627	06/27/20	6.12	-0.8	5.31*	0.960	9.17	15.40	517	88.7[D]
	IW04-20201212	12/12/20	9.08	-194.2	2.00	0.910	11.48	15.07	500	90.3[D]
	IW04-20210625	06/25/21	6.39	-93	0.76	0.865	24.4	15.23	450[H]	93.1[D]
	IW04-20211217	12/17/21	6.30	-68.3	0.19	1.040	--	15.00	458	101[D]

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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)
IW06	IW06-20150507	05/07/15	6.70	262.1	7.55*	0.224	17.83	15.02	--	--
	IW06-20180310	03/10/18	5.97	-162.5	0.34	0.284	8.41	14.84	--	--
	IW06-20180630	06/30/18	6.25	-95.9	0.67	0.312	6.99	15.87	--	--
	IW06-20180922	09/22/18	6.35	-55.9	0.17	0.92	43.3	16.20	--	--
	IW06-20181215	12/15/18	6.20	-9.7	0.43	0.297	5.60	15.51	--	--
	IW06-20190615	06/15/19	5.96	67.7	0.58	0.471	11.50	15.81	--	--
	IW06-20191207	12/07/19	6.45	-4.5	0.88	0.446	0.21	12.05	--	--
	IW06-20200627	06/27/20	6.07	-41.9	5.72*	0.749	12.1	15.50	--	--
	IW06-20201212	12/12/20	8.35	-201.9	1.95	0.541	3.66	15.24	--	--
	IW06-20210625	06/25/21	6.09	-98.5	1.16	0.656	11.90	15.38	--	--
	IW06-20211217	12/17/21	6.15	58.2	0.60	0.605	--	15.10	--	--
IW07	IW07-20160825	08/25/16	5.15	-11.4	0.61	--	--	--	--	--
IW15	IW15-20160608	06/08/16	5.19	86.6	2.75	--	--	--	--	--
	IW15-20160616	06/16/16	7.59	70.1	1.95	--	--	--	--	--
	IW15-20160623	06/23/16	5.07	16.6	1.05	--	--	--	--	--
	IW15-20160629	06/29/16	5.11	47.3	1.38	--	--	--	--	--
	IW15-20160706	07/06/16	5.09	28.6	1.55	--	--	--	--	--
	IW15-20160825	08/25/16	4.96	35.9	0.58	--	--	--	--	--
	IW15-20161021	10/21/16	5.42	-16.6	0.12	2.065	3.75	15.46	--	--
	IW15-20170602	06/02/17	5.65	-217.5	0.49	1.00	9.42	15.68	--	--
IW38	IW38-20160608	06/08/16	5.53	57.9	2.4	--	--	--	--	--
	IW38-20160616	06/16/16	5.05	91.4	2	--	--	--	--	--
	IW38-20160623	06/23/16	5.1	39	0.73	--	--	--	--	--
	IW38-20160629	06/29/16	5.13	80.6	1.45	--	--	--	--	--
	IW38-20160706	07/06/16	5.06	49.1	1.65	--	--	--	--	--
	IW38-20160825	08/25/16	4.8	73.4	0.29	--	--	--	--	--
	IW38-20161021	10/21/16	5.06	77.7	0.59	2.07	2.19	15.40	--	--
	IW38-20170602	06/02/17	5.72	-234.3	0.46	0.838	2.80	15.69	--	--

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IW50	IW50-20151208	12/08/15	7.44	122.1	0.56	0.984	2.68	14.71	--	--
	IW50-20160309	03/09/16	3.46	149.7	0.70	0.726	3.01	14.52	--	115
	IW50-20160715	07/15/16	5.45	40.6	0.44	1.35	4.77	14.80	--	1,100
	IW50-20161021	10/21/16	5.69	43.7	0.83	2.055	11.8	14.79	--	1,600
	IW50-20170126	01/26/17	6.43	-59.5	0.80	1.058	43.2	14.46	--	391
	IW50-20170602	06/02/17	6.34	198.5	0.60	0.688	17.4	14.98	--	85.2[D]
	IW50-20170923	09/23/17	6.29	-103.0	0.24	1.004	24.1	15.29	--	214[D]
	IW50-20171216	12/16/17	6.30	-72.4	2.71	1.048	106	14.99	--	224[D]
	IW50-20180310	03/10/18	6.34	-43.1	0.40	1.038	76.8	14.81	--	55.0[D]
	IW50-20180630	06/30/18	6.41	-115.4	0.31	1.204	11.35	15.21	--	41.9[D]
	IW50-20180922	09/22/18	6.65	-37.4	0.66	0.76	5.81	17.40	--	29.6[D]
	IW50-20181215	12/15/18	6.35	-120.3	1.28	0.681	4.74	15.50	338	12.2
	IW50-20190615	06/15/19	6.26	65.8	0.38	0.670	5.18	15.86	299	7.56
	IW50-20191207	12/07/19	6.24	-30.3	1.02	0.618	5.33	12.31	288	6.72[B]
	IW50-20200627	06/27/20	6.08	-13.8	8.61*	0.939	4.91	15.70	497	18.2
	IW50-20201212	12/12/20	6.43	91.8	0.24	1.071	14.1	15.24	544	13.7
	IW50-20210625	06/25/21	6.5	-92.6	0.17	1.016	9.79	15.40	449[H]	16.1
	IW50-20211217	12/17/21	6.29	-61.9	0.05	1.06	--	15.20	468	38.1
IW57	IW57-20160608	06/08/16	4.46	138.7	5.59	--	--	--	--	--
	IW57-20160616	06/16/16	4.51	109.9	2.28	--	--	--	--	--
	IW57-20160623	06/23/16	4.48	56.2	1.88	--	--	--	--	--
	IW57-20160629	06/29/16	4.45	105.5	2.41	--	--	--	--	--
	IW57-20160706	07/06/16	4.56	41.7	2.68	--	--	--	--	--
	IW57-20160825	08/25/16	4.52	38.0	1.01	--	--	--	--	--
	IW57-20161021	10/21/16	5.44	28.9	0.81	2.085	4.16	14.85	--	--
	IW57-20170602	06/02/17	5.76	-242.1	0.33	0.808	22.5	15.25	--	--

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IW61	IW61-20151208	12/08/16	4.27	200.3	3.34	0.655	24.2	14.25	--	--
	IW61-20160309	03/09/16	6.12	-17.9	1.40	0.65	30.1	14.35	--	114
	IW61-20160714	07/14/16	5.31	39.7	0.56	1.624	52.4	15.38	--	2,900
	IW61-20161021	10/21/16	5.63	48.5	0.81	2.283	4.53	15.09	--	3,000
	IW61-20170126	01/26/17	5.89	-47.9	0.41	1.326	1.96	14.27	--	1,300
	IW61-20170602	06/02/17	6.00	219.6	0.49	0.812	7.57	15.42	--	908[D]
	IW61-20170923	09/23/17	5.28	-9.6	0.79	2.264	7.67	15.55	--	1,490[D]
	IW61-20171216	12/16/17	6.07	-66.1	0.79	1.158	510	15.28	--	765[D]
	IW61-20180310	03/10/18	5.80	-1.5	1.28	0.911	185	14.39	--	432[D]
	IW61-20180630	06/30/18	6.02	-92.1	0.39	1.127	22.0	15.72	--	406[D]
	IW61-20180922	09/22/18	6.38	-3.8	0.17	0.75	13.5	16.50	--	228[D]
	IW61-20181215	12/15/18	6.82	-45.1	0.73	1.171	22.0	15.96	494	628[D]
	IW61-20190615	06/15/19	5.94	-21.1	0.32	0.913	12.60	15.97	429	140[D]
	IW61-20191207	12/07/19	5.61	-131.0	0.82	0.819	37.2	15.39	444	103[BE]
	IW61-20200627	06/27/20	6.09	-45.1	0.23	0.859	13.2	16.20	419	55.4[D]
	IW61-20201212	12/12/20	6.22	115.9	0.34	0.960	60.0	15.01	471	60.6[D]
	IW61-20210625	06/25/21	6.32	-72.2	0.25	0.866	64.0	15.80	423[H]	66.2[D]
	IW61-20211217	12/17/21	9.21	-99.4	0.43	0.941	--	14.69	460[H]	72.6[D]
IW64	IW64-20160608	06/08/16	5.22	69.8	3.25	--	--	--	--	--
	IW64-20160616	06/16/16	4.97	94.3	2.27	--	--	--	--	--
	IW64-20160623	06/23/16	5.04	41.5	1.15	--	--	--	--	--
	IW64-20160629	06/29/16	5.09	80.3	2.25	--	--	--	--	--
	IW64-20160706	07/06/16	5.03	36.4	2.05	--	--	--	--	--
	IW64-20160825	08/25/16	5.03	37.0	0.87	--	--	--	--	--
	IW64-20161021	10/21/16	5.70	33.2	0.99	1.980	32.0	15.22	--	--
	IW64-20170602	06/02/17	5.86	-242.4	0.34	0.981	12.6	15.10	--	--

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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	--	--	--	--	--
MW31	MW31-20191009	10/09/19	9.75	100.2	4.02	0.2	16.2	15.02	--	--
	MW31-20191205	12/05/19	6.45	4.1	6.75	0.2	13.6	11.29	--	--
	MW31-20200630	6/30/2020	6.12	232.7	4.32	0.311	2,491[4]	16.06	--	--
	MW31-20201211	12/11/20	6.77	146.9	3.77	0.343	2,950[4]	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	--	--

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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	0.48	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

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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
MW13	MW13-20111020	10/20/11	7.10	138.0	2.12	1.04	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

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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	--	--
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									
MW34	MW34-20211216	12/16/21	7.15	195.3	1.51	0.432	18.5	16.6	--	--

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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	0.70	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[b]
	MW16-20170922	09/22/17	6.62	189.4	0.72	0.995	1.35	16.96	--	92.1[b]
	MW16-20171229	12/29/17	6.87	96.9	2.13	0.830	1.95	14.11	--	93.5[b]
	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	6/13/2019	6.62	81.3	1.08	0.867	4.22	18.72	424	--
	MW28-20191009	10/9/2019	8.1	87.4	1.58	0.789	5.72	16.13	--	--
	MW28-20191204	12/4/2019	6.68	161.5	0.24	0.79	7.72	15.49	391	--
	MW28-20200626	6/26/2020	6.70	-71.0	0.55	0.734	6.51	16.60	351	--
	MW28-20201211	12/11/2020	6.89	158.9	1.47	0.634	18.9	14.37	304	--
	MW28-20210623	6/23/2021	6.69	-48.1	3.67	0.723	7.71	19.66	292	--
	MW28-20211216	12/16/2021	7.34	85.3	0.44	0.532	--	14.40	223	--
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	--	--

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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	0.23	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
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	--	--
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							
	MW33-20110624	06/24/21	6.91	181.6	7.75	0.387	22.8	16.7	--	--
	MW33-20111216	12/16/21	7.26	213.1	1.38	0.371	35.9	14.7	--	--

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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	--	--
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	--	--
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	0.53	3713.0	23.30	--	--
	ONNI-MW-4-20211215	12/15/21	7.54	118.4	0.60	0.54	51.7	14.40	--	--
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		
ONNI-MW-9	ONNI-MW-9-20211214	12/14/21	6.37	20.5	0.4	0.379	115	13.2	--	--

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.

[B]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 Celius

$CaCO_3$ = calcium carbonate

mg/L = milligrams per liter

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 Number	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

Table 6
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Well Identification	Sample Identification Number	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[X,D]	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
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	<0.22	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]

SoundEarth Strategies

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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	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	1.7	<0.47	<0.69	--	--	<0.500

Table 6
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Seattle, Washington

Well Identification	Sample Identification Number	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
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]
IW50	IW50-20160309	03/09/16	<0.39	358	82	1.1	22	<0.69	--	--	115
	IW50-20160715	07/15/16	--	--	--	--	--	--	<100	<100[X,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

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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]

NOTES:

Analyses performed by SiREM in Guelph, ON or AmTEST Lab oratories in Kirkland, Washington.

[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:

[D]The reported value is from a dilution.

[X]Acetic and proprionic acids co-eluted. Results are quantitated at acetic acid.

-- = 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

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

May 2021 Supplemental Sampling

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 28, 2021

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Fernandes:

Included are the results from the testing of material submitted on May 21, 2021 from the SOU_ 0731-004-08_ 20210521, F&BI 105414 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: Sarah Welter
SOU0528R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on May 21, 2020 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_ 0731-004-08_ 20210521, F&BI 105414 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
105414 -01	MW28-20210521

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW28-20210521	Client:	SoundEarth Strategies
Date Received:	05/21/21	Project:	SOU_ 0731-004-08_ 20210521
Date Extracted:	05/24/21	Lab ID:	105414-01
Date Analyzed:	05/24/21	Data File:	052425.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	86	113
Toluene-d8	96	88	114
4-Bromofluorobenzene	104	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	17
Trichloroethene	4.3
Tetrachloroethene	9.2

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_ 0731-004-08_ 20210521
Date Extracted:	05/24/21	Lab ID:	01-1157 mb
Date Analyzed:	05/24/21	Data File:	052430.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	86	113
Toluene-d8	97	88	114
4-Bromofluorobenzene	102	88	112

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

Date of Report: 05/28/21
Date Received: 05/21/21
Project: SOU_ 0731-004-08_ 20210521, F&BI 105414

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

Laboratory Code: 105361-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	85	36-166
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	91	61-136
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	88	63-134
Trichloroethene	ug/L (ppb)	10	<1	91	66-135
Tetrachloroethene	ug/L (ppb)	10	<1	96	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	85	87	50-154	2
trans-1,2-Dichloroethene	ug/L (ppb)	10	93	96	68-128	3
cis-1,2-Dichloroethene	ug/L (ppb)	10	93	94	74-136	1
Trichloroethene	ug/L (ppb)	10	94	96	67-133	2
Tetrachloroethene	ug/L (ppb)	10	103	106	76-121	3

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. 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 lowest calibration standard. 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.

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.

105414

SAMPLE CHAIN OF CUSTODY ME 5/21/21 VW1

Page # 1 of 1

Send Report To Levi Fernandes, cc Sarah Welter

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) Sarah Welter

PROJECT NAME/NO.	PO #
Troy Laundry Property	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

⊗ 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 SM18845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes
MW28-20210521	MW28	-	01	5/21/21		W	3				X						

Samples received at 4 °C

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
Relinquished by:	Sarah Welter	Sarah Welter	SES	5/21/21	1524
Received by:	Hong	HONG NGUYEN	FBI	✓	✓
Relinquished by:					
Received by:					

Second Quarter 2021

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 7, 2021

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

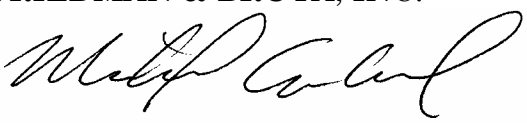
Dear Mr Fernandes:

Included are the results from the testing of material submitted on June 24, 2021 from the SOU_0731-004-05_ 20210624, F&BI 106462 project. There are 28 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: Kyle Lowery
SOU0707R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 24, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-05_ 20210624, F&BI 106462 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
106462 -01	MW29-20210622
106462 -02	MW30-20210623
106462 -03	MW28-20210623
106462 -04	MW13-20210623
106462 -05	MW07-20210623
106462 -06	MW27-20210623
106462 -07	MW26-20210624
106462 -08	MW01-20210624
106462 -09	MW32-20210624
106462 -10	MW04-20210624
106462 -11	MW31-20210624
106462 -12	MW33-20210624

Samples MW28-20210623, MW07-20210623, MW26-20210624, and MW04-20210624 were sent to Fremont Analytical for dissolved gasses, sulfate, nitrate, alkalinity, and ferrous iron analysis. In addition, samples MW07-20210623 and MW26-20210624 were sent for TOC analysis. The report is enclosed.

All quality control requirements were acceptable.

Date of Report: 07/07/21
Date Received: 06/24/21
Project: SOU_0731-004-05_ 20210624, F&BI 106462
Date Extracted: 06/25/21
Date Analyzed: 06/28/21

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 52-124)
MW28-20210623 106462-03	<1	<1	<1	<3	<100	110
MW13-20210623 106462-04	<1	<1	<1	<3	<100	111
Method Blank 01-1417 MB	<1	<1	<1	<3	<100	106

Date of Report: 07/07/21
Date Received: 06/24/21
Project: SOU_0731-004-05_ 20210624, F&BI 106462
Date Extracted: 06/25/21
Date Analyzed: 06/25/21

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

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
MW28-20210623 106462-03	120 x	<250	92
MW13-20210623 106462-04	100 x	<300	108
Method Blank 01-1496 MB	<50	<250	89

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW28-20210623	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-03 x10
Date Analyzed:	06/29/21	Data File:	106462-03 x10.067
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	1,340
Manganese	617

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW07-20210623	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-05
Date Analyzed:	06/28/21	Data File:	106462-05.044
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	166
Manganese	15.2

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW26-20210624	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-07
Date Analyzed:	06/28/21	Data File:	106462-07.045
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	497

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW26-20210624	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-07 x10
Date Analyzed:	06/29/21	Data File:	106462-07 x10.070
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Manganese	579

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW04-20210624	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-10
Date Analyzed:	06/28/21	Data File:	106462-10.046
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Manganese	24.1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW04-20210624	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-10 x10
Date Analyzed:	06/29/21	Data File:	106462-10 x10.071
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	1,630

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	I1-402 mb
Date Analyzed:	06/28/21	Data File:	I1-402 mb.039
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW29-20210622	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-01
Date Analyzed:	06/28/21	Data File:	062807.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	86	113
Toluene-d8	99	88	114
4-Bromofluorobenzene	110	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	16
Trichloroethene	11
Tetrachloroethene	14

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW30-20210623	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-02
Date Analyzed:	06/28/21	Data File:	062808.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	86	113
Toluene-d8	100	88	114
4-Bromofluorobenzene	108	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	7.4
Trichloroethene	2.0
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW28-20210623	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-03
Date Analyzed:	06/28/21	Data File:	062809.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	86	113
Toluene-d8	98	88	114
4-Bromofluorobenzene	118	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	14
Trichloroethene	3.5
Tetrachloroethene	7.0

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW13-20210623	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-04
Date Analyzed:	06/28/21	Data File:	062810.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	86	113
Toluene-d8	98	88	114
4-Bromofluorobenzene	103	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<1
Tetrachloroethene	4.1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW07-20210623	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-05
Date Analyzed:	06/28/21	Data File:	062811.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	86	113
Toluene-d8	97	88	114
4-Bromofluorobenzene	100	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	3.4
Trichloroethene	15
Tetrachloroethene	1.8

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW27-20210623	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-06
Date Analyzed:	06/28/21	Data File:	062812.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	86	113
Toluene-d8	98	88	114
4-Bromofluorobenzene	101	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	4.3
Trichloroethene	80
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW26-20210624	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-07
Date Analyzed:	06/28/21	Data File:	062813.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	86	113
Toluene-d8	99	88	114
4-Bromofluorobenzene	102	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	6.6
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW01-20210624	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-08
Date Analyzed:	06/28/21	Data File:	062814.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	86	113
Toluene-d8	97	88	114
4-Bromofluorobenzene	103	88	112

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

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW32-20210624	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-09
Date Analyzed:	06/29/21	Data File:	062928.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	86	113
Toluene-d8	101	88	114
4-Bromofluorobenzene	102	88	112

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

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW04-20210624	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-10
Date Analyzed:	06/28/21	Data File:	062823.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	86	113
Toluene-d8	98	88	114
4-Bromofluorobenzene	100	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	11
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW31-20210624	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-11
Date Analyzed:	06/28/21	Data File:	062824.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	86	113
Toluene-d8	99	88	114
4-Bromofluorobenzene	104	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	5.0
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW33-20210624	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	106462-12
Date Analyzed:	06/28/21	Data File:	062825.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	86	113
Toluene-d8	101	88	114
4-Bromofluorobenzene	100	88	112

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

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-05_ 20210624
Date Extracted:	06/28/21	Lab ID:	01-1241 mb
Date Analyzed:	06/28/21	Data File:	062806.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	86	113
Toluene-d8	98	88	114
4-Bromofluorobenzene	103	88	112

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

Date of Report: 07/07/21
Date Received: 06/24/21
Project: SOU_0731-004-05_ 20210624, F&BI 106462

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 106423-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	102	65-118
Toluene	ug/L (ppb)	50	102	72-122
Ethylbenzene	ug/L (ppb)	50	104	73-126
Xylenes	ug/L (ppb)	150	101	74-118
Gasoline	ug/L (ppb)	1,000	99	69-134

Date of Report: 07/07/21
Date Received: 06/24/21
Project: SOU_0731-004-05_ 20210624, F&BI 106462

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

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	104	108	63-142	4

Date of Report: 07/07/21
Date Received: 06/24/21
Project: SOU_0731-004-05_ 20210624, F&BI 106462

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

Laboratory Code: 106462-03 (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	1,390	84 b	69 b	70-130	20 b
Manganese	ug/L (ppb)	20	586	74	81	70-130	9

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	102	85-115

Date of Report: 07/07/21
Date Received: 06/24/21
Project: SOU_0731-004-05_ 20210624, F&BI 106462

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

Laboratory Code: 106462-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	86	36-166
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	85	61-136
cis-1,2-Dichloroethene	ug/L (ppb)	10	16	107 b	63-134
Trichloroethene	ug/L (ppb)	10	11	108 b	66-135
Tetrachloroethene	ug/L (ppb)	10	14	113 b	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	77	91	50-154	17
trans-1,2-Dichloroethene	ug/L (ppb)	10	85	84	68-128	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	94	89	74-136	5
Trichloroethene	ug/L (ppb)	10	94	95	67-133	1
Tetrachloroethene	ug/L (ppb)	10	96	95	76-121	1

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. 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 lowest calibration standard. 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.

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.

106462

SAMPLE CHAIN OF CUSTODY

06-24-21

Page # 1 of 1

Send Report To Levi Fernandes, Kyle Lowery

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature)

PROJECT NAME/NO. Troy Laundry Property

PO # 0731-004-05

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

EIM Y

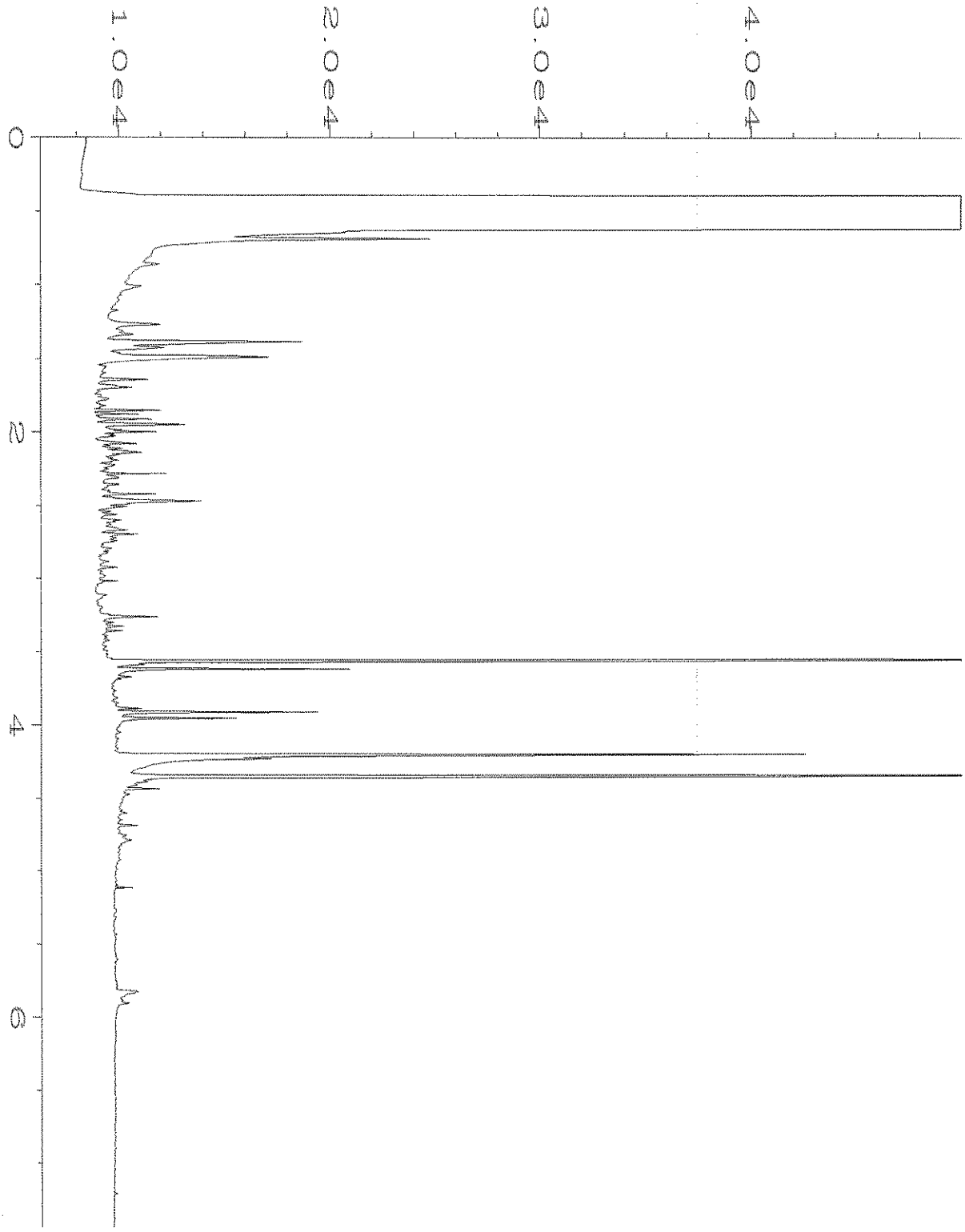
TURNAROUND TIME
Standard (2 Weeks)
RUSH
Rush charges authorized by:

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	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs* by EPA 8260C	Total Fe/Mn by EPA 6010C	TOC By EPA 415.1	Methane, Ethane, and Ethene by RSK175	Sulfate by EPA 300.0	Alkalinity	Notes
MW29-20210622	MW29	—	01A-C	06/22/21	1626	H2O	3				X						
MW30-20210623	MW30	—	02	06/23/21	1219		3				X						
MW28-20210623	MW28	—	03A-K		1238		11	X	X	X	X	X		X	X	X	
MW13-20210623	MW13	—	04A-E		1325		5	X	X	X	X						
MW07-20210623	MW07	—	05A-J		1435		10				X	X	X	X	X	X	
MW27-20210623	MW27	—	06A-C	↓	1436		3				X						
MW26-20210624	MW26	—	07A-J	06/24/21	0922		10				X	X	X	X	X	X	
MW01-20210624	MW01	—	08A-C		0935		3				X						
MW32-20210624	MW32	—	09		1059		3				X						
MW04-20210624	MW04	—	10A-I		1106		9				X	X		X	X	X	
MW31-20210624	MW31	—	11A-C		1226		3				X						
MW33-20210624	MW33		12	↓	1344		3				X						

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
Relinquished by:	Kyle Lowery	SES	06/24/21	1805
Received by:	JOE MOHAMED	FBI	06/24/21	1805
Relinquished by:				
Received by:		Samples received at 4 °C		



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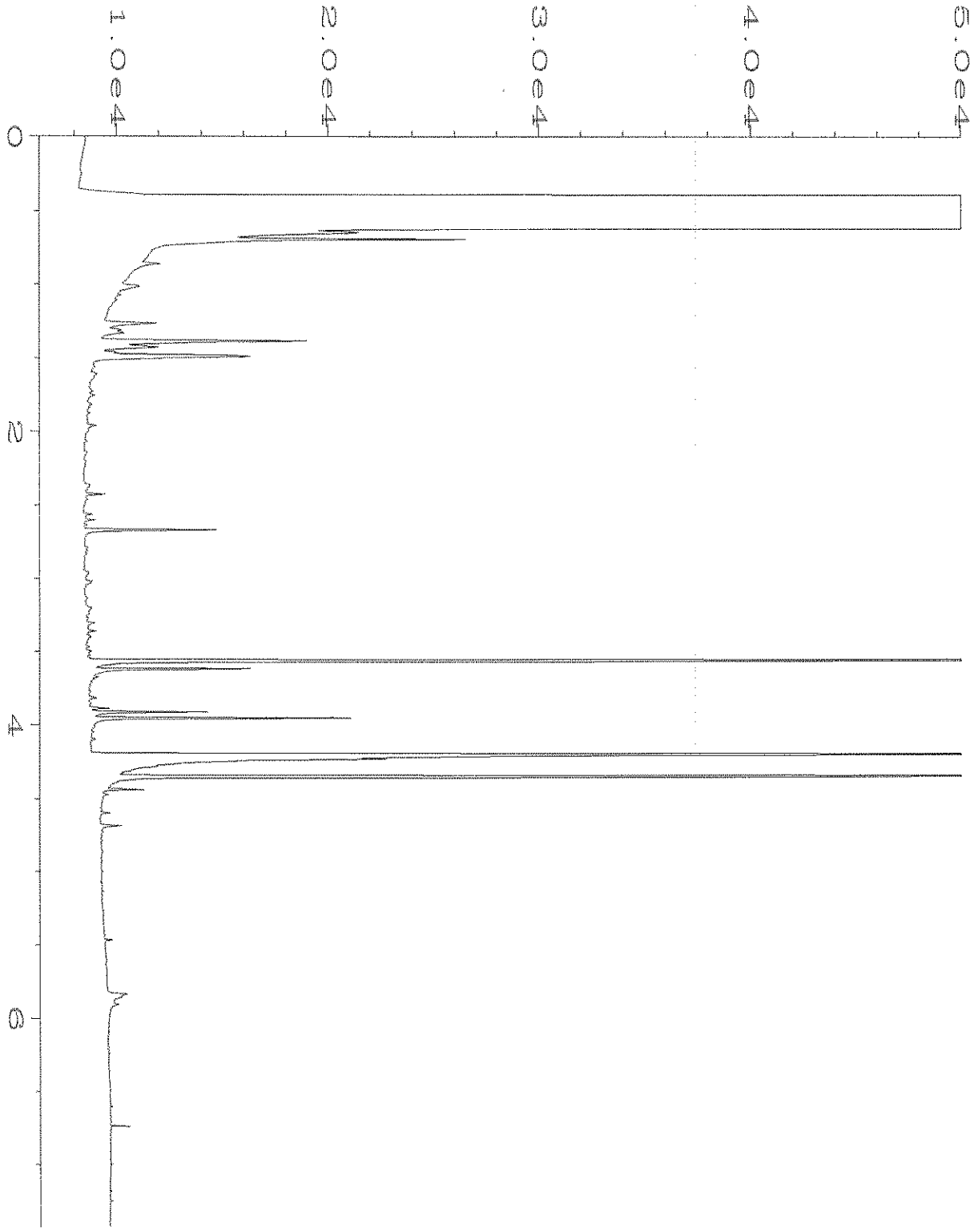
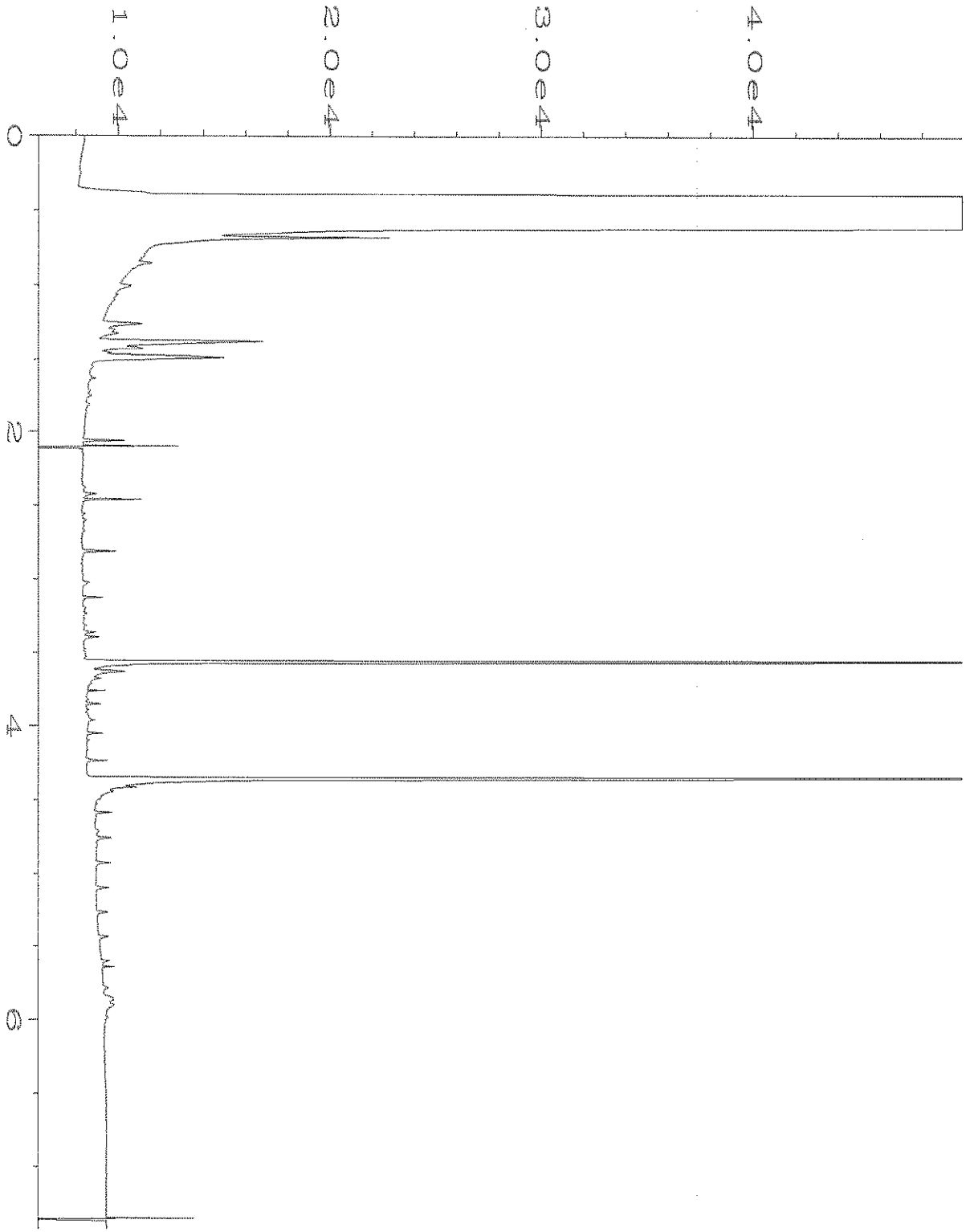
Operator	: TL	Page Number	: 1
Instrument	: GC1	Vial Number	: 52
Sample Name	: 106462-03	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 14
Acquired on	: 25 Jun 21 09:09 PM	Instrument Method	: DX.MTH
Report Created on	: 28 Jun 21 09:08 AM	Analysis Method	: DEFAULT.MTH



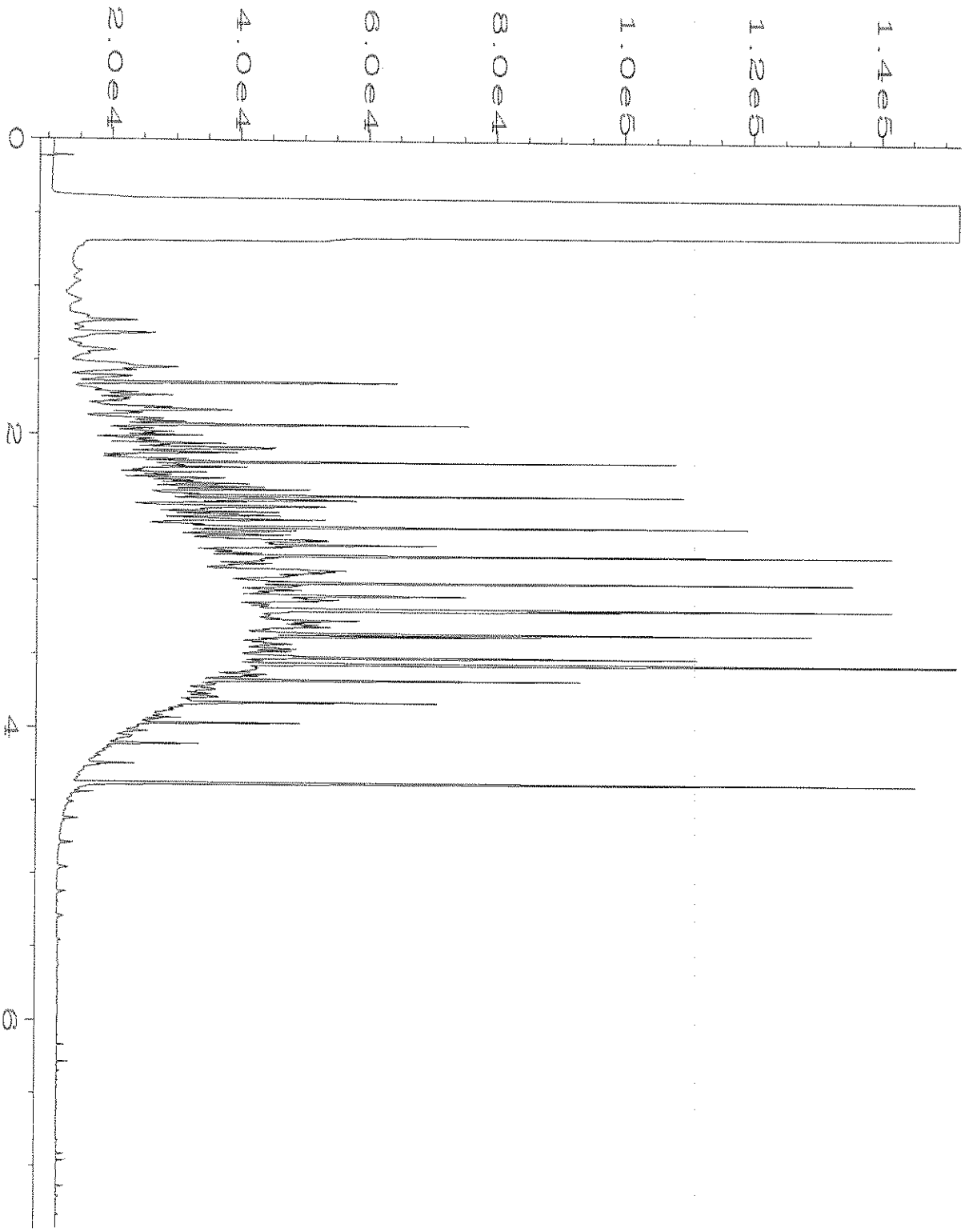
Data File Name : C:\HPCHEM\1\DATA\06-25-21\053F1401.D
Operator : TL
Instrument : GC1
Sample Name : 106462-04
Run Time Bar Code:
Acquired on : 25 Jun 21 09:21 PM
Report Created on: 28 Jun 21 09:08 AM

Page Number : 1
Vial Number : 53
Injection Number : 1
Sequence Line : 14
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH



Data File Name : C:\HPCHEM\1\DATA\06-25-21\043F1401.D
Operator : TL
Instrument : GC1
Sample Name : 01-1496 mb
Run Time Bar Code:
Acquired on : 25 Jun 21 07:21 PM
Report Created on: 28 Jun 21 09:08 AM

Page Number : 1
Vial Number : 43
Injection Number : 1
Sequence Line : 14
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH



Data File Name	: C:\HPCHEM\1\DATA\06-25-21\003F0201.D		
Operator	: TL	Page Number	: 1
Instrument	: GC1	Vial Number	: 3
Sample Name	: 500 Dx 63-79C	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 25 Jun 21 06:56 AM	Instrument Method	: DX.MTH
Report Created on	: 28 Jun 21 09:06 AM	Analysis Method	: DEFAULT.MTH

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

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 106462
Work Order Number: 2106475

July 02, 2021

Attention Michael Erdahl:

Fremont Analytical, Inc. received 4 sample(s) on 6/25/2021 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

Date: *07/02/2021*

CLIENT: Friedman & Bruya
Project: 106462
Work Order: 2106475

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2106475-001	MW28-20210623	06/23/2021 12:38 PM	06/25/2021 10:41 AM
2106475-002	MW07-20210623	06/23/2021 2:35 PM	06/25/2021 10:41 AM
2106475-003	MW26-20210623	06/24/2021 9:22 AM	06/25/2021 10:41 AM
2106475-004	MW04-20210623	06/24/2021 11:06 AM	06/25/2021 10:41 AM

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

Original

Case Narrative

WO#: **2106475**
Date: **7/2/2021**

CLIENT: Friedman & Bruya
Project: 106462

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: **2106475**
Date Reported: **7/2/2021**

Client: Friedman & Bruya
Collection Date: 6/23/2021 12:38:00 PM
Project: 106462
Lab ID: 2106475-001
Matrix: Water
Client Sample ID: **MW28-20210623**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68347		Analyst: MS
Methane	0.0532	0.00675		mg/L	1	7/1/2021 5:09:00 PM
Ethene	ND	0.0146		mg/L	1	7/1/2021 5:09:00 PM
Ethane	ND	0.0151		mg/L	1	7/1/2021 5:09:00 PM
Ion Chromatography by EPA Method 300.0				Batch ID: 32801		Analyst: TN
Nitrate (as N)	ND	0.100	H	mg/L	1	6/28/2021 2:29:00 PM
Sulfate	9.58	0.600		mg/L	1	6/28/2021 2:29:00 PM
Total Alkalinity by SM 2320B				Batch ID: R68276		Analyst: TN
Alkalinity, Total (As CaCO3)	292	2.50		mg/L	1	6/29/2021 11:58:36 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R68295		Analyst: SS
Ferrous Iron	1.28	0.100	H	mg/L	1	6/25/2021 11:30:00 AM

Analytical Report

Work Order: **2106475**
Date Reported: **7/2/2021**

Client: Friedman & Bruya
Collection Date: 6/23/2021 2:35:00 PM
Project: 106462
Lab ID: 2106475-002
Matrix: Water
Client Sample ID: **MW07-20210623**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68347		Analyst: MS
Methane	0.317	0.0135	D	mg/L	2	7/1/2021 5:22:00 PM
Ethene	ND	0.0146		mg/L	1	7/1/2021 5:12:00 PM
Ethane	ND	0.0151		mg/L	1	7/1/2021 5:12:00 PM
Ion Chromatography by EPA Method 300.0				Batch ID: 32801		Analyst: TN
Nitrate (as N)	14.0	1.00	DH	mg/L	10	6/25/2021 8:17:00 PM
Sulfate	32.0	6.00	D	mg/L	10	6/25/2021 8:17:00 PM
Total Organic Carbon by SM 5310C				Batch ID: R68335		Analyst: SS
Total Organic Carbon	0.949	0.500		mg/L	1	6/29/2021 7:07:00 PM
Total Alkalinity by SM 2320B				Batch ID: R68276		Analyst: TN
Alkalinity, Total (As CaCO3)	99.4	2.50		mg/L	1	6/29/2021 11:58:36 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R68295		Analyst: SS
Ferrous Iron	ND	0.100	H	mg/L	1	6/25/2021 11:30:00 AM

Analytical Report

Work Order: **2106475**
Date Reported: **7/2/2021**

Client: Friedman & Bruya
Collection Date: 6/24/2021 9:22:00 AM
Project: 106462
Lab ID: 2106475-003
Matrix: Water
Client Sample ID: **MW26-20210623**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68347		Analyst: MS
Methane	0.0129	0.00675		mg/L	1	7/1/2021 5:14:00 PM
Ethene	ND	0.0146		mg/L	1	7/1/2021 5:14:00 PM
Ethane	ND	0.0151		mg/L	1	7/1/2021 5:14:00 PM
Ion Chromatography by EPA Method 300.0				Batch ID: 32801		Analyst: TN
Nitrate (as N)	ND	0.400	DH	mg/L	4	6/28/2021 2:53:00 PM
Nitrate (as N)	ND	1.00	D	mg/L	10	6/25/2021 8:40:00 PM
Sulfate	32.5	6.00	D	mg/L	10	6/25/2021 8:40:00 PM
Total Organic Carbon by SM 5310C				Batch ID: R68335		Analyst: SS
Total Organic Carbon	1.30	0.500		mg/L	1	6/29/2021 7:29:00 PM
Total Alkalinity by SM 2320B				Batch ID: R68276		Analyst: TN
Alkalinity, Total (As CaCO3)	114	2.50		mg/L	1	6/29/2021 11:58:36 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R68295		Analyst: SS
Ferrous Iron	0.382	0.100	H	mg/L	1	6/25/2021 11:30:00 AM

Analytical Report

Work Order: **2106475**
Date Reported: **7/2/2021**

Client: Friedman & Bruya
Collection Date: 6/24/2021 11:06:00 AM
Project: 106462
Lab ID: 2106475-004
Matrix: Water
Client Sample ID: **MW04-20210623**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68347		Analyst: MS
Methane	ND	0.00675		mg/L	1	7/1/2021 5:16:00 PM
Ethene	ND	0.0146		mg/L	1	7/1/2021 5:16:00 PM
Ethane	ND	0.0151		mg/L	1	7/1/2021 5:16:00 PM
Ion Chromatography by EPA Method 300.0				Batch ID: 32801		Analyst: TN
Nitrate (as N)	4.86	1.00	D	mg/L	10	6/25/2021 9:03:00 PM
Sulfate	41.9	6.00	D	mg/L	10	6/25/2021 9:03:00 PM
Total Alkalinity by SM 2320B				Batch ID: R68276		Analyst: TN
Alkalinity, Total (As CaCO3)	137	2.50		mg/L	1	6/29/2021 11:58:36 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R68295		Analyst: SS
Ferrous Iron	ND	0.100	H	mg/L	1	6/25/2021 11:30:00 AM

Work Order: 2106475
CLIENT: Friedman & Bruya
Project: 106462

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

Sample ID: **MB-R68276**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **6/29/2021**		RunNo: **68276**		
Client ID: **MBLKW**	Batch ID: **R68276**					Analysis Date: **6/29/2021**		SeqNo: **1378749**		
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-R68276**	SampType: **LCS**			Units: **mg/L**		Prep Date: **6/29/2021**		RunNo: **68276**		
Client ID: **LCSW**	Batch ID: **R68276**					Analysis Date: **6/29/2021**		SeqNo: **1378750**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	90.6	2.50	100.0	0	90.6	90.5	114				

Sample ID: **2106466-001ADUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **6/29/2021**		RunNo: **68276**		
Client ID: **BATCH**	Batch ID: **R68276**					Analysis Date: **6/29/2021**		SeqNo: **1378755**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	57.0	2.50						56.08	1.66	20	

Work Order: 2106475
CLIENT: Friedman & Bruya
Project: 106462

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **MB-R68295**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **6/25/2021**	RunNo: **68295**
Client ID: **MBLKW**	Batch ID: **R68295**		Analysis Date: **6/25/2021**	SeqNo: **1379361**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.100									

Sample ID: **LCS-R68295**	SampType: **LCS**	Units: **mg/L**	Prep Date: **6/25/2021**	RunNo: **68295**
Client ID: **LCSW**	Batch ID: **R68295**		Analysis Date: **6/25/2021**	SeqNo: **1379362**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.434	0.100	0.4000	0	109	85	115				

Sample ID: **2106475-001BDUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **6/25/2021**	RunNo: **68295**
Client ID: **MW28-20210623**	Batch ID: **R68295**		Analysis Date: **6/25/2021**	SeqNo: **1379364**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.30	0.100						1.283	1.52	20	H

Sample ID: **2106475-001BMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **6/25/2021**	RunNo: **68295**
Client ID: **MW28-20210623**	Batch ID: **R68295**		Analysis Date: **6/25/2021**	SeqNo: **1379365**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.84	0.100	0.4000	1.283	139	70	130				SH

NOTES:
S - Analyte concentration was too high for accurate spike recovery(ies).

Sample ID: **2106475-001BMSD**	SampType: **MSD**	Units: **mg/L**	Prep Date: **6/25/2021**	RunNo: **68295**
Client ID: **MW28-20210623**	Batch ID: **R68295**		Analysis Date: **6/25/2021**	SeqNo: **1379366**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.89	0.100	0.4000	1.283	152	70	130	1.837	2.99	20	SH

NOTES:
S - Analyte concentration was too high for accurate spike recovery(ies).

Work Order: 2106475
CLIENT: Friedman & Bruya
Project: 106462

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **MB-32801**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **6/25/2021**	RunNo: **68249**
Client ID: **MBLKW**	Batch ID: **32801**		Analysis Date: **6/25/2021**	SeqNo: **1378153**

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-32801**	SampType: **LCS**	Units: **mg/L**	Prep Date: **6/25/2021**	RunNo: **68249**
Client ID: **LCSW**	Batch ID: **32801**		Analysis Date: **6/25/2021**	SeqNo: **1378154**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.766	0.100	0.7500	0	102	90	110				
Sulfate	3.89	0.600	3.750	0	104	90	110				

Sample ID: **2106467-004ADUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **6/25/2021**	RunNo: **68249**
Client ID: **BATCH**	Batch ID: **32801**		Analysis Date: **6/25/2021**	SeqNo: **1378156**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	10.0						0		20	D
Sulfate	ND	60.0						0		20	D

Sample ID: **2106467-004AMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **6/25/2021**	RunNo: **68249**
Client ID: **BATCH**	Batch ID: **32801**		Analysis Date: **6/25/2021**	SeqNo: **1378157**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	77.0	10.0	75.00	0	103	80	120				D
Sulfate	396	60.0	375.0	37.20	95.7	80	120				D

Work Order: 2106475
CLIENT: Friedman & Bruya
Project: 106462

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **2106467-004AMSD** SampType: **MSD** Units: **mg/L** Prep Date: **6/25/2021** RunNo: **68249**
Client ID: **BATCH** Batch ID: **32801** Analysis Date: **6/25/2021** SeqNo: **1378158**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	76.9	10.0	75.00	0	103	80	120	77.00	0.130	20	D
Sulfate	398	60.0	375.0	37.20	96.3	80	120	395.9	0.604	20	D

Sample ID: **2106476-004ADUP** SampType: **DUP** Units: **mg/L** Prep Date: **6/25/2021** RunNo: **68249**
Client ID: **BATCH** Batch ID: **32801** Analysis Date: **6/25/2021** SeqNo: **1378170**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	1.00						0		20	D
Sulfate	9.03	6.00						9.200	1.87	20	D

Sample ID: **2106476-004AMS** SampType: **MS** Units: **mg/L** Prep Date: **6/25/2021** RunNo: **68249**
Client ID: **BATCH** Batch ID: **32801** Analysis Date: **6/26/2021** SeqNo: **1378171**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	7.99	1.00	7.500	0.6800	97.5	80	120				D
Sulfate	47.2	6.00	37.50	9.200	101	80	120				D

Work Order: 2106475
CLIENT: Friedman & Bruya
Project: 106462

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **MB-R68335** SampType: **MBLK** Units: **mg/L** Prep Date: **6/29/2021** RunNo: **68335**
Client ID: **MBLKW** Batch ID: **R68335** Analysis Date: **6/29/2021** SeqNo: **1380532**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.500									

Sample ID: **LCS-R68335** SampType: **LCS** Units: **mg/L** Prep Date: **6/29/2021** RunNo: **68335**
Client ID: **LCSW** Batch ID: **R68335** Analysis Date: **6/29/2021** SeqNo: **1380533**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	4.79	0.500	5.000	0	95.8	90.6	113				

Sample ID: **2106475-003DDUP** SampType: **DUP** Units: **mg/L** Prep Date: **6/29/2021** RunNo: **68335**
Client ID: **MW26-20210623** Batch ID: **R68335** Analysis Date: **6/29/2021** SeqNo: **1380536**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	1.27	0.500						1.296	1.71	20	

Sample ID: **2106475-003DMS** SampType: **MS** Units: **mg/L** Prep Date: **6/29/2021** RunNo: **68335**
Client ID: **MW26-20210623** Batch ID: **R68335** Analysis Date: **6/29/2021** SeqNo: **1380537**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	6.23	0.500	5.000	1.296	98.6	69.1	124				

Sample ID: **2106475-003DMSD** SampType: **MSD** Units: **mg/L** Prep Date: **6/29/2021** RunNo: **68335**
Client ID: **MW26-20210623** Batch ID: **R68335** Analysis Date: **6/29/2021** SeqNo: **1380538**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.93	0.500	5.000	1.296	92.8	69.1	124	6.226	4.80	30	

Work Order: 2106475
CLIENT: Friedman & Bruya
Project: 106462

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **2106490-002ADUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **6/30/2021**		RunNo: **68335**			
Client ID: **BATCH**	Batch ID: **R68335**					Analysis Date: **6/30/2021**		SeqNo: **1380548**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	97.0	0.500						97.86	0.852	20	E

Sample ID: **2106490-002AMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **6/30/2021**		RunNo: **68335**			
Client ID: **BATCH**	Batch ID: **R68335**					Analysis Date: **6/30/2021**		SeqNo: **1380549**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	101	0.500	5.000	97.86	67.4	69.1	124				ES

NOTES:
S - Analyte concentration was too high for accurate spike recovery(ies).

Work Order: 2106475
CLIENT: Friedman & Bruya
Project: 106462

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: **LCS-R68347** SampType: **LCS** Units: **mg/L** Prep Date: **7/1/2021** RunNo: **68347**
Client ID: **LCSW** Batch ID: **R68347** Analysis Date: **7/1/2021** SeqNo: **1380778**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1,130	0.00675	1,000	0	113	66.7	141				
Ethene	1,120	0.0146	1,000	0	112	68.6	139				
Ethane	1,120	0.0151	1,000	0	112	69.3	136				

Sample ID: **MB-R68347** SampType: **MBLK** Units: **mg/L** Prep Date: **7/1/2021** RunNo: **68347**
Client ID: **MBLKW** Batch ID: **R68347** Analysis Date: **7/1/2021** SeqNo: **1380779**

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: **2106467-008CREP** SampType: **REP** Units: **mg/L** Prep Date: **7/1/2021** RunNo: **68347**
Client ID: **BATCH** Batch ID: **R68347** Analysis Date: **7/1/2021** SeqNo: **1380759**

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 Log-In Check List

Client Name:	**FB**	Work Order Number:	**2106475**
Logged by:	**Carissa True**	Date Received:	**6/25/2021 10:41:00 AM**

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample 1	2.3

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2106475

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

PROJECT NAME/NO.	PO #
106462	B-306

REMARKS

Please Email Results

TURNAROUND TIME

☒ 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: Dioxins/Furans	EPH	VPH	TOC	Methane, Ethane, Ethene RSK	Sulfate	Nitrate	Alkalinity	Ferrous Iron		Notes
MW28-20210623		6/23/21	1238	H_2O						X	X	X	X	X		
MW07-20210623		6/23/21	1435	↓					X	X	X	X	X	X		
MW26-20210623		6/24/21	0922	↓					X	X	X	X	X	X		
MW04-20210623		6/24/21	1106	↓						X	X	X	X	X		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Michael Erdahl	Friedman & Bruya	6/25/21	0753
Received by:		Maura Anderson	FBI	6/25/21	10:41
Relinquished by:					
Received by:					

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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fbi@isomedia.com
www.friedmanandbruya.com

June 29, 2021

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

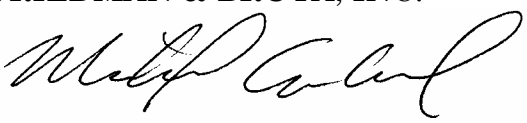
Dear Mr Fernandes:

Included are the results from the testing of material submitted on June 24, 2021 from the SOU_0731-004-08_ 20210624, F&BI 106463 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: Kyle Lowery
SOU0629R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 24, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_ 20210624, F&BI 106463 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
106463 -01	ONNI-MW-4-06210622
106463 -02	ONNI-MW-5-06210623

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	ONNI-MW-4-06210622	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-08_ 20210624
Date Extracted:	06/25/21	Lab ID:	106463-01
Date Analyzed:	06/25/21	Data File:	062538.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	86	113
Toluene-d8	99	88	114
4-Bromofluorobenzene	103	88	112

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

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	ONNI-MW-5-06210623	Client:	SoundEarth Strategies
Date Received:	06/24/21	Project:	SOU_0731-004-08_ 20210624
Date Extracted:	06/25/21	Lab ID:	106463-02
Date Analyzed:	06/25/21	Data File:	062539.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	86	113
Toluene-d8	98	88	114
4-Bromofluorobenzene	103	88	112

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

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_ 20210624
Date Extracted:	06/25/21	Lab ID:	01-1237 mb
Date Analyzed:	06/25/21	Data File:	062508.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	86	113
Toluene-d8	95	88	114
4-Bromofluorobenzene	100	88	112

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

Date of Report: 06/29/21
Date Received: 06/24/21
Project: SOU_0731-004-08_ 20210624, F&BI 106463

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

Laboratory Code: 106454-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	87	36-166
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	93	61-136
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	96	63-134
Trichloroethene	ug/L (ppb)	10	<1	98	66-135
Tetrachloroethene	ug/L (ppb)	10	<1	100	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	83	83	50-154	0
trans-1,2-Dichloroethene	ug/L (ppb)	10	92	93	68-128	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	93	93	74-136	0
Trichloroethene	ug/L (ppb)	10	94	93	67-133	1
Tetrachloroethene	ug/L (ppb)	10	100	100	76-121	0

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. 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 lowest calibration standard. 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.

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.

1064683 Jun 6/24

Levi Fernandes, Kyla Lowery

SAMPLE CHAIN OF CUSTODY

06-24121 VW2 1 of 1

Send Report To ~~Logan Schleicher~~

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature)

PROJECT NAME/NO.: Troy Laundry Property

PO #: 0731-004-08

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

EIM Y

Page # _____ of _____

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	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
ONNI-MW-4-20210622	ONNI-4	-	01	06/22/21	1620	H_2O	3				X						
ONNI-MW-5-20210623	ONNI-5	-	02	06/23/21	1105	H_2O	3				X						

KD 06-24-21

Samples received at 4 °C

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Kyla Lowery	SEI	06/24/21	1805
Received by:		Joe Montanez	FBI	06/24/21	1805
Relinquished by:					
Received by:					

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 12, 2021

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

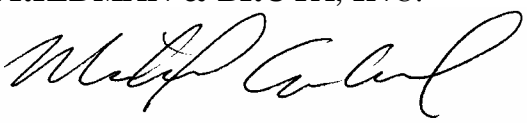
Dear Mr Fernandes:

Included are the results from the testing of material submitted on June 25, 2021 from the SOU_0731-004-05_ 20210625, F&BI 106488 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: Kyle Lowery
SOU0712R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 25, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-05_ 20210625, F&BI 106488 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
106488 -01	MW23-20210625
106488 -02	MW25-20210625
106488 -03	MW19-20210625
106488 -04	MW22-20210625
106488 -05	MW17-20210625
106488 -06	IW91-20210625
106488 -07	MW18-20210625
106488 -08	MW21-20210625
106488 -09	MW20-20210625
106488 -10	MW24-20210625
106488 -11	MW99-20210625

Samples MW23-20210625, MW25-20210625, MW22-20210625, MW18-20210625, and MW24-20210625 were sent to Fremont Analytical for dissolved gasses, sulfate, nitrate, alkalinity, TOC, and ferrous iron analyses. Sample MW19-20210625 was sent to Fremont for dissolved gasses, sulfate, nitrate, alkalinity, and ferrous iron analyses. Sample MW21-20210625 was sent to Fremont for TOC and dissolved gasses analyses. The report is enclosed with the exception of the alkalinity results. Those will be issued when received.

All quality control requirements were acceptable.

Date of Report: 07/12/21
Date Received: 06/25/21
Project: SOU_0731-004-05_ 20210625, F&BI 106488
Date Extracted: 06/30/21
Date Analyzed: 06/30/21

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
MW22-20210625 106488-04	540	124
MW21-20210625 106488-08	1,000	119
Method Blank 01-1424 MB	<100	96

Date of Report: 07/12/21
Date Received: 06/25/21
Project: SOU_0731-004-05_ 20210625, F&BI 106488
Date Extracted: 06/28/21
Date Analyzed: 06/28/21

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

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
MW22-20210625 106488-04	20,000 x	1,800 x	116
MW21-20210625 106488-08	74,000 x ve	5,400 x	96
Method Blank 01-1504 MB	<50	<250	130

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW23-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	106488-01 x100
Date Analyzed:	07/01/21	Data File:	106488-01 x100.079
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	10,400
Manganese	14,600

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW25-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	106488-02 x100
Date Analyzed:	07/01/21	Data File:	106488-02 x100.080
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	19,300
Manganese	8,010

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW19-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	106488-03 x100
Date Analyzed:	07/01/21	Data File:	106488-03 x100.099
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	18,200

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW19-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	106488-03 x500
Date Analyzed:	07/03/21	Data File:	106488-03 x500.209
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Manganese	15,200

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW22-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	106488-04 x100
Date Analyzed:	07/01/21	Data File:	106488-04 x100.106
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	11,700
Manganese	11,000

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW18-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	106488-07 x100
Date Analyzed:	07/01/21	Data File:	106488-07 x100.107
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	13,900
Manganese	8,900

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW24-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	106488-10 x100
Date Analyzed:	07/01/21	Data File:	106488-10 x100.108
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	18,300

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW24-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	106488-10 x500
Date Analyzed:	07/03/21	Data File:	106488-10 x500.210
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Manganese	24,500

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	I1-407 mb
Date Analyzed:	06/30/21	Data File:	I1-407 mb.095
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW23-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	106488-01
Date Analyzed:	06/29/21	Data File:	062913.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	86	113
Toluene-d8	99	88	114
4-Bromofluorobenzene	105	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.97
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	26
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW25-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	106488-02
Date Analyzed:	06/29/21	Data File:	062914.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	86	113
Toluene-d8	100	88	114
4-Bromofluorobenzene	102	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.79
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	48
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW19-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	106488-03
Date Analyzed:	06/29/21	Data File:	062915.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	86	113
Toluene-d8	100	88	114
4-Bromofluorobenzene	105	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.0
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW22-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	106488-04
Date Analyzed:	06/29/21	Data File:	062916.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	86	113
Toluene-d8	101	88	114
4-Bromofluorobenzene	101	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.82
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	43
Trichloroethene	<1
Tetrachloroethene	1.1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW17-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	106488-05
Date Analyzed:	06/29/21	Data File:	062917.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	86	113
Toluene-d8	97	88	114
4-Bromofluorobenzene	101	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	1.7
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	IW91-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	106488-06
Date Analyzed:	06/29/21	Data File:	062918.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	86	113
Toluene-d8	101	88	114
4-Bromofluorobenzene	103	88	112

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

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW18-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	106488-07
Date Analyzed:	06/29/21	Data File:	062919.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	86	113
Toluene-d8	101	88	114
4-Bromofluorobenzene	102	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.7
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	1.9
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW21-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	106488-08
Date Analyzed:	06/29/21	Data File:	062920.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	86	113
Toluene-d8	99	88	114
4-Bromofluorobenzene	99	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.86
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	11
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW20-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	106488-09
Date Analyzed:	06/29/21	Data File:	062921.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	86	113
Toluene-d8	97	88	114
4-Bromofluorobenzene	101	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	5.3
Trichloroethene	1.6
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW24-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	106488-10
Date Analyzed:	06/29/21	Data File:	062906.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	78	126
Toluene-d8	105	87	115
4-Bromofluorobenzene	99	92	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.67
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	37
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW99-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	106488-11
Date Analyzed:	06/29/21	Data File:	062923.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	86	113
Toluene-d8	100	88	114
4-Bromofluorobenzene	102	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.90
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	47
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/29/21	Lab ID:	01-1244 mb
Date Analyzed:	06/29/21	Data File:	062908.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	86	113
Toluene-d8	98	88	114
4-Bromofluorobenzene	100	88	112

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

Date of Report: 07/12/21
Date Received: 06/25/21
Project: SOU_0731-004-05_ 20210625, F&BI 106488

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

Laboratory Code: 106494-01 (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	94	69-134

Date of Report: 07/12/21
Date Received: 06/25/21
Project: SOU_0731-004-05_ 20210625, F&BI 106488

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

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	132	140	63-142	6

Date of Report: 07/12/21
Date Received: 06/25/21
Project: SOU_0731-004-05_ 20210625, F&BI 106488

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

Laboratory Code: 106488-02 (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	16,000	248 b	0 b	70-130	200 b
Manganese	ug/L (ppb)	20	6,210	117 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	99	85-115
Manganese	ug/L (ppb)	20	96	85-115

Date of Report: 07/12/21
Date Received: 06/25/21
Project: SOU_0731-004-05_ 20210625, F&BI 106488

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

Laboratory Code: 106488-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	0.97	84	36-166
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	84	61-136
cis-1,2-Dichloroethene	ug/L (ppb)	10	26	84 b	63-134
Trichloroethene	ug/L (ppb)	10	<1	95	66-135
Tetrachloroethene	ug/L (ppb)	10	<1	96	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	90	92	50-154	2
trans-1,2-Dichloroethene	ug/L (ppb)	10	95	93	68-128	2
cis-1,2-Dichloroethene	ug/L (ppb)	10	97	95	74-136	2
Trichloroethene	ug/L (ppb)	10	98	97	67-133	1
Tetrachloroethene	ug/L (ppb)	10	98	99	76-121	1

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. 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 lowest calibration standard. 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.

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.

10648 Levi Fernandes

SAMPLE CHAIN OF CUSTODY

ME 06125721

Page # 1 of 1 VW4

Send Report To ~~Logan Schumacher~~

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature)

PROJECT NAME/NO.	PO #
Troy Laundry Property	0731-004-05
REMARKS *cVOCs = PCE, TCE, Cis/Trans-DCE, and VC	EIM Y

TURNAROUND TIME

~~Standard (2 Weeks)~~ ~~RUSH~~ 72 hr ~~Day~~ Day

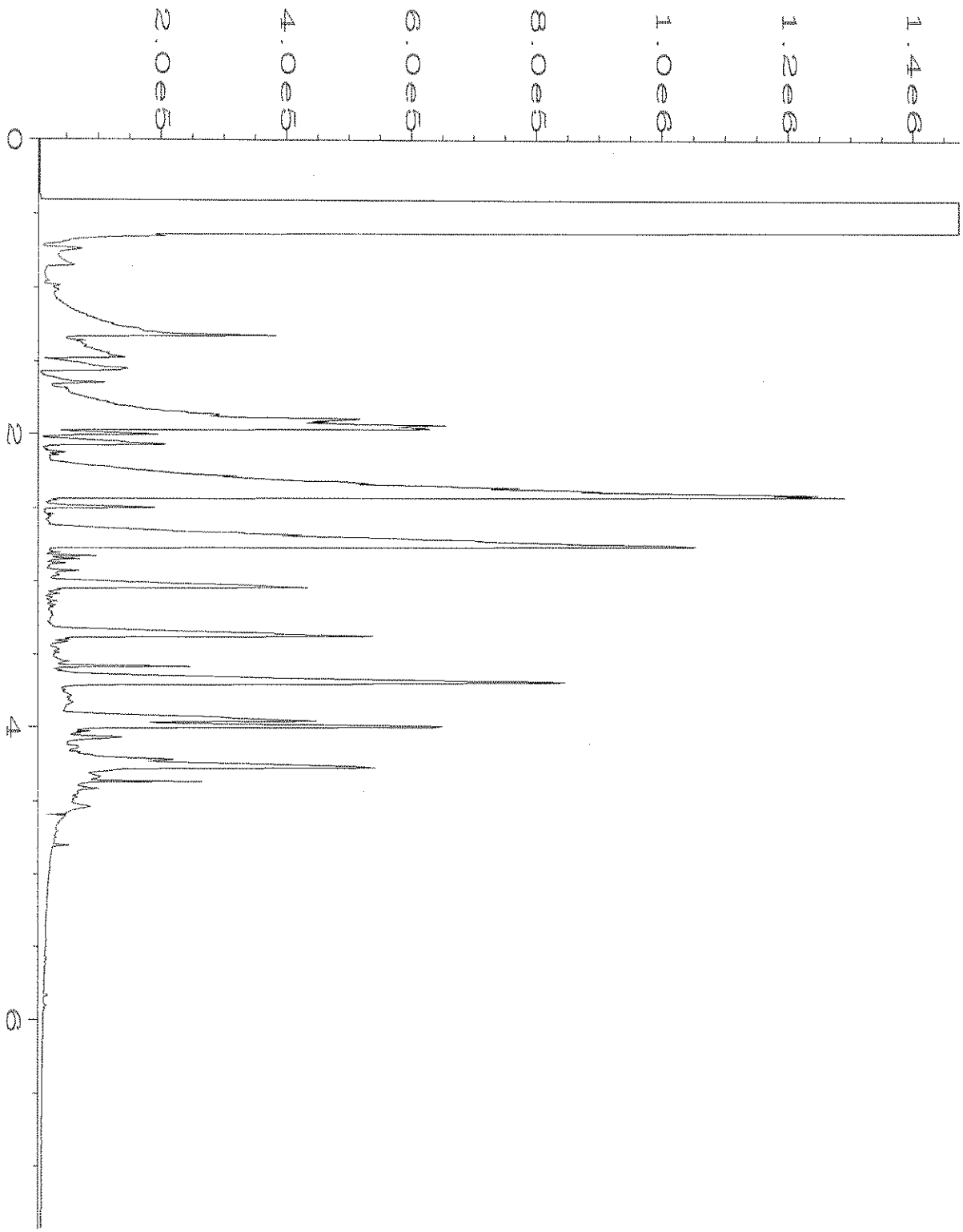
Rush charges authorized by:

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	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs* by EPA 8260C	~~Total Fe & Mn~~ ~~TOC by 1664~~	TOC By EPA 415.1	Methane, Ethane, and Ethene by RSK175	Sulfate by EPA 300.0/Nitrate/Alkalinity	Fe	Notes
MW23-20210625	MW23	—	01 A-J	6/25/21	0910	H_2O	10				X	X	X	X	X	X	
MW25-20210625	MW25	—	02		0915	H_2O	10				X	X	X	X	X	X	
MW19-20210625	MW19	—	03 A-I		1003	H_2O	9				X	X		X	X	X	
~~MW22~~ MW22-20210625	MW22	—	04 A-L		1150	H_2O	12	X		X	X	X	X	X	X	X	
MW17-20210625	MW17	—	05 A-C		1234	H_2O	3				X						
IW91-20210625	IW91	—	06		1255	H_2O	3				X						
MW18-20210625	MW18	—	07 A-J		1315	H_2O	10				X	X	X	X	X	X	
MW21-20210625	MW21	—	08 A-I		1340	H_2O	9	X		X	X		X	X			
MW20-20210625	MW20	—	09 A-C		1405	H_2O	3				X						
MW24-20210625	MW24	—	10 A-J		1443	H_2O	10				X	X	X	X	X	X	
					CST 6/25/21												
MW99-20210625	MW99	—	11 A-C		0920	H_2O	3				⊗	per CT 6/25/21 ME					(NP) 6/25/21

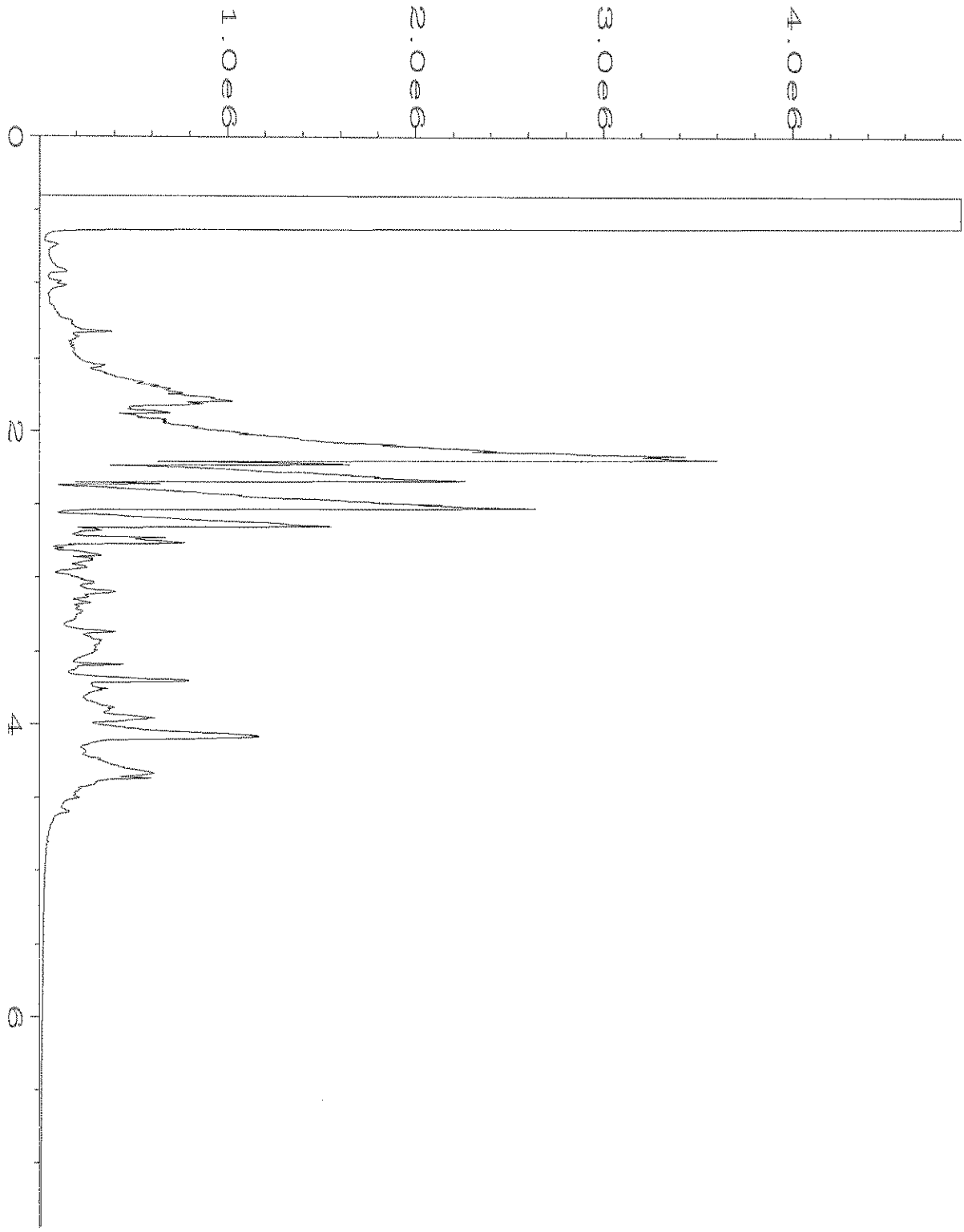
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Clare Tochilin	SoundEarth	6/25/21	1715
Received by:	JOE MOHAMMED	FEDEX	6/25/21	1715
Relinquished by:				
Received by:		Samples received at 5 °C		

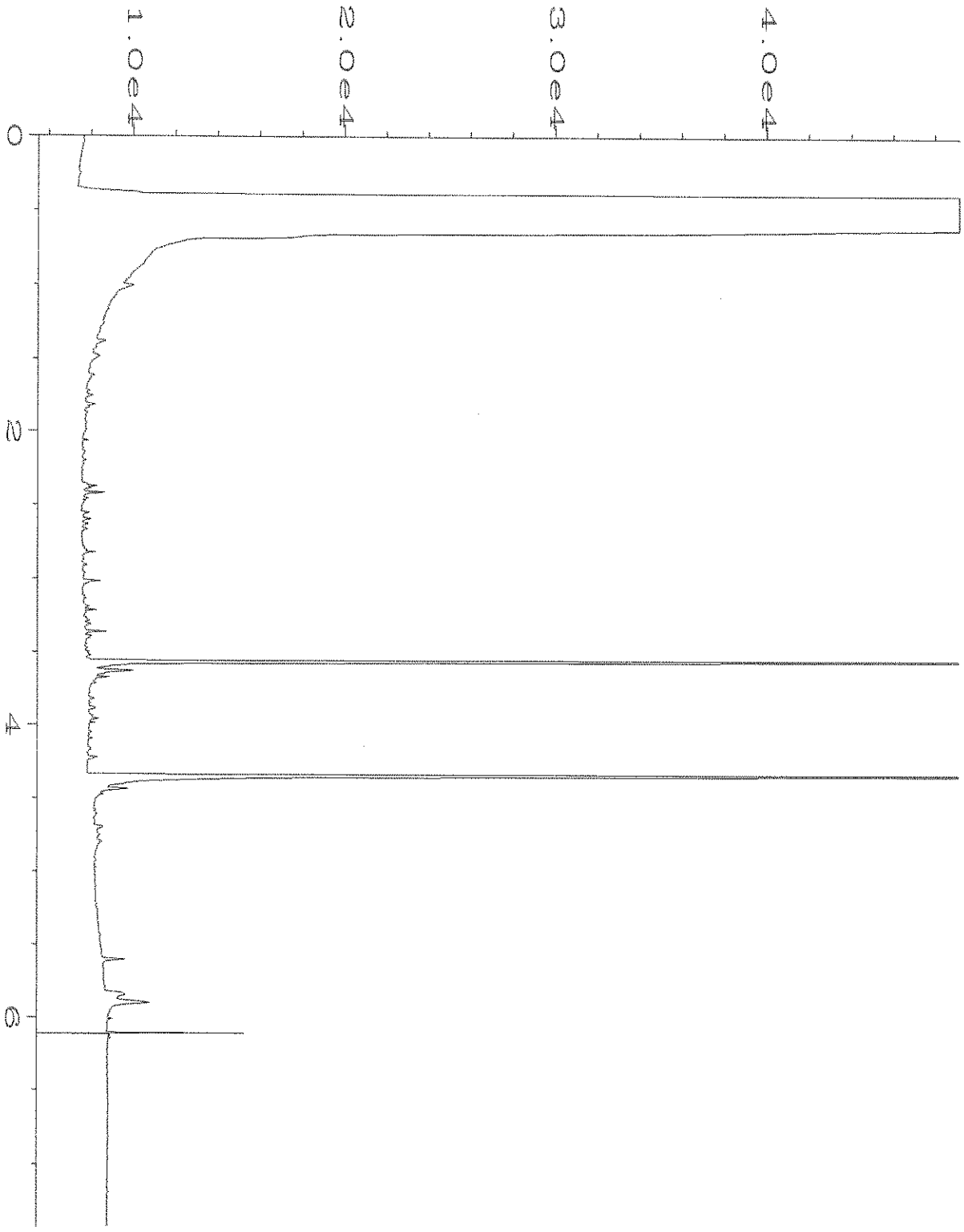


Data File Name : C:\HPCHEM\1\DATA\06-28-21\028F0901.D
Operator : TL
Instrument : GC1
Sample Name : 106488-04
Run Time Bar Code:
Acquired on : 28 Jun 21 04:33 PM
Report Created on: 29 Jun 21 10:18 AM

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 9
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH

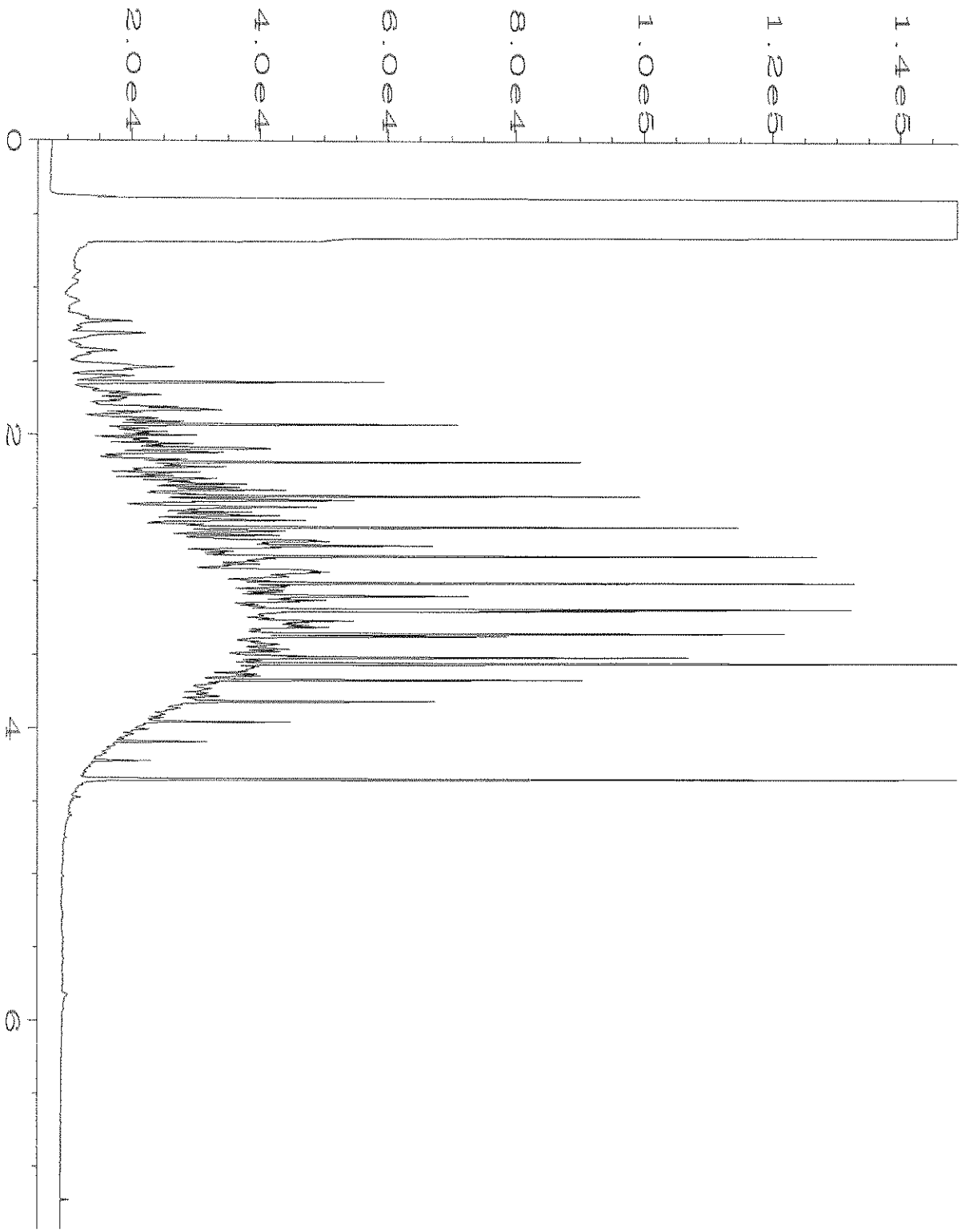


Data File Name	: C:\HPCHEM\1\DATA\06-28-21\029F0901.D		
Operator	: TL	Page Number	: 1
Instrument	: GC1	Vial Number	: 29
Sample Name	: 106488-08	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 28 Jun 21 04:45 PM	Instrument Method	: DX.MTH
Report Created on	: 29 Jun 21 10:19 AM	Analysis Method	: DEFAULT.MTH



Data File Name : C:\HPCHEM\1\DATA\06-28-21\024F0701.D
Operator : TL
Instrument : GC1
Sample Name : 01-1504 mb
Run Time Bar Code:
Acquired on : 28 Jun 21 03:19 PM
Report Created on: 29 Jun 21 10:19 AM

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 7
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH



Data File Name : C:\HPCHEM\1\DATA\06-28-21\003F0801.D
Operator : TL
Instrument : GC1
Sample Name : 500 Dx 63-79C
Run Time Bar Code:
Acquired on : 28 Jun 21 04:20 PM
Report Created on: 29 Jun 21 10:19 AM

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 8
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH

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

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 106488
Work Order Number: 2106491

July 13, 2021

Attention Michael Erdahl:

Fremont Analytical, Inc. received 7 sample(s) on 6/28/2021 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

Date: *07/13/2021*

CLIENT: Friedman & Bruya
Project: 106488
Work Order: 2106491

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2106491-001	MW23-20210625	06/25/2021 9:10 AM	06/28/2021 9:38 AM
2106491-002	MW25-20210625	06/25/2021 9:15 AM	06/28/2021 9:38 AM
2106491-003	MW19-20210625	06/25/2021 10:03 AM	06/28/2021 9:38 AM
2106491-004	MW22-20210625	06/25/2021 11:50 AM	06/28/2021 9:38 AM
2106491-005	MW18-20210625	06/25/2021 1:15 PM	06/28/2021 9:38 AM
2106491-006	MW21-20210625	06/25/2021 1:40 PM	06/28/2021 9:38 AM
2106491-007	MW24-20210625	06/25/2021 2:43 PM	06/28/2021 9:38 AM

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

Case Narrative

WO#: **2106491**
Date: **7/13/2021**

CLIENT: Friedman & Bruya
Project: 106488

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.

7/13/2021: Revision 1 includes additional analysis requested by client.

Analytical Report

Work Order: **2106491**
Date Reported: **7/13/2021**

CLIENT: Friedman & Bruya
Project: 106488

Lab ID: 2106491-001 **Collection Date:** 6/25/2021 9:10:00 AM
Client Sample ID: **MW23-20210625** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68449		Analyst: MS
Methane	3.84	0.338	D	mg/L	50	7/9/2021 10:38:00 AM
Ethene	ND	0.0146		mg/L	1	7/9/2021 11:34:00 AM
Ethane	ND	0.0151		mg/L	1	7/9/2021 11:34:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 32859		Analyst: SS
Sulfate	ND	3.00	D	mg/L	5	7/1/2021 11:55:00 AM
NOTES: Diluted due to matrix.						
Total Organic Carbon by SM 5310C				Batch ID: R68335		Analyst: SS
Total Organic Carbon	6.65	0.500		mg/L	1	6/30/2021 2:30:00 AM
Total Alkalinity by SM 2320B				Batch ID: R68478		Analyst: TN
Alkalinity, Total (As CaCO3)	382	2.50	H	mg/L	1	7/12/2021 2:16:46 PM
Ferrous Iron by SM3500-Fe B				Batch ID: R68268		Analyst: SS
Ferrous Iron	13.6	2.50	DH	mg/L	25	6/29/2021 9:40:58 AM

Analytical Report

Work Order: **2106491**
Date Reported: **7/13/2021**

CLIENT: Friedman & Bruya
Project: 106488

Lab ID: 2106491-002 **Collection Date:** 6/25/2021 9:15:00 AM
Client Sample ID: **MW25-20210625** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68449		Analyst: MS
Methane	7.39	0.338	D	mg/L	50	7/9/2021 10:41:00 AM
Ethene	ND	0.0146		mg/L	1	7/9/2021 11:37:00 AM
Ethane	ND	0.0151		mg/L	1	7/9/2021 11:37:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 32859		Analyst: SS
Sulfate	ND	3.00	D	mg/L	5	7/1/2021 12:19:00 PM
NOTES: Diluted due to matrix.						
Total Organic Carbon by SM 5310C				Batch ID: R68335		Analyst: SS
Total Organic Carbon	7.50	0.500		mg/L	1	6/30/2021 3:04:00 AM
Total Alkalinity by SM 2320B				Batch ID: R68478		Analyst: TN
Alkalinity, Total (As CaCO3)	377	2.50	H	mg/L	1	7/12/2021 2:16:46 PM
Ferrous Iron by SM3500-Fe B				Batch ID: R68268		Analyst: SS
Ferrous Iron	25.6	2.50	DH	mg/L	25	6/29/2021 9:40:58 AM

Analytical Report

Work Order: **2106491**
Date Reported: **7/13/2021**

CLIENT: Friedman & Bruya
Project: 106488

Lab ID: 2106491-003 **Collection Date:** 6/25/2021 10:03:00 AM
Client Sample ID: **MW19-20210625** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68449		Analyst: MS
Methane	5.84	0.338	D	mg/L	50	7/9/2021 10:43:00 AM
Ethene	ND	0.0146		mg/L	1	7/9/2021 11:39:00 AM
Ethane	ND	0.0151		mg/L	1	7/9/2021 11:39:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 32859		Analyst: SS
Sulfate	ND	2.40	D	mg/L	4	7/1/2021 12:42:00 PM
NOTES: Diluted due to matrix.						
Total Alkalinity by SM 2320B				Batch ID: R68510		Analyst: TN
Alkalinity, Total (As CaCO3)	520	2.50	H	mg/L	1	7/13/2021 2:00:00 PM
Ferrous Iron by SM3500-Fe B				Batch ID: R68268		Analyst: SS
Ferrous Iron	14.5	2.50	DH	mg/L	25	6/29/2021 9:40:58 AM

Analytical Report

Work Order: **2106491**
Date Reported: **7/13/2021**

CLIENT: Friedman & Bruya
Project: 106488

Lab ID: 2106491-004 **Collection Date:** 6/25/2021 11:50:00 AM
Client Sample ID: **MW22-20210625** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68449		Analyst: MS
Methane	2.56	0.338	D	mg/L	50	7/9/2021 10:49:00 AM
Ethene	ND	0.0146		mg/L	1	7/9/2021 11:41:00 AM
Ethane	ND	0.0151		mg/L	1	7/9/2021 11:41:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 32859		Analyst: SS
Sulfate	ND	6.00	D	mg/L	10	6/30/2021 9:31:00 PM
NOTES: Diluted due to matrix.						
Total Organic Carbon by SM 5310C				Batch ID: R68335		Analyst: SS
Total Organic Carbon	150	5.00	D	mg/L	10	6/30/2021 10:23:00 AM
Total Alkalinity by SM 2320B				Batch ID: R68510		Analyst: TN
Alkalinity, Total (As CaCO3)	243	2.50	H	mg/L	1	7/13/2021 2:00:00 PM
Ferrous Iron by SM3500-Fe B				Batch ID: R68268		Analyst: SS
Ferrous Iron	14.9	2.50	DH	mg/L	25	6/29/2021 9:40:58 AM

CLIENT: Friedman & Bruya
Project: 106488

Lab ID: 2106491-005 **Collection Date:** 6/25/2021 1:15:00 PM
Client Sample ID: **MW18-20210625** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68449		Analyst: MS
Methane	5.19	0.338	D	mg/L	50	7/9/2021 10:52:00 AM
Ethene	ND	0.0146		mg/L	1	7/9/2021 11:43:00 AM
Ethane	ND	0.0151		mg/L	1	7/9/2021 11:43:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 32859		Analyst: SS
Sulfate	ND	3.00	D	mg/L	5	7/1/2021 1:05:00 PM
NOTES: Diluted due to matrix.						
Total Organic Carbon by SM 5310C				Batch ID: R68335		Analyst: SS
Total Organic Carbon	6.85	0.500		mg/L	1	6/30/2021 3:47:00 AM
Total Alkalinity by SM 2320B				Batch ID: R68510		Analyst: TN
Alkalinity, Total (As CaCO3)	454	2.50	H	mg/L	1	7/13/2021 2:00:00 PM
Ferrous Iron by SM3500-Fe B				Batch ID: R68268		Analyst: SS
Ferrous Iron	16.3	2.50	DH	mg/L	25	6/29/2021 9:40:58 AM

Lab ID: 2106491-006 **Collection Date:** 6/25/2021 1:40:00 PM
Client Sample ID: **MW21-20210625** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68449		Analyst: MS
Methane	4.97	0.338	D	mg/L	50	7/9/2021 10:54:00 AM
Ethene	ND	0.0146		mg/L	1	7/9/2021 11:45:00 AM
Ethane	ND	0.0151		mg/L	1	7/9/2021 11:45:00 AM
Total Organic Carbon by SM 5310C				Batch ID: R68335		Analyst: SS
Total Organic Carbon	349	10.0	D	mg/L	20	6/30/2021 10:45:00 AM

Analytical Report

Work Order: **2106491**
Date Reported: **7/13/2021**

CLIENT: Friedman & Bruya
Project: 106488

Lab ID: 2106491-007
Client Sample ID: **MW24-20210625**
Collection Date: 6/25/2021 2:43:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68449		Analyst: MS
Methane	6.19	0.338	D	mg/L	50	7/9/2021 10:56:00 AM
Ethene	ND	0.0146		mg/L	1	7/9/2021 11:47:00 AM
Ethane	ND	0.0151		mg/L	1	7/9/2021 11:47:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 32859		Analyst: SS
Sulfate	ND	3.00	D	mg/L	5	7/1/2021 1:28:00 PM
NOTES: Diluted due to matrix.						
Total Organic Carbon by SM 5310C				Batch ID: R68335		Analyst: SS
Total Organic Carbon	7.52	0.500		mg/L	1	6/30/2021 4:53:00 AM
Total Alkalinity by SM 2320B				Batch ID: R68510		Analyst: TN
Alkalinity, Total (As CaCO3)	401	2.50	H	mg/L	1	7/13/2021 2:00:00 PM
Ferrous Iron by SM3500-Fe B				Batch ID: R68268		Analyst: SS
Ferrous Iron	21.9	2.50	DH	mg/L	25	6/29/2021 9:40:58 AM

Work Order: 2106491
CLIENT: Friedman & Bruya
Project: 106488

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

Sample ID: **MB-R68478**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **7/12/2021**		RunNo: **68478**		
Client ID: **MBLKW**	Batch ID: **R68478**					Analysis Date: **7/12/2021**		SeqNo: **1383903**		
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-R68478**	SampType: **LCS**			Units: **mg/L**		Prep Date: **7/12/2021**		RunNo: **68478**		
Client ID: **LCSW**	Batch ID: **R68478**					Analysis Date: **7/12/2021**		SeqNo: **1383904**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	89.3	2.50	100.0	0	89.3	88.3	113				

Sample ID: **2106490-002CDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **7/12/2021**		RunNo: **68478**		
Client ID: **BATCH**	Batch ID: **R68478**					Analysis Date: **7/12/2021**		SeqNo: **1383907**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	450	2.50						450.1	0	20	H

Sample ID: **MB-R68510**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **7/13/2021**		RunNo: **68510**		
Client ID: **MBLKW**	Batch ID: **R68510**					Analysis Date: **7/13/2021**		SeqNo: **1384529**		
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-R68510**	SampType: **LCS**			Units: **mg/L**		Prep Date: **7/13/2021**		RunNo: **68510**		
Client ID: **LCSW**	Batch ID: **R68510**					Analysis Date: **7/13/2021**		SeqNo: **1384530**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	97.6	2.50	100.0	0	97.6	88.3	113				

Date: *7/13/2021*

Work Order: 2106491
CLIENT: Friedman & Bruya
Project: 106488

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

Sample ID: **2106491-004DDUP** SampType: **DUP** Units: **mg/L** Prep Date: **7/13/2021** RunNo: **68510**
Client ID: **MW22-20210625** Batch ID: **R68510** Analysis Date: **7/13/2021** SeqNo: **1384533**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	241	2.50						243.3	0.765	20	H

Work Order: 2106491
CLIENT: Friedman & Bruya
Project: 106488

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **MB-R68268**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **6/29/2021**			RunNo: **68268**		
Client ID: **MBLKW**	Batch ID: **R68268**					Analysis Date: **6/29/2021**			SeqNo: **1378636**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.100									

Sample ID: **LCS-R68268**	SampType: **LCS**			Units: **mg/L**		Prep Date: **6/29/2021**			RunNo: **68268**		
Client ID: **LCSW**	Batch ID: **R68268**					Analysis Date: **6/29/2021**			SeqNo: **1378637**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.441	0.100	0.4000	0	110	85	115				

Sample ID: **2106490-001BDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **6/29/2021**			RunNo: **68268**		
Client ID: **BATCH**	Batch ID: **R68268**					Analysis Date: **6/29/2021**			SeqNo: **1378639**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	32.0	5.00						31.54	1.55	20	DH

Sample ID: **2106490-001BMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **6/29/2021**			RunNo: **68268**		
Client ID: **BATCH**	Batch ID: **R68268**					Analysis Date: **6/29/2021**			SeqNo: **1378640**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	56.6	5.00	20.00	31.54	125	70	130				DH

Sample ID: **2106490-001BMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **6/29/2021**			RunNo: **68268**		
Client ID: **BATCH**	Batch ID: **R68268**					Analysis Date: **6/29/2021**			SeqNo: **1378641**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	58.8	5.00	20.00	31.54	136	70	130	56.62	3.69	20	SDH

NOTES:
S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.

Work Order: 2106491
CLIENT: Friedman & Bruya
Project: 106488

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **MB-32859**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **6/30/2021**			RunNo: **68333**		
Client ID: **MBLKW**	Batch ID: **32859**					Analysis Date: **6/30/2021**			SeqNo: **1380471**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.600									

Sample ID: **LCS-32859**	SampType: **LCS**			Units: **mg/L**		Prep Date: **6/30/2021**			RunNo: **68333**		
Client ID: **LCSW**	Batch ID: **32859**					Analysis Date: **6/30/2021**			SeqNo: **1380472**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.91	0.600	3.750	0	104	90	110				

Sample ID: **2106491-001DDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **6/30/2021**			RunNo: **68333**		
Client ID: **MW23-20210625**	Batch ID: **32859**					Analysis Date: **6/30/2021**			SeqNo: **1380477**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	6.00						0		20	D

Sample ID: **2106491-001DMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **6/30/2021**			RunNo: **68333**		
Client ID: **MW23-20210625**	Batch ID: **32859**					Analysis Date: **6/30/2021**			SeqNo: **1380478**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	37.6	6.00	37.50	0	100	80	120				D

Sample ID: **2106491-001DMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **6/30/2021**			RunNo: **68333**		
Client ID: **MW23-20210625**	Batch ID: **32859**					Analysis Date: **6/30/2021**			SeqNo: **1380479**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	38.7	6.00	37.50	0	103	80	120	37.56	2.89	20	D

Work Order: 2106491
CLIENT: Friedman & Bruya
Project: 106488

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **2106524-001ADUP** SampType: **DUP** Units: **mg/L** Prep Date: **6/30/2021** RunNo: **68333**
Client ID: **BATCH** Batch ID: **32859** Analysis Date: **6/30/2021** SeqNo: **1380488**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	14.3	6.00						14.28	0.140	20	D

Sample ID: **2106524-001AMS** SampType: **MS** Units: **mg/L** Prep Date: **6/30/2021** RunNo: **68333**
Client ID: **BATCH** Batch ID: **32859** Analysis Date: **6/30/2021** SeqNo: **1380489**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	52.8	6.00	37.50	14.28	103	80	120				D

Work Order: 2106491
CLIENT: Friedman & Bruya
Project: 106488

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **MB-R68335**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **6/29/2021**	RunNo: **68335**
Client ID: **MBLKW**	Batch ID: **R68335**		Analysis Date: **6/29/2021**	SeqNo: **1380532**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.500									

Sample ID: **LCS-R68335**	SampType: **LCS**	Units: **mg/L**	Prep Date: **6/29/2021**	RunNo: **68335**
Client ID: **LCSW**	Batch ID: **R68335**		Analysis Date: **6/29/2021**	SeqNo: **1380533**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	4.79	0.500	5.000	0	95.8	90.6	113				

Sample ID: **2106475-003DDUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **6/29/2021**	RunNo: **68335**
Client ID: **BATCH**	Batch ID: **R68335**		Analysis Date: **6/29/2021**	SeqNo: **1380536**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	1.27	0.500						1.296	1.71	20	

Sample ID: **2106475-003DMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **6/29/2021**	RunNo: **68335**
Client ID: **BATCH**	Batch ID: **R68335**		Analysis Date: **6/29/2021**	SeqNo: **1380537**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	6.23	0.500	5.000	1.296	98.6	69.1	124				

Sample ID: **2106475-003DMSD**	SampType: **MSD**	Units: **mg/L**	Prep Date: **6/29/2021**	RunNo: **68335**
Client ID: **BATCH**	Batch ID: **R68335**		Analysis Date: **6/29/2021**	SeqNo: **1380538**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.93	0.500	5.000	1.296	92.8	69.1	124	6.226	4.80	30	

Work Order: 2106491
CLIENT: Friedman & Bruya
Project: 106488

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **2106490-002ADUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **6/30/2021**		RunNo: **68335**			
Client ID: **BATCH**	Batch ID: **R68335**					Analysis Date: **6/30/2021**		SeqNo: **1380548**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	97.0	0.500						97.86	0.852	20	E

Sample ID: **2106490-002AMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **6/30/2021**		RunNo: **68335**			
Client ID: **BATCH**	Batch ID: **R68335**					Analysis Date: **6/30/2021**		SeqNo: **1380549**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	101	0.500	5.000	97.86	67.4	69.1	124				ES

NOTES:
S - Analyte concentration was too high for accurate spike recovery(ies).

Work Order: 2106491
CLIENT: Friedman & Bruya
Project: 106488

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: **LCS-R68449** SampType: **LCS** Units: **mg/L** Prep Date: **7/9/2021** RunNo: **68449**
Client ID: **LCSW** Batch ID: **R68449** Analysis Date: **7/9/2021** SeqNo: **1383088**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	930	0.00675	1,000	0	93.0	66.7	141				
Ethene	962	0.0146	1,000	0	96.2	68.6	139				
Ethane	1,020	0.0151	1,000	0	102	69.3	136				

Sample ID: **MB-R68449** SampType: **MBLK** Units: **mg/L** Prep Date: **7/9/2021** RunNo: **68449**
Client ID: **MBLKW** Batch ID: **R68449** Analysis Date: **7/9/2021** SeqNo: **1383089**

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: **2107038-006AREP** SampType: **REP** Units: **mg/L** Prep Date: **7/9/2021** RunNo: **68449**
Client ID: **BATCH** Batch ID: **R68449** Analysis Date: **7/9/2021** SeqNo: **1383081**

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 Log-In Check List

Client Name:	**FB**	Work Order Number:	**2106491**
Logged by:	**Carissa True**	Date Received:	**6/28/2021 9:38:00 AM**

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

Person Notified:	Mike Erdahl	Date:	7/12/2021
By Whom:	Brianna Barnes	Via:	☑ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	Hold time has expired for alkalinity add ons requested on 7/12. OK to proceed?		
Client Instructions:	Proceed out of hold.		

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample 1	11.4

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

210649 1

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

PROJECT NAME/NO.	PO #
106488	B-308

REMARKS

Please Email Results

TURNAROUND TIME

☒ 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	TOC	methane ethane ethene	Sulfate	Fe^{2+}							Notes
MW23-20210625		6/25/21	0910	H_2O	6	X	X	X	X							
MW25-20210625			0915	H_2O	6	X	X	X	X							
MW19-20210625			1003	H_2O	5		X	X	X							
MW22-20210625			1150	H_2O	6	X	X	X	X							
MW18-20210625			1315	H_2O	6	X	X	X	X							
MW21-20210625			1340	H_2O	4	X	X									
MW24-20210625			1443	H_2O	6	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	COMPANY	DATE	TIME
Relinquished by:		Ann Webber-Bruya	Friedman & Bruya	6/28/21	0800
Received by:		Claire Anderson	FRI	6/29/21	0930
Relinquished by:					
Received by:					

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

210649 1

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

PROJECT NAME/NO. 106488

PO # B-308

REMARKS

Please Email Results

edits per M.E. 7/12/21, next day TAT -BB

TURNAROUND TIME

☒ 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	TOC	methane ethane ethene	Sulfate	Fe^{2+}							Notes
MW23-20210625		6/25/21	0910	H_2O	6	X	X	X	X							+Alkalinity
MW25-20210625			0915	H_2O	5	X	X	X	X							+Alkalinity
MW19-20210625			1003	H_2O	5		X	X	X							+Alkalinity
MW22-20210625			1150	H_2O	6	X	X	X	X							+Alkalinity
MW18-20210625			1315	H_2O	6	X	X	X	X							+Alkalinity
MW21-20210625			1340	H_2O	4	X	X									
MW24-20210625			1443	H_2O	6	X	X	X	X							+Alkalinity

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
Relinquished by:		Ann Webber-Bruya	Friedman & Bruya	6/28/21	0800
Received by:		Claire Anderson	FAI	6/29/21	0930
Relinquished by:					
Received by:					

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 12, 2021

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

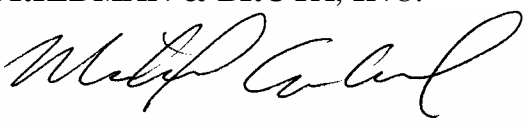
Dear Mr Fernandes:

Included are the results from the testing of material submitted on June 25, 2021 from the SOU_0731-004-05_ 20210625, F&BI 106489 project. There are 13 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: Kyle Lowery
SOU0712R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 25, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-05_ 20210625, F&BI 106489 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
106489 -01	IW61-20210625
106489 -02	IW06-20210625
106489 -03	IW04-20210625
106489 -04	IW50-20210625

Samples IW61-20210625 and IW50-20210625 were sent to Fremont Analytical for dissolved gasses, sulfate, nitrate, alkalinity, TOC, and ferrous iron analyses. Sample IW04-20210625 was sent to Fremont Analytical for sulfate, nitrate, alkalinity, TOC, and ferrous iron analyses. The report is enclosed with the exception of the alkalinity results. Those results will be issued when received.

All quality control requirements were acceptable.

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW61-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	106489-01 x100
Date Analyzed:	07/01/21	Data File:	106489-01 x100.109
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	24,500
Manganese	13,000

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW04-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	106489-03 x100
Date Analyzed:	07/01/21	Data File:	106489-03 x100.110
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	16,800
Manganese	11,200

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW50-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	106489-04 x100
Date Analyzed:	07/01/21	Data File:	106489-04 x100.111
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	16,400
Manganese	13,400

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	06/30/21	Lab ID:	I1-407 mb
Date Analyzed:	06/30/21	Data File:	I1-407 mb.095
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	IW61-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	07/01/21	Lab ID:	106489-01 1/20
Date Analyzed:	07/02/21	Data File:	070220.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	78	126
Toluene-d8	99	87	115
4-Bromofluorobenzene	106	92	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.8
trans-1,2-Dichloroethene	<20
cis-1,2-Dichloroethene	25
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	IW06-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	07/01/21	Lab ID:	106489-02
Date Analyzed:	07/01/21	Data File:	070139.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	86	113
Toluene-d8	94	88	114
4-Bromofluorobenzene	101	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.59
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	3.6
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	IW04-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	07/01/21	Lab ID:	106489-03
Date Analyzed:	07/01/21	Data File:	070140.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	86	113
Toluene-d8	94	88	114
4-Bromofluorobenzene	104	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.46
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	IW50-20210625	Client:	SoundEarth Strategies
Date Received:	06/25/21	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	07/01/21	Lab ID:	106489-04
Date Analyzed:	07/01/21	Data File:	070141.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	86	113
Toluene-d8	94	88	114
4-Bromofluorobenzene	106	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.85
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	1.7
Trichloroethene	<1
Tetrachloroethene	3.7

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-05_ 20210625
Date Extracted:	07/01/21	Lab ID:	01-1510 mb
Date Analyzed:	07/02/21	Data File:	070206.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	103	87	115
4-Bromofluorobenzene	102	92	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.01 j
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.05
Tetrachloroethene	<0.05

Date of Report: 07/12/21
Date Received: 06/25/21
Project: SOU_0731-004-05_ 20210625, F&BI 106489

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

Laboratory Code: 106488-02 (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	16,000	248 b	0 b	70-130	200 b
Manganese	ug/L (ppb)	20	6,210	117 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	99	85-115
Manganese	ug/L (ppb)	20	96	85-115

Date of Report: 07/12/21
Date Received: 06/25/21
Project: SOU_0731-004-05_ 20210625, F&BI 106489

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

Laboratory Code: 107001-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	74	36-166
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	79	61-136
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	86	63-134
Trichloroethene	ug/L (ppb)	10	<1	87	66-135
Tetrachloroethene	ug/L (ppb)	10	2.1	99 b	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	90	97	50-154	7
trans-1,2-Dichloroethene	ug/L (ppb)	10	91	100	68-128	9
cis-1,2-Dichloroethene	ug/L (ppb)	10	99	100	74-136	1
Trichloroethene	ug/L (ppb)	10	100	102	67-133	2
Tetrachloroethene	ug/L (ppb)	10	99	96	76-121	3

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. 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 lowest calibration standard. 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.

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.

106489

Lev Fenaches

SAMPLE CHAIN OF CUSTODY

25 AD 7/12/21

ME 06/28/21

VW2 AI1

Page # 1 of 1

Send Report To ~~Logan Schumacher~~

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature)	
PROJECT NAME/NO. Troy Laundry Property	PO # 0731-004-05
REMARKS *cVOCs = PCE, TCE, Cis/Trans-DCE, and VC	EIM Y

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	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs* by EPA 8260C	Total Fe & Mn ~~EPA 6010C~~ ~~by 1664~~	TOC By EPA 415.1	Methane, Ethane, and Ethene by RSK175	Sulfate by EPA 300.0 / Nitrate / Alkalinity	Notes Fe 2+
IW01-20210625	IW01	—	01A-D	6/25/21	1030	H2O	10				X	X	X	X	X	X
IW06-20210625	IW06	—	02 A-C		1059	H2O	3				X					
IW04-20210625	IW04	—	03 A-D		1141	H2O	7				X	X	X		X	X
IW50-20210625	IW50	—	04 A-D		1440	H2O	10				X	X	X	X	X	X

COT 6/25/21

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
Relinquished by:	Clare Tousley	SoundEarth	6/25/21	1712
Received by:	JOE MOHAMMED	FSBI	6/25/21	1715
Relinquished by:				
Received by:		Samples received at 5 °C		

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

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 106489
Work Order Number: 2106490

July 13, 2021

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 6/28/2021 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

Date: *07/13/2021*

CLIENT: Friedman & Bruya
Project: 106489
Work Order: 2106490

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2106490-001	IW61-20210625	06/25/2021 10:30 AM	06/28/2021 9:38 AM
2106490-002	IW04-20210625	06/25/2021 11:41 AM	06/28/2021 9:38 AM
2106490-003	IW50-20210625	06/25/2021 2:40 PM	06/28/2021 9:38 AM

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

Case Narrative

WO#: **2106490**
Date: **7/13/2021**

CLIENT: Friedman & Bruya
Project: 106489

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.

7/13/2021: Revision 1 includes additional analysis requested by client.

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: **2106490**
Date Reported: **7/13/2021**

Client: Friedman & Bruya
Collection Date: 6/25/2021 10:30:00 AM
Project: 106489
Lab ID: 2106490-001
Matrix: Water
Client Sample ID: IW61-20210625

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68449		Analyst: MS
Methane	2.43	0.135	D	mg/L	20	7/9/2021 10:24:00 AM
Ethene	ND	0.0146		mg/L	1	7/9/2021 11:30:00 AM
Ethane	ND	0.0151		mg/L	1	7/9/2021 11:30:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 32859		Analyst: SS
Sulfate	ND	3.00	D	mg/L	5	7/1/2021 10:46:00 AM
NOTES: Diluted due to matrix.						
Total Organic Carbon by SM 5310C				Batch ID: R68335		Analyst: SS
Total Organic Carbon	66.2	1.00	D	mg/L	2	6/30/2021 9:39:00 AM
Total Alkalinity by SM 2320B				Batch ID: R68478		Analyst: TN
Alkalinity, Total (As CaCO3)	423	2.50	H	mg/L	1	7/12/2021 2:16:46 PM
Ferrous Iron by SM3500-Fe B				Batch ID: R68268		Analyst: SS
Ferrous Iron	31.5	5.00	DH	mg/L	50	6/29/2021 9:40:58 AM

Analytical Report

Work Order: **2106490**
Date Reported: **7/13/2021**

Client: Friedman & Bruya
Project: 106489
Lab ID: 2106490-002
Client Sample ID: **IW04-20210625**

Collection Date: 6/25/2021 11:41:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ion Chromatography by EPA Method 300.0				Batch ID: 32859		Analyst: SS
Sulfate	ND	3.00	D	mg/L	5	7/1/2021 11:09:00 AM
NOTES: Diluted due to matrix.						
Total Organic Carbon by SM 5310C				Batch ID: R68335		Analyst: SS
Total Organic Carbon	93.1	2.00	D	mg/L	4	6/30/2021 9:59:00 AM
Total Alkalinity by SM 2320B				Batch ID: R68478		Analyst: TN
Alkalinity, Total (As CaCO3)	450	2.50	H	mg/L	1	7/12/2021 2:16:46 PM
Ferrous Iron by SM3500-Fe B				Batch ID: R68268		Analyst: SS
Ferrous Iron	23.3	5.00	DH	mg/L	50	6/29/2021 9:40:58 AM

Analytical Report

Work Order: **2106490**
Date Reported: **7/13/2021**

Client: Friedman & Bruya
Project: 106489
Lab ID: 2106490-003
Client Sample ID: **IW50-20210625**

Collection Date: 6/25/2021 2:40:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R68449		Analyst: MS
Methane	3.92	0.135	D	mg/L	20	7/9/2021 10:36:00 AM
Ethene	ND	0.0146		mg/L	1	7/9/2021 11:32:00 AM
Ethane	ND	0.0151		mg/L	1	7/9/2021 11:32:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 32859		Analyst: SS
Sulfate	ND	3.00	D	mg/L	5	7/1/2021 11:32:00 AM
NOTES: Diluted due to matrix.						
Total Organic Carbon by SM 5310C				Batch ID: R68335		Analyst: SS
Total Organic Carbon	16.1	0.500		mg/L	1	6/30/2021 2:09:00 AM
Total Alkalinity by SM 2320B				Batch ID: R68478		Analyst: TN
Alkalinity, Total (As CaCO3)	449	2.50	H	mg/L	1	7/12/2021 2:16:46 PM
Ferrous Iron by SM3500-Fe B				Batch ID: R68268		Analyst: SS
Ferrous Iron	24.8	5.00	DH	mg/L	50	6/29/2021 9:40:58 AM

Work Order: 2106490
CLIENT: Friedman & Bruya
Project: 106489

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

Sample ID: **MB-R68478**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **7/12/2021**			RunNo: **68478**		
Client ID: **MBLKW**	Batch ID: **R68478**					Analysis Date: **7/12/2021**			SeqNo: **1383903**		
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-R68478**	SampType: **LCS**			Units: **mg/L**		Prep Date: **7/12/2021**			RunNo: **68478**		
Client ID: **LCSW**	Batch ID: **R68478**					Analysis Date: **7/12/2021**			SeqNo: **1383904**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	89.3	2.50	100.0	0	89.3	88.3	113				

Sample ID: **2106490-002CDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **7/12/2021**			RunNo: **68478**		
Client ID: **IW04-20210625**	Batch ID: **R68478**					Analysis Date: **7/12/2021**			SeqNo: **1383907**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	450	2.50						450.1	0	20	H

Work Order: 2106490
CLIENT: Friedman & Bruya
Project: 106489

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **MB-R68268**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **6/29/2021**			RunNo: **68268**		
Client ID: **MBLKW**	Batch ID: **R68268**					Analysis Date: **6/29/2021**			SeqNo: **1378636**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.100									

Sample ID: **LCS-R68268**	SampType: **LCS**			Units: **mg/L**		Prep Date: **6/29/2021**			RunNo: **68268**		
Client ID: **LCSW**	Batch ID: **R68268**					Analysis Date: **6/29/2021**			SeqNo: **1378637**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.441	0.100	0.4000	0	110	85	115				

Sample ID: **2106490-001BDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **6/29/2021**			RunNo: **68268**		
Client ID: **IW61-20210625**	Batch ID: **R68268**					Analysis Date: **6/29/2021**			SeqNo: **1378639**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	32.0	5.00						31.54	1.55	20	DH

Sample ID: **2106490-001BMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **6/29/2021**			RunNo: **68268**		
Client ID: **IW61-20210625**	Batch ID: **R68268**					Analysis Date: **6/29/2021**			SeqNo: **1378640**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	56.6	5.00	20.00	31.54	125	70	130				DH

Sample ID: **2106490-001BMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **6/29/2021**			RunNo: **68268**		
Client ID: **IW61-20210625**	Batch ID: **R68268**					Analysis Date: **6/29/2021**			SeqNo: **1378641**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	58.8	5.00	20.00	31.54	136	70	130	56.62	3.69	20	DSH

NOTES:
S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.

Work Order: 2106490
CLIENT: Friedman & Bruya
Project: 106489

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **MB-32859**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **6/30/2021**			RunNo: **68333**		
Client ID: **MBLKW**	Batch ID: **32859**					Analysis Date: **6/30/2021**			SeqNo: **1380471**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.600									

Sample ID: **LCS-32859**	SampType: **LCS**			Units: **mg/L**		Prep Date: **6/30/2021**			RunNo: **68333**		
Client ID: **LCSW**	Batch ID: **32859**					Analysis Date: **6/30/2021**			SeqNo: **1380472**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.91	0.600	3.750	0	104	90	110				

Sample ID: **2106491-001DDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **6/30/2021**			RunNo: **68333**		
Client ID: **BATCH**	Batch ID: **32859**					Analysis Date: **6/30/2021**			SeqNo: **1380477**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	6.00						0		20	D

Sample ID: **2106491-001DMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **6/30/2021**			RunNo: **68333**		
Client ID: **BATCH**	Batch ID: **32859**					Analysis Date: **6/30/2021**			SeqNo: **1380478**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	37.6	6.00	37.50	0	100	80	120				D

Sample ID: **2106491-001DMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **6/30/2021**			RunNo: **68333**		
Client ID: **BATCH**	Batch ID: **32859**					Analysis Date: **6/30/2021**			SeqNo: **1380479**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	38.7	6.00	37.50	0	103	80	120	37.56	2.89	20	D

Work Order: 2106490
CLIENT: Friedman & Bruya
Project: 106489

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **2106524-001ADUP** SampType: **DUP** Units: **mg/L** Prep Date: **6/30/2021** RunNo: **68333**
Client ID: **BATCH** Batch ID: **32859** Analysis Date: **6/30/2021** SeqNo: **1380488**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	14.3	6.00						14.28	0.140	20	D

Sample ID: **2106524-001AMS** SampType: **MS** Units: **mg/L** Prep Date: **6/30/2021** RunNo: **68333**
Client ID: **BATCH** Batch ID: **32859** Analysis Date: **6/30/2021** SeqNo: **1380489**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	52.8	6.00	37.50	14.28	103	80	120				D

Work Order: 2106490
CLIENT: Friedman & Bruya
Project: 106489

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **MB-R68335**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **6/29/2021**		RunNo: **68335**		
Client ID: **MBLKW**	Batch ID: **R68335**					Analysis Date: **6/29/2021**		SeqNo: **1380532**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.500									

Sample ID: **LCS-R68335**	SampType: **LCS**			Units: **mg/L**		Prep Date: **6/29/2021**		RunNo: **68335**		
Client ID: **LCSW**	Batch ID: **R68335**					Analysis Date: **6/29/2021**		SeqNo: **1380533**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	4.79	0.500	5.000	0	95.8	90.6	113				

Sample ID: **2106475-003DDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **6/29/2021**		RunNo: **68335**		
Client ID: **BATCH**	Batch ID: **R68335**					Analysis Date: **6/29/2021**		SeqNo: **1380536**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	1.27	0.500						1.296	1.71	20	

Sample ID: **2106475-003DMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **6/29/2021**		RunNo: **68335**		
Client ID: **BATCH**	Batch ID: **R68335**					Analysis Date: **6/29/2021**		SeqNo: **1380537**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	6.23	0.500	5.000	1.296	98.6	69.1	124				

Sample ID: **2106475-003DMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **6/29/2021**		RunNo: **68335**		
Client ID: **BATCH**	Batch ID: **R68335**					Analysis Date: **6/29/2021**		SeqNo: **1380538**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.93	0.500	5.000	1.296	92.8	69.1	124	6.226	4.80	30	

Work Order: 2106490
CLIENT: Friedman & Bruya
Project: 106489

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **2106490-002ADUP** SampType: **DUP** Units: **mg/L** Prep Date: **6/30/2021** RunNo: **68335**
Client ID: **IW04-20210625** Batch ID: **R68335** Analysis Date: **6/30/2021** SeqNo: **1380548**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	97.0	0.500						97.86	0.852	20	E

Sample ID: **2106490-002AMS** SampType: **MS** Units: **mg/L** Prep Date: **6/30/2021** RunNo: **68335**
Client ID: **IW04-20210625** Batch ID: **R68335** Analysis Date: **6/30/2021** SeqNo: **1380549**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	101	0.500	5.000	97.86	67.4	69.1	124				ES

NOTES:
S - Analyte concentration was too high for accurate spike recovery(ies).

Work Order: 2106490
CLIENT: Friedman & Bruya
Project: 106489

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: **LCS-R68449** SampType: **LCS** Units: **mg/L** Prep Date: **7/9/2021** RunNo: **68449**
Client ID: **LCSW** Batch ID: **R68449** Analysis Date: **7/9/2021** SeqNo: **1383088**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	930	0.00675	1,000	0	93.0	66.7	141				
Ethene	962	0.0146	1,000	0	96.2	68.6	139				
Ethane	1,020	0.0151	1,000	0	102	69.3	136				

Sample ID: **MB-R68449** SampType: **MBLK** Units: **mg/L** Prep Date: **7/9/2021** RunNo: **68449**
Client ID: **MBLKW** Batch ID: **R68449** Analysis Date: **7/9/2021** SeqNo: **1383089**

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: **2107038-006AREP** SampType: **REP** Units: **mg/L** Prep Date: **7/9/2021** RunNo: **68449**
Client ID: **BATCH** Batch ID: **R68449** Analysis Date: **7/9/2021** SeqNo: **1383081**

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 Log-In Check List

Client Name:	**FB**	Work Order Number:	**2106490**
Logged by:	**Carissa True**	Date Received:	**6/28/2021 9:38:00 AM**

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

Person Notified:	Mike Erdahl	Date:	7/12/2021
By Whom:	Brianna Barnes	Via:	☑ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	Hold time has expired for alkalinity add ons requested on 7/12. OK to proceed?		
Client Instructions:	Proceed out of hold.		

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample 1	11.4

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

106490

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

PROJECT NAME/NO.	PO #
106489	B-308

REMARKS

Please Email Results

TURNAROUND TIME

☒ 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	TOC	Methane, Ethane, Ethene	Sulfate	Fe^{2+}							Notes
IW61-20210625		6/25/21	1030	H_2O	6	x	x	x	x							
IW04-20210625		"	1141	H_2O	5	x		x	x							
IW50-20210625		"	1440	H_2O	6	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	COMPANY	DATE	TIME
Relinquished by:		Ann Webber-Bruya	Friedman & Bruya	6/28/21	0800
Received by:		Claire Anderson	FBI	6/28/21	0933
Relinquished by:					
Received by:					

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

106490

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

PROJECT NAME/NO.	PO #
106489	B-308

REMARKS

Please Email Results

Edits per M.E. 7/12/21, Next day TAT -BB

TURNAROUND TIME

☒ 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	TOC	Methane, Ethane, Ethene	Sulfate	Fe^{2+}							Notes
IW61-20210625		6/25/21	1030	H_2O	6	x	x	x	x							+ Alkalinity
IW04-20210625		"	1141	H_2O	5	x		x	x							+ Alkalinity
IW50-20210625		"	1440	H_2O	6	x	x	x	x							+ Alkalinity

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
Relinquished by:		Ann Webber-Bruya	Friedman & Bruya	6/28/21	0800
Received by:			FBI	6/28/21	0933
Relinquished by:					
Received by:					

SiREM
Leading Science · Lasting Solutions

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

Analytical Results

Client: SoundEarth Strategies, Inc.
Client Project Number: 0731-004-08
Date Samples Received: June 29, 2021
Date Samples Analyzed: July 13, 2021

SiREM File Reference: S-8169

Client Sample ID	SiREM Reference ID	Client Sample Date	Sample Dilution Factor	Lactate	Acetate	Propionate	Formate	Butyrate	Pyruvate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW23-20210625	21-5389	25-Jun-21	50	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
MW25-20210625	21-5390	25-Jun-21	50	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
IW61-20210625	21-5391	25-Jun-21	50	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
IW04-20210625	21-5392	25-Jun-21	50	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
MW22-20210625	21-5393	25-Jun-21	50	<0.39	254	14	<0.22	36	2.4
MW18-20210625	21-5394	25-Jun-21	50	<0.39	1.8	<0.31	<0.22	<0.41	<0.69
MW21-20210625	21-5395	25-Jun-21	50	<0.39	189	85	<0.22	50	15
IW50-20210625	21-5396	25-Jun-21	50	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
MW24-20210625	21-5397	25-Jun-21	50	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
		QL	50	0.39	0.54	0.31	0.22	0.41	0.69

Comments:
QL = Quantitation limit
< = compound analysed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst:

Rachel Hallman
Laboratory Technician

Results approved:

Michael Healey, B.Sc.
Treatability and SP3™ Services Coordinator

Date:

15-Jul-21

SiREM

Chain-of-Custody Form

siremlab.com

130 Research Lane, Ste 2
Guelph ON, Canada N1G 5G3
(519) 822-2265

Lab # S-8169

Project Name	Troy Laundry Property
Project #	0731-004-08
Project Manager	Tom Cannarata
Email	TCannarata@SoundEarthInc.com
Company	Sound Earth Strategies, INC.
Address	2811 Fairview Avenue E, Suite 2000 Seattle, WA 98102
Phone #	(206)-306-1900
Fax #	
Sampler's Signature	Kyle Lowery
Sampler's Printed Name	Kyle Lowery

Analysis

Preservative: VFA (Volatile Fatty Acids)

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

Client Sample ID	Lab ID	Sampling Date	Sampling Time	Matrix	# of Containers	Preservative	Other Information
MW23-20210625		6/25/21	0910	WATER	2	X	
MW25-20210625		"	0915	"	"		
IW61-20210625			1030				
IW04-20210625			1141				
MW22-20210625			1150				
MW18-20210625			1315				
MW21-20210625			1340				
IW50-20210625			1440				
MW24-20210625			1443				

KJC 06/28/21

Sample Receipt

Cooler Condition: Good-wet ice

Cooler Temperature: KY00058 6.0°C

Custody Seals: Yes ☐ No ☑

Invoice Information

P.O. # 0731-004-08

Bill To:

For Lab Use Only

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Kyle Lowery	Signature: Susan Thomas	Signature	Signature	Signature	Signature
Printed Name: Kyle Lowery	Printed Name: Susan Thomas	Printed Name	Printed Name	Printed Name	Printed Name
Firm: SoundEarth	Firm: SiREM	Firm	Firm	Firm	Firm
Date/Time: 06/28/21	Date/Time: 6-29-2021 1130	Date/Time	Date/Time	Date/Time	Date/Time

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

SiREM

Chain-of-Custody Form

siremlab.com

1808 Market Place Blvd
Knoxville, TN 37922
1-866-251-1747

Lab # S-8169

*Project Name: Troy Laundry Property	*Project #: 0731-004-08
*Project Manager: Tom Cammarata	*Company: Sound Earth Strategies
*Email Address: TCammarata@Soundearthinc.com	
Address (Street): 2811 Fairview Avenue E, Suite 2000	
City: Seattle / State/Province: WA / Country: USA	
*Phone #: 206-306-1900	
*Sampler's Signature: Susan Thomas / *Sampler's Printed Name: Susan Thomas	

Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	Gene-Trac DHC	Gene-Trac FGA	Gene-Trac DHB	Gene-Trac DHGM	Gene-Trac SRB	Volatile Fatty Acids	Dissolved hydrocarbon gases	Treatability Study	VFA	Vial #'s	Other Information
MW23-20210625	7-6-2021	1300	Vials	2									X	1	
MW25-20210625				2									X	2	
IW61-20210625				2									X	3	
IW04-20210625				2									X	4	
MW22-20210625				2									X	5	
MW18-20210625				2									X	6	
MW21-20210625				2									X	7	
IW50-20210625				2									X	8	
MW24-20210625				2									X	9	

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

Billing Information

P.O. # 0731-004-08

*Bill To:

Turnaround Time Requested

Normal ☑

Rush ☐

For Lab Use Only

Cooler Condition: Good

Cooler Temperature: Dry Ice

Custody Seals: Yes ☐ No ☑

For Lab Use Only

Proposal #: ____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Susan Thomas	Signature: Jordan Linkletter	Signature:	Signature:	Signature:	Signature:
Printed Name: Susan Thomas	Printed Name: Jordan Linkletter	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: SiREM	Firm: SiREM	Firm:	Firm:	Firm:	Firm:
Date/Time: 7-6-2021 1500	Date/Time: 07/8/21 3:45pm	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

* Mandatory Fields

SiREM

COPY

Chain-of-Custody Form

siremlab.com

COPY

130 Research Lane, Ste 2
Guelph ON, Canada N1G 5G3
(519) 822-2265

Lab # LS-8169

Project Name	Troy Laundry Property
Project #	0731-004-08
Project Manager	Tom Cammaratta
Email	TCammaratta@SoundEarthInc.com
Company	Sound Earth Strategies, INC.
Address	2811 Fairview Avenue E, Suite 2000 Seattle, WA 98102
Phone #	(206)-306-1900
Fax #	
Sampler's Signature	Kyle Lowery
Sampler's Printed Name	Kyle Lowery

Analysis

Preservative

VFA (Sulfuric Acid)

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

Client Sample ID	Lab ID	Sampling Date	Sampling Time	Matrix	# of Containers	VFA (Sulfuric Acid)	Other Information
MW23-20210625		6/25/21	0910	WATER	2	X	
MW25-20210625			0915				
IW61-20210625			1030				
IW04-20210625			1141				
MW22-20210625			1150				
MW18-20210625			1315				
MW21-20210625			1340				
IW50-20210625			1440				
MW24-20210625			1443				

KJC 06/28/21

Sample Receipt

Cooler Condition: Good-wet ice

Cooler Temperature: KY00058 6.0°C

Custody Seals: Yes ☐ No ☑

Invoice Information

P.O. # 0731-004-08

Bill To:

For Lab Use Only

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Kyle Lowery	Signature: Susan Thomas	Signature:	Signature:	Signature:	Signature:
Printed Name: Kyle Lowery	Printed Name: Susan Thomas	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: SoundEarth	Firm: SiREM	Firm:	Firm:	Firm:	Firm:
Date/Time: 06/28/21	Date/Time: 6-29-2021 1130	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

August 2021 Supplemental Sampling

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 23, 2021

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Fernandes:

Included are the results from the testing of material submitted on August 17, 2021 from the SOU_0731-004-05_ 20210817, F&BI 108261 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: Kyle Lowrey
SOU0823R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 17, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-05_ 20210817, F&BI 108261 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
108261 -01	MW28-20210817

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW28-20210817	Client:	SoundEarth Strategies
Date Received:	08/17/21	Project:	SOU_0731-004-05_ 20210817, F&BI 108261
Date Extracted:	08/18/21	Lab ID:	108261-01
Date Analyzed:	08/18/21	Data File:	081807.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	102	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	18
Trichloroethene	3.9
Tetrachloroethene	7.6

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-05_ 20210817, F&BI 108261
Date Extracted:	08/18/21	Lab ID:	01-1850 mb
Date Analyzed:	08/18/21	Data File:	081806.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	85	117
Toluene-d8	110	88	112
4-Bromofluorobenzene	102	90	111

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

Date of Report: 08/23/21
Date Received: 08/17/21
Project: SOU_ 0731-004-05_ 20210817, F&BI 108261

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

Laboratory Code: 108240-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	101	36-166
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	98	61-136
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	100	63-134
Trichloroethene	ug/L (ppb)	10	<1	93	66-135
Tetrachloroethene	ug/L (ppb)	10	<1	100	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	102	99	50-154	3
trans-1,2-Dichloroethene	ug/L (ppb)	10	97	94	68-128	3
cis-1,2-Dichloroethene	ug/L (ppb)	10	102	98	74-136	4
Trichloroethene	ug/L (ppb)	10	91	90	67-133	1
Tetrachloroethene	ug/L (ppb)	10	99	97	76-121	2

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. 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 lowest calibration standard. 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.

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

108261

ME 8/17/21

VW2

Page # 1 of 1

Send Report To ~~Logan Schumacher~~ Levi Fernandes
Kyle Lowery

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) Kyle Lowery

PROJECT NAME/NO. Troy Laundry Property

PO # 0731-004-05

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

EIM Y

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	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs* by EPA 8260C	FOG by 1664	TOC By EPA 415.1	Methane, Ethane, and Ethene by RSK175	Sulfate by EPA 300.0	Notes
MW28-20210817	MW28	–	01A3C	08/17/21	1155	H2O	3				X					

Samples received at 8 °C

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
Relinquished by:	Kyle Lowery	Kyle Lowery	SES	08/17/21	1255
Received by:		VINH	FBA	8/17/21	1255
Relinquished by:					
Received by:					

September 2021 Supplemental Sampling

DRAFT

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW28-20210921	Client:	SoundEarth Strategies
Date Received:	09/21/21	Project:	SOU_0731-004-05_ 20210921
Date Extracted:	09/22/21	Lab ID:	109355-01
Date Analyzed:	09/22/21 14:13	Data File:	092223.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	78	126
Toluene-d8	94	87	115
4-Bromofluorobenzene	103	92	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.10
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	15
Trichloroethene	3.4
Tetrachloroethene	7.5

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-05_ 20210921
Date Extracted:	09/22/21	Lab ID:	01-2128 mb
Date Analyzed:	09/22/21	Data File:	092207.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	102	87	115
4-Bromofluorobenzene	105	92	112

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

SAMPLE CHAIN OF CUSTODY

109355

ME 09/21/21

Page # 1 of 1 VW1

Send Report To Kyle Lowery / Levi Fairbanks

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature)	
PROJECT NAME/NO. Troy Laundry Property	PO # 0731-004-05
REMARKS *cVOCs = PCE, TCE, Cis/Trans-DCE, and VC	EIM Y

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	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs* by EPA 8260C	FOG by 1664	TOC By EPA 415.1	Methane, Ethane, and Ethene by RSK175	Sulfate by EPA 300.0	Notes
			01													
MW28-20210921	MW28	—	A-C	09/21/21	1025	H2O	3				X					

Kh 9/21/21

Samples received at 4°C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Kyle Lowery	SES	09/21/21	1205
Received by:	Khoi Hoang	FBL	9/21/21	12:05
Relinquished by:				
Received by:				

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

Fourth Quarter 2021

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

January 10, 2022

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Fernandes:

Included is the amended report from the testing of material submitted on December 15, 2021 from the SOU_0731-004-08_ 20211215, F&BI 112310 project. The results for MW32-20211215 are included.

We apologize for the inconvenience and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Clare Tochilin
SOU0104R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
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Eric Young, B.S.

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January 4, 2022

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Fernandes:

Included are the results from the testing of material submitted on December 15, 2021 from the SOU_0731-004-08_ 20211215, F&BI 112310 project. There are 18 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: Clare Tochilin
SOU0104R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 15, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_ 20211215, F&BI 112310 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
112310 -01	MW26-20211215
112310 -02	MW29-20211215
112310 -03	MW01-20211215
112310 -04	MW30-20211215
112310 -05	MW04-20211215
112310 -06	MW07-20211215
112310 -07	MW31-20211215
112310 -08	MW27-20211215
112310 -09	MW32-20211215

Samples MW26-20211215, MW04-20211215, and MW07-20211215 were sent to Fremont Analytical for dissolved gasses, nitrate, sulfate, alkalinity, and ferrous iron. In addition, samples MW26-20211215 and MW07-20211215 were sent to Fremont for total organic carbon analysis. The report is enclosed.

All quality control requirements were acceptable.

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW26-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/16/21	Lab ID:	112310-01
Date Analyzed:	12/17/21	Data File:	112310-01.088
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	371
Manganese	496

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW04-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/16/21	Lab ID:	112310-05
Date Analyzed:	12/17/21	Data File:	112310-05.089
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	104
Manganese	2.26

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW07-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/16/21	Lab ID:	112310-06
Date Analyzed:	12/17/21	Data File:	112310-06.090
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	133
Manganese	8.50

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_ 20211215
Date Extracted:	12/16/21	Lab ID:	I1-838 mb
Date Analyzed:	12/16/21	Data File:	I1-838 mb.115
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW26-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/21	Lab ID:	112310-01
Date Analyzed:	12/21/21	Data File:	122133.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	103	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	7.9
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW29-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/21	Lab ID:	112310-02
Date Analyzed:	12/21/21	Data File:	122134.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	85	117
Toluene-d8	97	88	112
4-Bromofluorobenzene	102	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	14
Trichloroethene	12
Tetrachloroethene	15

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW01-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/21	Lab ID:	112310-03
Date Analyzed:	12/21/21	Data File:	122135.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	100	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	0.50
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW30-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/21	Lab ID:	112310-04
Date Analyzed:	12/21/21	Data File:	122136.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	103	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	5.2
Trichloroethene	2.2
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW04-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/21	Lab ID:	112310-05
Date Analyzed:	12/21/21	Data File:	122137.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	85	117
Toluene-d8	96	88	112
4-Bromofluorobenzene	98	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	7.8
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW07-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/21	Lab ID:	112310-06
Date Analyzed:	12/21/21	Data File:	122138.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	85	117
Toluene-d8	96	88	112
4-Bromofluorobenzene	101	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	7.2
Tetrachloroethene	2.0

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW31-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/21	Lab ID:	112310-07
Date Analyzed:	12/21/21	Data File:	122139.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	85	117
Toluene-d8	96	88	112
4-Bromofluorobenzene	102	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	6.3
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW27-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/21	Lab ID:	112310-08
Date Analyzed:	12/21/21	Data File:	122140.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	98	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	8.2
Trichloroethene	28
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW32-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/22	Lab ID:	112310-09
Date Analyzed:	12/22/21	Data File:	122214.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	100	90	111

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

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_ 20211215
Date Extracted:	12/20/21	Lab ID:	01-2839 mb
Date Analyzed:	12/20/21	Data File:	122014.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	85	117
Toluene-d8	96	88	112
4-Bromofluorobenzene	100	90	111

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

Date of Report: 01/04/22
Date Received: 12/15/21
Project: SOU_0731-004-08_ 20211215, F&BI 112310

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

Laboratory Code: 112312-01 (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	4,820	0 b	191 b	70-130	200 b
Manganese	ug/L (ppb)	20	2,520	6 b	267 b	70-130	191 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	91	85-115
Manganese	ug/L (ppb)	20	94	85-115

Date of Report: 01/04/22
Date Received: 12/15/21
Project: SOU_0731-004-08_ 20211215, F&BI 112310

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

Laboratory Code: 112280-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	91	36-166
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	100	61-136
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	101	63-134
Trichloroethene	ug/L (ppb)	10	<1	91	66-135
Tetrachloroethene	ug/L (ppb)	10	<1	91	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	91	91	50-154	0
trans-1,2-Dichloroethene	ug/L (ppb)	10	100	100	68-128	0
cis-1,2-Dichloroethene	ug/L (ppb)	10	101	100	74-136	1
Trichloroethene	ug/L (ppb)	10	91	92	67-133	1
Tetrachloroethene	ug/L (ppb)	10	91	92	76-121	1

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. 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 lowest calibration standard. 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.

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.

112310

SAMPLE CHAIN OF CUSTODY

ME 12/15/21

EDB
AI2
VW3

Page # 1 of 1

Send Report To Levi Fernandes, cc Clare Tochilin

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature)

PROJECT NAME/NO.	PO #
Troy Laundry Property	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
⊗ 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
MW26-20211215	MW26	—	01 A-J	12/15/21	0850	H_2O	10				X	X	X	X	X	X	
MW29-20211215	MW29	—	02 A-C	12/15/21	0955	H_2O	3				X						
MW01-20211215	MW01	—	03	12/15/21	1025	H_2O	3				X						
MW30-20211215	MW30	—	04	12/15/21	1043	H_2O	3				X						
MW04-20211215	MW04	—	05 A-I	12/15/21	1148	H_2O	9				X	X	X	X	X		
MW07-20211215	MW07		06 A-J	12/15/21	1321	H_2O	10				X	X	X	X	X	X	
MW31-20211215	MW31	—	07 A-C	12/15/21	1347	H_2O	3				X						
MW24-20211215	MW24	—	08	12/15/21	1416	H_2O	3				X						
MW32-20211215	MW32	—	09	12/15/21	1211	H_2O	3				X						
					BDB	12/15/21											

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
Relinquished by: Brennan Booher	Brennan Booher	SoundEarth Strategies	12/15/21	17:35
Received by: [illegible]	VINH	FBI	12/15/21	17:35
Relinquished by:				
Received by:		Samples received at 4 °C		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 28, 2021

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Fernandes:

Included is the amended report from the testing of material submitted on December 15, 2021 from the SOU_0731-004-08_ 20211215, F&BI 112311 project. Per your request, the vinyl chloride reporting limit was raised to <0.2 ug/L.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Clare Tochilin
SOU1223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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Seattle, WA 98119-2029
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fbi@isomedia.com
www.friedmanandbruya.com

December 23, 2021

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Fernandes:

Included are the results from the testing of material submitted on December 15, 2021 from the SOU_0731-004-08_ 20211215, F&BI 112311 project. There are 7 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: Clare Tochilin
SOU1223R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 15, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_ 20211215, F&BI 112311 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
112311 -01	ONNI-MW-5-20211214
112311 -02	ONNI-MW-9-20211214
112311 -03	ONNI-MW-4-20211215

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	ONNI-MW-5-20211214	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/21	Lab ID:	112311-01
Date Analyzed:	12/21/21	Data File:	122118.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	85	117
Toluene-d8	93	88	112
4-Bromofluorobenzene	101	90	111

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	ONNI-MW-9-20211214	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/21	Lab ID:	112311-02
Date Analyzed:	12/21/21	Data File:	122119.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	85	117
Toluene-d8	95	88	112
4-Bromofluorobenzene	99	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	1.3
Trichloroethene	<0.5
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	ONNI-MW-4-20211215	Client:	SoundEarth Strategies
Date Received:	12/15/21	Project:	SOU_0731-004-08_ 20211215
Date Extracted:	12/20/21	Lab ID:	112311-03
Date Analyzed:	12/21/21	Data File:	122120.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	85	117
Toluene-d8	101	88	112
4-Bromofluorobenzene	99	90	111

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

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_ 20211215
Date Extracted:	12/20/21	Lab ID:	01-2838 mb
Date Analyzed:	12/20/21	Data File:	122007.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	85	117
Toluene-d8	96	88	112
4-Bromofluorobenzene	98	90	111

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

Date of Report: 12/23/21
Date Received: 12/15/21
Project: SOU_0731-004-08_ 20211215, F&BI 112311

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

Laboratory Code: 112368-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	111	16-176
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	98	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	98	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	93	43-133
Tetrachloroethene	ug/L (ppb)	10	<1	96	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	106	112	70-130	6
trans-1,2-Dichloroethene	ug/L (ppb)	10	96	99	70-130	3
cis-1,2-Dichloroethene	ug/L (ppb)	10	100	99	70-130	1
Trichloroethene	ug/L (ppb)	10	91	93	70-130	2
Tetrachloroethene	ug/L (ppb)	10	93	95	70-130	2

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. 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 lowest calibration standard. 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.

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

112311

ME 12/15/21

Page # 1 of 1 VW 2

Send Report To Levi Fernandes, cc Clare Tochilin

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature)

PROJECT NAME/NO.	PO #
Troy Laundry Property	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

⊗ 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
ONNI-MW-5_20211214	ONNI-MW-5	—	01A/C	12/14/21	1410	H2O	3				X						
ONNI-MW-9-20211214	ONNI-MW-9	—	02	12/14/21	1551	H2O	3				X						
ONNI-MW-4_20211215	ONNI-MW-4	—	03	12/15/21	0905	H2O	3				X						

CJT 20211215

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Brennan Booher	Brennan Booher	SoundEarth Strategies	12/15/21	1735
Received by:	VINH	FEDEX	12/15/21	1735
Relinquished by:				
Received by:		Samples received at 4 °C		

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 29, 2021

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms Fernandes:

Included are the results from the testing of material submitted on December 16, 2021 from the SOU_0731-004-08_ 20211216, F&BI 112344 project. There are 15 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: Clare Tochilin
SOU1229R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 16, 2020 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_ 20211216, F&BI 112344 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
112344 -01	MW33-20211216
112344 -02	MW13-20211216
112344 -03	MW34-20211216
112344 -04	MW28-20211216

Samples MW28-20211216 was sent to Fremont Analytical for dissolved gasses, sulfate, nitrate, alkalinity, and ferrous iron analyses.

All quality control requirements were acceptable.

Date of Report: 12/29/21
Date Received: 12/16/21
Project: SOU_0731-004-08_ 20211216, F&BI 112344
Date Extracted: 12/21/21
Date Analyzed: 12/21/21

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
MW13-20211216 112344-02	<100	83
MW28-20211216 112344-04	<100	88
Method Blank 01-2675 MB	<100	87

Date of Report: 12/29/21
Date Received: 12/16/21
Project: SOU_0731-004-08_ 20211216, F&BI 112344
Date Extracted: 12/17/21
Date Analyzed: 12/17/21

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

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
MW13-20211216 112344-02	<50	<250	125
MW28-20211216 112344-04	190 x	600	116
Method Blank 01-2898 MB	<50	<250	107

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW28-20211216	Client:	SoundEarth Strategies
Date Received:	12/16/21	Project:	SOU_0731-004-08_ 20211216
Date Extracted:	12/20/21	Lab ID:	112344-04 x10
Date Analyzed:	12/20/21	Data File:	112344-04 x10.141
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	7,380
Manganese	744

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_ 20211216
Date Extracted:	12/20/21	Lab ID:	I1-847 mb
Date Analyzed:	12/20/21	Data File:	I1-847 mb.116
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW33-20211216	Client:	SoundEarth Strategies
Date Received:	12/16/21	Project:	SOU_0731-004-08_ 20211216
Date Extracted:	12/17/21	Lab ID:	112344-01
Date Analyzed:	12/17/21	Data File:	121736.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	85	117
Toluene-d8	102	88	112
4-Bromofluorobenzene	102	90	111

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW13-20211216	Client:	SoundEarth Strategies
Date Received:	12/16/21	Project:	SOU_0731-004-08_ 20211216
Date Extracted:	12/17/21	Lab ID:	112344-02
Date Analyzed:	12/17/21	Data File:	121737.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	113	85	117
Toluene-d8	97	88	112
4-Bromofluorobenzene	98	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
1,1-Dichloroethene	<1
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	1.0
Tetrachloroethene	5.2

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW34-20211216	Client:	SoundEarth Strategies
Date Received:	12/16/21	Project:	SOU_0731-004-08_ 20211216
Date Extracted:	12/17/21	Lab ID:	112344-03
Date Analyzed:	12/17/21	Data File:	121738.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	85	117
Toluene-d8	98	88	112
4-Bromofluorobenzene	100	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
1,1-Dichloroethene	<1
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	5.3
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW28-20211216	Client:	SoundEarth Strategies
Date Received:	12/16/21	Project:	SOU_0731-004-08_ 20211216
Date Extracted:	12/17/21	Lab ID:	112344-04
Date Analyzed:	12/17/21	Data File:	121739.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	100	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
1,1-Dichloroethene	<1
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	17
Trichloroethene	2.8
Tetrachloroethene	5.2

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_ 20211216
Date Extracted:	12/17/21	Lab ID:	01-2836 mb
Date Analyzed:	12/17/21	Data File:	121707.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	85	117
Toluene-d8	95	88	112
4-Bromofluorobenzene	101	90	111

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

Date of Report: 12/29/21
Date Received: 12/16/21
Project: SOU_0731-004-08_ 20211216, F&BI 112344

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

Laboratory Code: 112389-01 (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	91	69-134

Date of Report: 12/29/21
Date Received: 12/16/21
Project: SOU_0731-004-08_ 20211216, F&BI 112344

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

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	104	108	63-142	4

Date of Report: 12/29/21
Date Received: 12/16/21
Project: SOU_0731-004-08_ 20211216, F&BI 112344

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

Laboratory Code: 112248-01 (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	143	84	87	70-130	4
Manganese	ug/L (ppb)	20	50.4	85	90	70-130	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	108	85-115
Manganese	ug/L (ppb)	20	90	85-115

Date of Report: 12/29/21
Date Received: 12/16/21
Project: SOU_0731-004-08_ 20211216, F&BI 112344

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

Laboratory Code: 112338-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	112	16-176
1,1-Dichloroethene	ug/L (ppb)	10	<1	94	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	96	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	101	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	93	43-133
Tetrachloroethene	ug/L (ppb)	10	<1	94	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	110	111	70-130	1
1,1-Dichloroethene	ug/L (ppb)	10	93	101	70-130	8
trans-1,2-Dichloroethene	ug/L (ppb)	10	96	97	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	96	98	70-130	2
Trichloroethene	ug/L (ppb)	10	89	92	70-130	3
Tetrachloroethene	ug/L (ppb)	10	93	95	70-130	2

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. 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 lowest calibration standard. 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.

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.

112344

SAMPLE CHAIN OF CUSTODY

12-16-21

AJ1/ED03/VW3

Page # 1 of 1

Send Report To Levi Fernandes, cc Clare Tochilin

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

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

⊗ 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
MW33-20211216	MW33	—	01A-G	12/16/21	0828	H2O	3				X						
MW13-20211216	MW13	—	02A-G		0907	H2O	7	X		X	X						
MW34-20211216	MW34	—	03A-G		1024	H2O	3				X						
MW28-20211216	MW28	—	04A-H		1229	H2O	13	X		X	X	X	X	X	X		

CT 12/16/21

Samples received at 4 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
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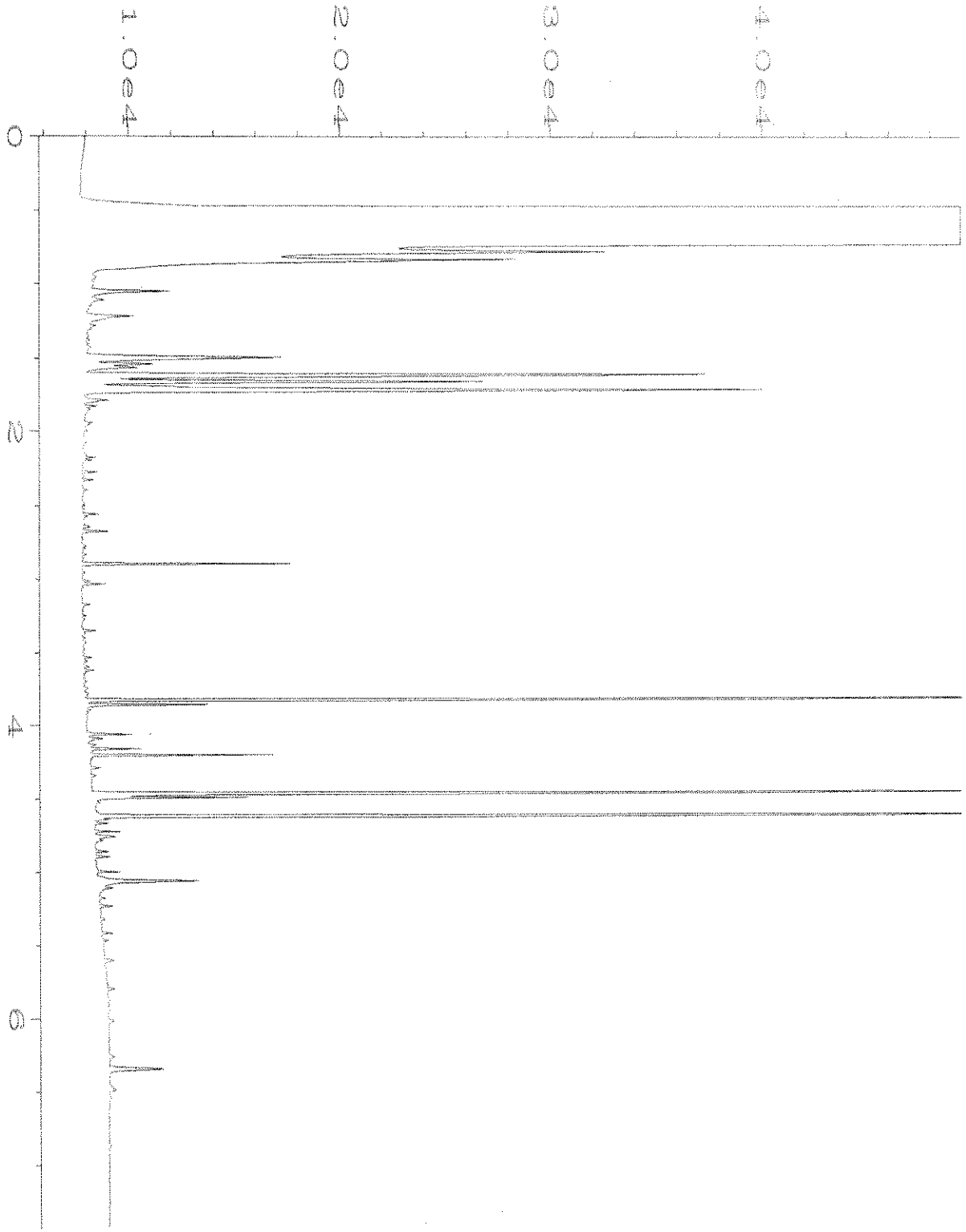
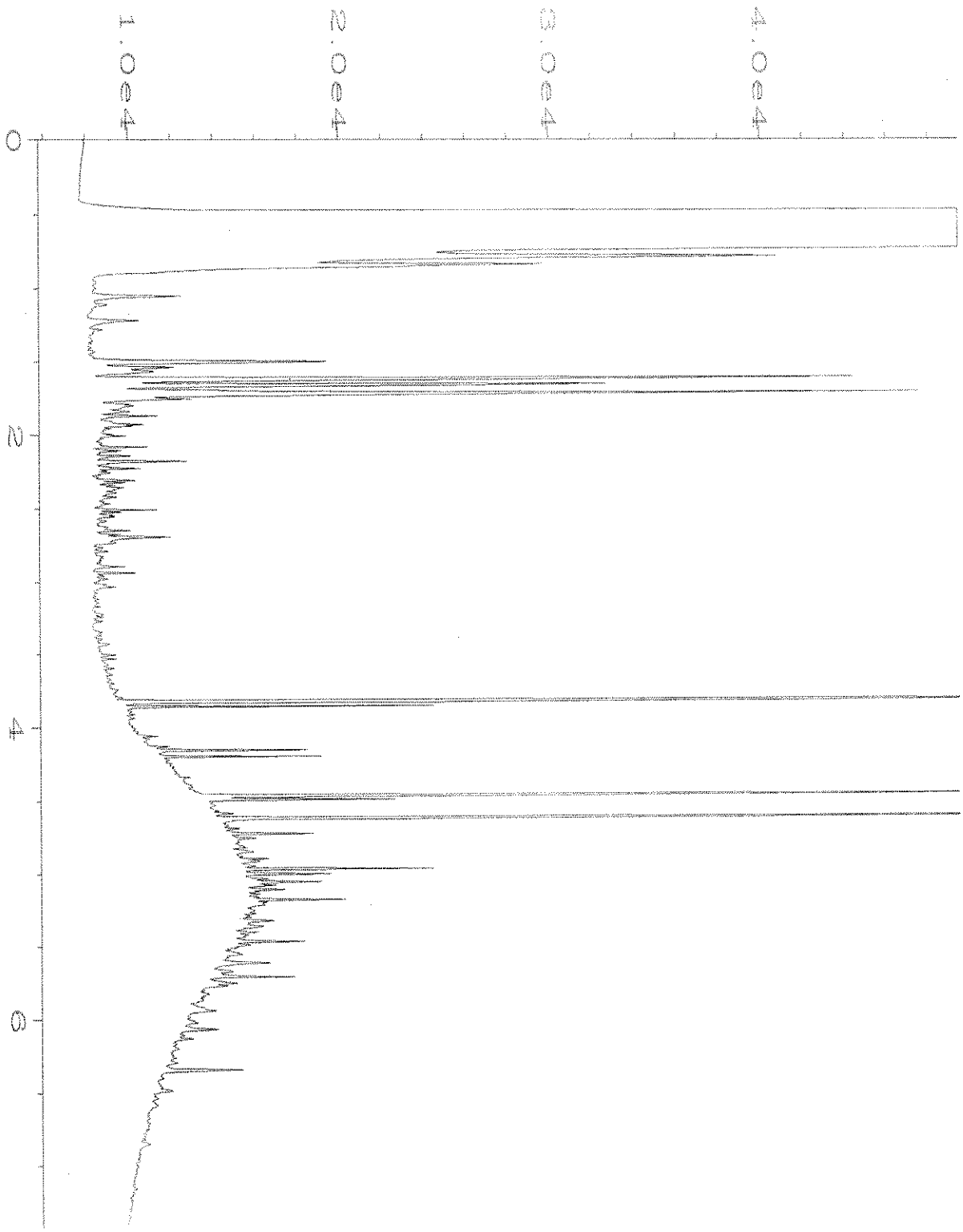
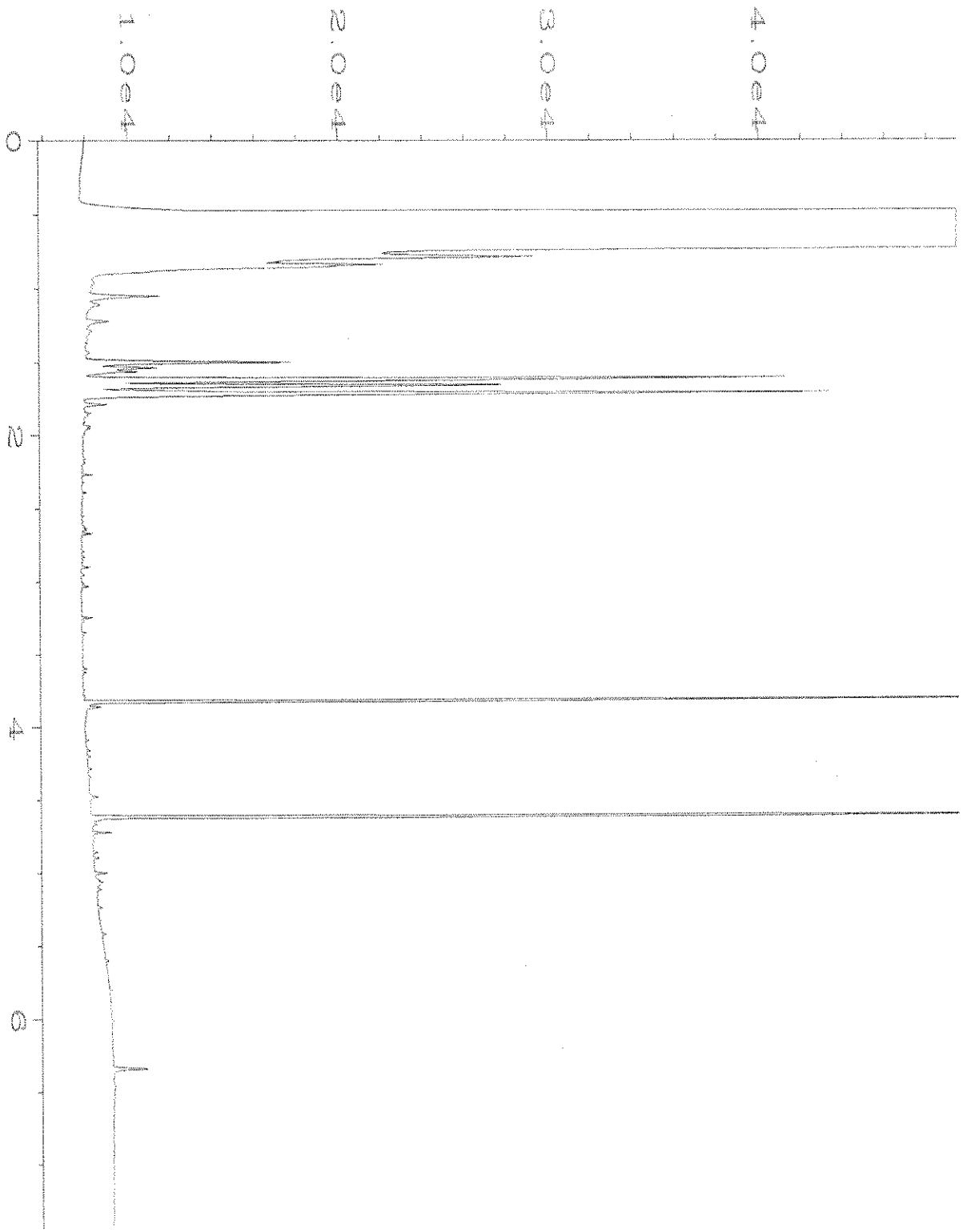
	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Clare Tochilin	SoundEarth	12/16/21	1400
Received by:		URIEL DUKES	FEDEX	12/16/21	1535
Relinquished by:		Liz Webber-Bryan	FB	12/16/21	1619
Received by:					



Data File Name	: C:\HPCHEM\1\DATA\12-17-21\028F0701.D		
Operator	: TL	Page Number	: 1
Instrument	: GC1	Vial Number	: 28
Sample Name	: 112344-02	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 17 Dec 21 06:42 PM	Instrument Method	: DX.MTH
Report Created on	: 20 Dec 21 08:49 AM	Analysis Method	: DEFAULT.MTH



Data File Name	: C:\HPCHEM\1\DATA\12-17-21\029F0701.D		
Operator	: TL	Page Number	: 1
Instrument	: GC1	Vial Number	: 29
Sample Name	: 112344-04	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 17 Dec 21 06:57 PM	Instrument Method	: DX.MTH
Report Created on	: 20 Dec 21 08:49 AM	Analysis Method	: DEFAULT.MTH



Data File Name	: C:\HPCHEM\1\DATA\12-17-21\025F0701.D		
Operator	: TL	Page Number	: 1
Instrument	: GC1	Vial Number	: 25
Sample Name	: 01-2898 mb	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 17 Dec 21 06:00 PM	Instrument Method	: DX.MTH
Report Created on	: 20 Dec 21 08:50 AM	Analysis Method	: DEFAULT.MTH

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Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 112344
Work Order Number: 2112310

December 27, 2021

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 12/17/2021 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

Date: *12/27/2021*

CLIENT: Friedman & Bruya
Project: 112344
Work Order: 2112310

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112310-001	MW28-20211216	12/16/2021 12:29 PM	12/17/2021 1:41 PM

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

Original

Case Narrative

WO#: **2112310**
Date: **12/27/2021**

CLIENT: Friedman & Bruya
Project: 112344

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: **2112310**
Date Reported: **12/27/2021**

Client: Friedman & Bruya
Project: 112344
Lab ID: 2112310-001
Client Sample ID: **MW28-20211216**

Collection Date: 12/16/2021 12:29:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R72107		Analyst: MS
Methane	0.143	0.00675		mg/L	1	12/20/2021 4:35:00 PM
Ethene	ND	0.0146		mg/L	1	12/20/2021 4:35:00 PM
Ethane	ND	0.0151		mg/L	1	12/20/2021 4:35:00 PM
Ion Chromatography by EPA Method 300.0				Batch ID: 34852		Analyst: SS
Nitrate (as N)	0.110	0.200	JDH	mg/L	2	12/23/2021 4:33:00 AM
Nitrate (as N)	ND	1.00	DQ	mg/L	10	12/18/2021 1:52:00 AM
Sulfate	8.39	1.20	D	mg/L	2	12/23/2021 4:33:00 AM
Sulfate	8.79	6.00	D	mg/L	10	12/18/2021 1:52:00 AM
Total Alkalinity by SM 2320B				Batch ID: R72105		Analyst: CH
Alkalinity, Total (As CaCO3)	223	2.50		mg/L	1	12/21/2021 8:28:27 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R72084		Analyst: SG
Ferrous Iron	1.17	0.100	H	mg/L	1	12/17/2021 5:00:00 PM

Work Order: 2112310
CLIENT: Friedman & Bruya
Project: 112344

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

Sample ID: **MB-R72105**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **12/21/2021**		RunNo: **72105**		
Client ID: **MBLKW**	Batch ID: **R72105**					Analysis Date: **12/21/2021**		SeqNo: **1471196**		
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-R72105**	SampType: **LCS**			Units: **mg/L**		Prep Date: **12/21/2021**		RunNo: **72105**		
Client ID: **LCSW**	Batch ID: **R72105**					Analysis Date: **12/21/2021**		SeqNo: **1471197**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	101	2.50	100.0	0	101	88.3	113				

Sample ID: **2112337-006BDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **12/21/2021**		RunNo: **72105**		
Client ID: **BATCH**	Batch ID: **R72105**					Analysis Date: **12/21/2021**		SeqNo: **1472884**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	483	2.50						488.4	1.21	20	

Work Order: 2112310
CLIENT: Friedman & Bruya
Project: 112344

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **MB-R72084**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **12/17/2021**	RunNo: **72084**
Client ID: **MBLKW**	Batch ID: **R72084**		Analysis Date: **12/17/2021**	SeqNo: **1470627**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.100									

Sample ID: **LCS-R72084**	SampType: **LCS**	Units: **mg/L**	Prep Date: **12/17/2021**	RunNo: **72084**
Client ID: **LCSW**	Batch ID: **R72084**		Analysis Date: **12/17/2021**	SeqNo: **1470628**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.352	0.100	0.4000	0	88.0	85	115				

Sample ID: **2112310-001BDUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **12/17/2021**	RunNo: **72084**
Client ID: **MW28-20211216**	Batch ID: **R72084**		Analysis Date: **12/17/2021**	SeqNo: **1470630**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.31	0.100						1.165	11.7	20	H

Sample ID: **2112310-001BMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **12/17/2021**	RunNo: **72084**
Client ID: **MW28-20211216**	Batch ID: **R72084**		Analysis Date: **12/17/2021**	SeqNo: **1470631**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.71	0.100	0.4000	1.165	136	70	130				SH

NOTES:
S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.

Sample ID: **2112310-001BMSD**	SampType: **MSD**	Units: **mg/L**	Prep Date: **12/17/2021**	RunNo: **72084**
Client ID: **MW28-20211216**	Batch ID: **R72084**		Analysis Date: **12/17/2021**	SeqNo: **1470632**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.56	0.100	0.4000	1.165	98.4	70	130	1.710	9.23	20	H

Fremont Analytical

Date: *12/27/2021*

Work Order: 2112310
CLIENT: Friedman & Bruya
Project: 112344

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **MB-34804** SampType: **MBLK** Units: **mg/L** Prep Date: **12/17/2021** RunNo: **72168**
Client ID: **MBLKW** Batch ID: **34804** Analysis Date: **12/17/2021** SeqNo: **1472980**

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-34804** SampType: **LCS** Units: **mg/L** Prep Date: **12/17/2021** RunNo: **72168**
Client ID: **LCSW** Batch ID: **34804** Analysis Date: **12/17/2021** SeqNo: **1472981**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.679	0.100	0.7500	0	90.5	90	110				
Sulfate	3.46	0.600	3.750	0	92.2	90	110				

Sample ID: **2112280-006BDUP** SampType: **DUP** Units: **mg/L** Prep Date: **12/17/2021** RunNo: **72168**
Client ID: **BATCH** Batch ID: **34804** Analysis Date: **12/17/2021** SeqNo: **1472993**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	1.84	1.00						1.800	2.20	20	DHQ
Sulfate	8.60	6.00						7.990	7.35	20	D

Sample ID: **2112280-006BMS** SampType: **MS** Units: **mg/L** Prep Date: **12/17/2021** RunNo: **72168**
Client ID: **BATCH** Batch ID: **34804** Analysis Date: **12/17/2021** SeqNo: **1472994**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	6.92	1.00	7.500	1.800	68.3	80	120				SDH
Sulfate	35.9	6.00	37.50	7.990	74.3	80	120				SD

NOTES:
S - Outlying spike recoveries were associated with this sample.

Work Order: 2112310
CLIENT: Friedman & Bruya
Project: 112344

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **2112311-001ADUP** SampType: **DUP** Units: **mg/L** Prep Date: **12/17/2021** RunNo: **72168**
Client ID: **BATCH** Batch ID: **34804** Analysis Date: **12/18/2021** SeqNo: **1473005**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	1.00						0	0	20	DQ
Sulfate	ND	6.00						0	0	20	D

NOTES:
Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: **2112311-001AMS** SampType: **MS** Units: **mg/L** Prep Date: **12/17/2021** RunNo: **72168**
Client ID: **BATCH** Batch ID: **34804** Analysis Date: **12/18/2021** SeqNo: **1473006**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	7.67	1.00	7.500	0	102	80	120				D
Sulfate	14.9	6.00	37.50	0	39.7	80	120				SD

NOTES:
S - Outlying spike recoveries were associated with this sample.

Sample ID: **2112311-001AMSD** SampType: **MSD** Units: **mg/L** Prep Date: **12/17/2021** RunNo: **72168**
Client ID: **BATCH** Batch ID: **34804** Analysis Date: **12/18/2021** SeqNo: **1473007**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	6.71	1.00	7.500	0	89.5	80	120	7.670	13.4	20	D
Sulfate	35.0	6.00	37.50	0	93.3	80	120	14.90	80.5	20	RD

NOTES:
R - High RPD due to sample inhomogeneity.

Sample ID: **2112280-006BDUP** SampType: **DUP** Units: **mg/L** Prep Date: **12/17/2021** RunNo: **72176**
Client ID: **BATCH** Batch ID: **34804** Analysis Date: **12/20/2021** SeqNo: **1473370**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	1.86	1.00						1.860	0	20	DQH
Sulfate	4.28	6.00						4.120	3.81	20	JDQ

NOTES:
Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Work Order: 2112310
CLIENT: Friedman & Bruya
Project: 112344

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **2112280-006BMS** SampType: **MS** Units: **mg/L** Prep Date: **12/17/2021** RunNo: **72176**
Client ID: **BATCH** Batch ID: **34804** Analysis Date: **12/20/2021** SeqNo: **1473372**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	7.83	1.00	7.500	1.860	79.6	80	120				SDH
Sulfate	52.5	6.00	37.50	4.120	129	80	120				DS

NOTES:
S - Spike recovery indicates a possible matrix effect.

Sample ID: **MB-34852** SampType: **MBLK** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **MBLKW** Batch ID: **34852** Analysis Date: **12/22/2021** SeqNo: **1473997**

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-34852** SampType: **LCS** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **LCSW** Batch ID: **34852** Analysis Date: **12/22/2021** SeqNo: **1473998**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.712	0.100	0.7500	0	94.9	90	110				
Sulfate	3.55	0.600	3.750	0	94.7	90	110				

Sample ID: **2112337-004BDUP** SampType: **DUP** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **BATCH** Batch ID: **34852** Analysis Date: **12/23/2021** SeqNo: **1474005**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.0570	0.100						0.05700	0	20	JH
Sulfate	0.283	0.600						0.2840	0.353	20	J

Work Order: 2112310
CLIENT: Friedman & Bruya
Project: 112344

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **2112337-004BMS** SampType: **MS** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **BATCH** Batch ID: **34852** Analysis Date: **12/23/2021** SeqNo: **1474006**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.750	0.100	0.7500	0.05700	92.4	80	120				H
Sulfate	3.84	0.600	3.750	0.2840	94.8	80	120				

Sample ID: **2112312-001ADUP** SampType: **DUP** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **BATCH** Batch ID: **34852** Analysis Date: **12/23/2021** SeqNo: **1474029**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100						0	0	20	H
Sulfate	0.358	0.600						0.3530	1.41	20	J

Sample ID: **2112312-001AMS** SampType: **MS** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **BATCH** Batch ID: **34852** Analysis Date: **12/23/2021** SeqNo: **1474030**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.677	0.100	0.7500	0	90.3	80	120				H
Sulfate	3.54	0.600	3.750	0.3530	84.9	80	120				

Sample ID: **2112312-001AMSD** SampType: **MSD** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **BATCH** Batch ID: **34852** Analysis Date: **12/23/2021** SeqNo: **1474031**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.685	0.100	0.7500	0	91.3	80	120	0.6770	1.17	20	H
Sulfate	3.58	0.600	3.750	0.3530	86.1	80	120	3.538	1.18	20	

Work Order: 2112310
CLIENT: Friedman & Bruya
Project: 112344

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: **LCS-R72107** SampType: **LCS** Units: **mg/L** Prep Date: **12/20/2021** RunNo: **72107**
Client ID: **LCSW** Batch ID: **R72107** Analysis Date: **12/20/2021** SeqNo: **1471285**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1,040	0.00675	1,000	0	104	66.7	141				
Ethene	1,090	0.0146	1,000	0	109	68.6	139				
Ethane	1,110	0.0151	1,000	0	111	69.3	136				

Sample ID: **MB-R72107** SampType: **MBLK** Units: **mg/L** Prep Date: **12/20/2021** RunNo: **72107**
Client ID: **MBLKW** Batch ID: **R72107** Analysis Date: **12/20/2021** SeqNo: **1471287**

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: **2112224-001FREP** SampType: **REP** Units: **mg/L** Prep Date: **12/20/2021** RunNo: **72107**
Client ID: **BATCH** Batch ID: **R72107** Analysis Date: **12/20/2021** SeqNo: **1471231**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675						0	0	30	
Ethene	ND	0.0146						0	0	30	
Ethane	ND	0.0151						0	0	30	

Sample ID: **LCS2-R72107** SampType: **LCS** Units: **mg/L** Prep Date: **12/20/2021** RunNo: **72107**
Client ID: **LCSW** Batch ID: **R72107** Analysis Date: **12/20/2021** SeqNo: **1471286**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	940	0.00675	1,000	0	94.0	66.7	141				
Ethene	974	0.0146	1,000	0	97.4	68.6	139				
Ethane	970	0.0151	1,000	0	97.0	69.3	136				

Work Order: 2112310
CLIENT: Friedman & Bruya
Project: 112344

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: **MBLK2-R72107**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **12/20/2021**	RunNo: **72107**
Client ID: **MBLKW**	Batch ID: **R72107**		Analysis Date: **12/20/2021**	SeqNo: **1471299**

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: **2112280-001AREP**	SampType: **REP**	Units: **mg/L**	Prep Date: **12/20/2021**	RunNo: **72107**
Client ID: **BATCH**	Batch ID: **R72107**		Analysis Date: **12/20/2021**	SeqNo: **1471253**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	8.64	0.00675						9.717	11.8	30	E
Ethene	ND	0.0146						0.006111	200	30	
Ethane	ND	0.0151						0.007545	200	30	

Sample Log-In Check List

Client Name:	**FB**	Work Order Number:	**2112310**
Logged by:	**Clare Griggs**	Date Received:	**12/17/2021 1:41:00 PM**

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample	2.3

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

211231a

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 Fax # (206) 283-5044

SUBCONTRACTOR Fremont

PROJECT NAME/NO. 112344

PO # B-537

REMARKS

TURNAROUND TIME
- ☑ Standard (1 Week)
- ☐ 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	Sample Type	# of Containers	ANALYSES REQUESTED: TOC	Nitrate	Nitrite	Sulfate	Sulfide	Alkalinity	Ferrous Iron	Methane Ethane Ethene RSK 175			
MW28-20211216		12/16/21	1229	H2O	5		X		X		X	X	X			

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Ann Webber-Bruya	Friedman & Bruya	12/17/21	0800
Received by: Alex Trejo	Alex Trejo	FAI	12/17/21	13:41
Relinquished by:				
Received by:				

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

FORMS\COC\Subcontract.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

January 4, 2022

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Fernandes:

Included are the results from the testing of material submitted on December 17, 2021 from the SOU_0731-004-08_ 20211217, F&BI 112373 project. There are 27 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: Clare Tochilin
SOU0104R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 17, 2020 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_ 20211217, F&BI 112373 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
112373 -01	MW25-20211217
112373 -02	MW99-20211217
112373 -03	IW91-20211217
112373 -04	MW19-20211217
112373 -05	MW23-20211217
112373 -06	MW17-20211217
112373 -07	MW18-20211217
112373 -08	MW20-20211217
112373 -09	MW22-20211217
112373 -10	MW24-20211217
112373 -11	MW21-20211217

Samples MW25-20211217, MW23-20211217, MW18-20211217, MW22-20211217, and MW24-20211217 were sent to Fremont Analytical for dissolved gasses, sulfate, nitrate, alkalinity, ferrous iron, and total organic carbon analyses. In addition, sample MW19-20211217 was sent to Fremont for dissolved gasses, sulfate, nitrate, alkalinity, and ferrous iron analyses. Sample MW21-20211217 was sent to Fremont for dissolved gasses and total organic carbon. The report is enclosed.

The NWTPH-Gx samples MW22-20211217 and MW21-20211217 were diluted due to matrix effect (foamy). The reporting limits were raised accordingly.

All quality control requirements were acceptable.

Date of Report: 01/04/22
Date Received: 12/17/21
Project: SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted: 12/27/21
Date Analyzed: 12/28/21

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
MW22-20211217 112373-09 1/10	<1,000	84
MW21-20211217 112373-11 1/10	<1,000	94
Method Blank 01-2927 MB	<100	77

Date of Report: 01/04/22
Date Received: 12/17/21
Project: SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted: 12/22/21
Date Analyzed: 12/22/21

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

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
MW22-20211217 112373-09	47,000 x	5,700 x	121
MW21-20211217 112373-11	48,000 x	5,800 x	ip
Method Blank 01-2912 MB2	<50	<250	108

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW25-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/21/21	Lab ID:	112373-01 x100
Date Analyzed:	12/22/21	Data File:	112373-01 x100.092
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	15,500
Manganese	8,390

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW19-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/21/21	Lab ID:	112373-04 x100
Date Analyzed:	12/22/21	Data File:	112373-04 x100.095
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	15,900
Manganese	12,600

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW23-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/21/21	Lab ID:	112373-05 x100
Date Analyzed:	12/22/21	Data File:	112373-05 x100.096
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	11,500
Manganese	11,700

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW18-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/21/21	Lab ID:	112373-07 x100
Date Analyzed:	12/22/21	Data File:	112373-07 x100.097
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	15,700
Manganese	9,610

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW22-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/21/21	Lab ID:	112373-09 x100
Date Analyzed:	12/22/21	Data File:	112373-09 x100.098
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	11,800
Manganese	10,600

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW24-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/21/21	Lab ID:	112373-10 x100
Date Analyzed:	12/22/21	Data File:	112373-10 x100.099
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	14,800
Manganese	26,500

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/21/21	Lab ID:	I1-854 mb
Date Analyzed:	12/21/21	Data File:	I1-854 mb.094
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW25-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	112373-01
Date Analyzed:	12/22/21	Data File:	122222.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	85	117
Toluene-d8	97	88	112
4-Bromofluorobenzene	103	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.6
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	13
Trichloroethene	0.52
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW99-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	112373-02
Date Analyzed:	12/22/21	Data File:	122223.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	85	117
Toluene-d8	98	88	112
4-Bromofluorobenzene	97	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.7
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	13
Trichloroethene	0.53
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW91-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	112373-03
Date Analyzed:	12/22/21	Data File:	122224.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	85	117
Toluene-d8	96	88	112
4-Bromofluorobenzene	97	90	111

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW19-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	112373-04
Date Analyzed:	12/22/21	Data File:	122225.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	85	117
Toluene-d8	96	88	112
4-Bromofluorobenzene	103	90	111

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW23-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	112373-05
Date Analyzed:	12/22/21	Data File:	122226.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	85	117
Toluene-d8	98	88	112
4-Bromofluorobenzene	101	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.7
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	15
Trichloroethene	<0.5
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW17-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	112373-06
Date Analyzed:	12/22/21	Data File:	122227.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	85	117
Toluene-d8	97	88	112
4-Bromofluorobenzene	97	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	1.5
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW18-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	112373-07
Date Analyzed:	12/22/21	Data File:	122228.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	113	85	117
Toluene-d8	93	88	112
4-Bromofluorobenzene	102	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.8
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW20-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	112373-08
Date Analyzed:	12/22/21	Data File:	122229.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	113	85	117
Toluene-d8	97	88	112
4-Bromofluorobenzene	99	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	5.2
Trichloroethene	0.94
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW22-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	112373-09
Date Analyzed:	12/23/21	Data File:	122316.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	96	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	52
Trichloroethene	0.51
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW24-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	112373-10
Date Analyzed:	12/22/21	Data File:	122230.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	85	117
Toluene-d8	97	88	112
4-Bromofluorobenzene	95	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.71
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	46
Trichloroethene	<0.5
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW21-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	112373-11
Date Analyzed:	12/23/21	Data File:	122317.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	85	117
Toluene-d8	98	88	112
4-Bromofluorobenzene	94	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.3
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	12
Trichloroethene	<0.5
Tetrachloroethene	<1

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_ 20211217, F&BI 112373
Date Extracted:	12/22/21	Lab ID:	01-2848 mb
Date Analyzed:	12/22/21	Data File:	122207.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	85	117
Toluene-d8	95	88	112
4-Bromofluorobenzene	102	90	111

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

Date of Report: 01/04/22
Date Received: 12/17/21
Project: SOU_0731-004-08_ 20211217, F&BI 112373

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

Laboratory Code: 112442-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	140	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	500	112	70-119

Date of Report: 01/04/22
Date Received: 12/17/21
Project: SOU_0731-004-08_ 20211217, F&BI 112373

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

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	108	104	63-142	4

Date of Report: 01/04/22
Date Received: 12/17/21
Project: SOU_0731-004-08_ 20211217, F&BI 112373

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

Laboratory Code: 112374-02 (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	14,000	287 b	549 b	70-130	63 b
Manganese	ug/L (ppb)	20	9,300	1210 b	1540 b	70-130	24 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	96	85-115
Manganese	ug/L (ppb)	20	95	85-115

Date of Report: 01/04/22
Date Received: 12/17/21
Project: SOU_0731-004-08_ 20211217, F&BI 112373

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

Laboratory Code: 112409-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	105	16-176
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	99	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	99	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	94	43-133
Tetrachloroethene	ug/L (ppb)	10	<1	97	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	102	104	70-130	2
trans-1,2-Dichloroethene	ug/L (ppb)	10	95	96	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	96	98	70-130	2
Trichloroethene	ug/L (ppb)	10	92	91	70-130	1
Tetrachloroethene	ug/L (ppb)	10	92	95	70-130	3

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. 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 lowest calibration standard. 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.

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.

112373

SAMPLE CHAIN OF CUSTODY

12-17-21

VW5/E03/1 Page # 1 of 1 AI-2

Send Report To Levi Fernandes, cc Clare Tochilin

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature)

PROJECT NAME/NO.	PO #
Troy Laundry Property	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

⊗ 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
MW25-20211217	MW25	—	01 A-F	12/17/21	0823	W	10				X	X	X	X	X	X	
MW99-20211217	MW99	—	02 A-C	12/17/21	0828		3				X						
MW91-20211217	MW91	—	03 A-C	12/17/21	0837		3				X						
MW19-20211217	MW19	—	04 A-I	12/17/21	0909		9				X	X	X	X	X		
MW23-20211217	MW23	—	05 A-J	12/17/21	1000		10				X	X	X	X	X	X	
MW17-20211217	MW17	—	06 A-C	12/17/21	1121		3				X						
MW18-20211217	MW18	—	07 A-J	12/17/21	1157		10				X	X	X	X	X	X	
MW20-20211217	MW20	—	08 A-C	12/17/21	1241		3				X						
MW22-20211217	MW22	—	09 A-N	12/17/21	1303		14	X		X	X	X	X	X	X	X	
MW24-20211217	MW24	—	10 A-J	12/17/21	1314		10				X	X	X	X	X	X	
MW21-20211217	MW21	—	11 A-K	12/17/21	1425		11	X		X	X	X				X	

EDT 12/17/21

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
Relinquished by:	Brennan Bashor	SoundEarth Strategies	12/17/21	1625
Received by:	Eric Young	F&B	12/17/21	1625
Relinquished by:				
Received by:				

Samples received at 4 °C

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

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 112373
Work Order Number: 2112337

December 31, 2021

Attention Michael Erdahl:

Fremont Analytical, Inc. received 7 sample(s) on 12/20/2021 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

Date: *12/31/2021*

CLIENT: Friedman & Bruya
Project: 112373
Work Order: 2112337

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112337-001	MW25-20211217	12/17/2021 8:23 AM	12/20/2021 2:18 PM
2112337-002	MW19-20211217	12/17/2021 9:09 AM	12/20/2021 2:18 PM
2112337-003	MW23-20211217	12/17/2021 10:00 AM	12/20/2021 2:18 PM
2112337-004	MW18-20211217	12/17/2021 11:57 AM	12/20/2021 2:18 PM
2112337-005	MW22-20211217	12/17/2021 1:03 PM	12/20/2021 2:18 PM
2112337-006	MW24-20211217	12/17/2021 1:14 PM	12/20/2021 2:18 PM
2112337-007	MW21-20211217	12/17/2021 2:25 PM	12/20/2021 2:18 PM

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

Original

Case Narrative

WO#: **2112337**
Date: **12/31/2021**

CLIENT: Friedman & Bruya
Project: 112373

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: **2112337**
Date Reported: **12/31/2021**

Client: Friedman & Bruya
Collection Date: 12/17/2021 8:23:00 AM
Project: 112373
Lab ID: 2112337-001
Matrix: Water
Client Sample ID: **MW25-20211217**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R72236		Analyst: MS
Methane	3.96	0.338	D	mg/L	50	12/28/2021 12:06:00 PM
Ethene	ND	0.0146		mg/L	1	12/28/2021 11:13:00 AM
Ethane	ND	0.0151		mg/L	1	12/28/2021 11:13:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 34852		Analyst: SS
Nitrate (as N)	ND	0.200	DH	mg/L	2	12/22/2021 11:32:00 PM
Sulfate	4.71	1.20	D	mg/L	2	12/22/2021 11:32:00 PM
NOTES: Diluted due to high levels of non-target analytes.						
Total Organic Carbon by SM 5310C				Batch ID: R72289		Analyst: SS
Total Organic Carbon	4.18	0.500		mg/L	1	12/30/2021 3:37:00 AM
Total Alkalinity by SM 2320B				Batch ID: R72105		Analyst: CH
Alkalinity, Total (As CaCO3)	431	2.50		mg/L	1	12/21/2021 8:28:27 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R72150		Analyst: SS
Ferrous Iron	18.8	2.50	DH	mg/L	25	12/21/2021 11:35:00 AM

Analytical Report

Work Order: **2112337**
Date Reported: **12/31/2021**

Client: Friedman & Bruya
Collection Date: 12/17/2021 9:09:00 AM
Project: 112373
Lab ID: 2112337-002
Matrix: Water
Client Sample ID: **MW19-20211217**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R72236		Analyst: MS
Methane	6.60	0.338	D	mg/L	50	12/28/2021 12:09:00 PM
Ethene	ND	0.0146		mg/L	1	12/28/2021 11:18:00 AM
Ethane	ND	0.0151		mg/L	1	12/28/2021 11:18:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 34852		Analyst: SS
Nitrate (as N)	ND	0.200	DH	mg/L	2	12/22/2021 11:55:00 PM
Sulfate	ND	1.20	D	mg/L	2	12/22/2021 11:55:00 PM
NOTES: Diluted due to high levels of non-target analytes.						
Total Alkalinity by SM 2320B				Batch ID: R72105		Analyst: CH
Alkalinity, Total (As CaCO3)	488	2.50		mg/L	1	12/21/2021 8:28:27 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R72150		Analyst: SS
Ferrous Iron	14.1	2.50	DH	mg/L	25	12/21/2021 11:35:00 AM

Analytical Report

Work Order: **2112337**
Date Reported: **12/31/2021**

Client: Friedman & Bruya
Collection Date: 12/17/2021 10:00:00 AM
Project: 112373
Lab ID: 2112337-003
Matrix: Water
Client Sample ID: **MW23-20211217**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R72236		Analyst: MS
Methane	4.99	0.338	D	mg/L	50	12/28/2021 11:51:00 AM
Ethene	ND	0.0146		mg/L	1	12/28/2021 11:21:00 AM
Ethane	ND	0.0151		mg/L	1	12/28/2021 11:21:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 34852		Analyst: SS
Nitrate (as N)	ND	0.200	DH	mg/L	2	12/23/2021 12:18:00 AM
Sulfate	ND	1.20	D	mg/L	2	12/23/2021 12:18:00 AM
NOTES: Diluted due to high levels of non-target analytes.						
Total Organic Carbon by SM 5310C				Batch ID: R72289		Analyst: SS
Total Organic Carbon	6.10	0.500		mg/L	1	12/30/2021 4:09:00 AM
Total Alkalinity by SM 2320B				Batch ID: R72105		Analyst: CH
Alkalinity, Total (As CaCO3)	374	2.50		mg/L	1	12/21/2021 8:28:27 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R72150		Analyst: SS
Ferrous Iron	15.2	2.50	DH	mg/L	25	12/21/2021 11:35:00 AM

Analytical Report

Work Order: **2112337**
Date Reported: **12/31/2021**

Client: Friedman & Bruya
Collection Date: 12/17/2021 11:57:00 AM
Project: 112373
Lab ID: 2112337-004
Matrix: Water
Client Sample ID: **MW18-20211217**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R72236		Analyst: MS
Methane	8.11	0.338	D	mg/L	50	12/28/2021 11:53:00 AM
Ethene	ND	0.0146		mg/L	1	12/28/2021 11:24:00 AM
Ethane	ND	0.0151		mg/L	1	12/28/2021 11:24:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 34852		Analyst: SS
Nitrate (as N)	ND	0.100	H	mg/L	1	12/23/2021 12:41:00 AM
Sulfate	ND	0.600		mg/L	1	12/23/2021 12:41:00 AM
Total Organic Carbon by SM 5310C				Batch ID: R72289		Analyst: SS
Total Organic Carbon	11.9	0.500		mg/L	1	12/30/2021 5:35:00 AM
Total Alkalinity by SM 2320B				Batch ID: R72105		Analyst: CH
Alkalinity, Total (As CaCO3)	503	2.50		mg/L	1	12/21/2021 8:28:27 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R72150		Analyst: SS
Ferrous Iron	11.0	2.50	DH	mg/L	25	12/21/2021 11:35:00 AM

Analytical Report

Work Order: **2112337**
Date Reported: **12/31/2021**

Client: Friedman & Bruya
Collection Date: 12/17/2021 1:03:00 PM
Project: 112373
Lab ID: 2112337-005
Matrix: Water
Client Sample ID: **MW22-20211217**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R72236		Analyst: MS
Methane	4.51	0.169	D	mg/L	25	12/28/2021 11:55:00 AM
Ethene	ND	0.0146		mg/L	1	12/28/2021 11:26:00 AM
Ethane	ND	0.0151		mg/L	1	12/28/2021 11:26:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 34852		Analyst: SS
Nitrate (as N)	ND	0.500	DH	mg/L	5	12/23/2021 2:37:00 AM
Sulfate	ND	3.00	D	mg/L	5	12/23/2021 2:37:00 AM
NOTES: Diluted due to high levels of non-target analytes.						
Total Organic Carbon by SM 5310C				Batch ID: R72289		Analyst: SS
Total Organic Carbon	133	5.00	D	mg/L	10	12/30/2021 1:20:00 PM
Total Alkalinity by SM 2320B				Batch ID: R72105		Analyst: CH
Alkalinity, Total (As CaCO3)	287	2.50		mg/L	1	12/21/2021 8:28:27 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R72150		Analyst: SS
Ferrous Iron	16.4	2.50	DH	mg/L	25	12/21/2021 11:35:00 AM

Analytical Report

Work Order: **2112337**
Date Reported: **12/31/2021**

Client: Friedman & Bruya
Collection Date: 12/17/2021 1:14:00 PM
Project: 112373
Lab ID: 2112337-006
Matrix: Water
Client Sample ID: **MW24-20211217**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R72236		Analyst: MS
Methane	7.66	0.338	D	mg/L	50	12/28/2021 11:57:00 AM
Ethene	ND	0.0146		mg/L	1	12/28/2021 11:28:00 AM
Ethane	ND	0.0151		mg/L	1	12/28/2021 11:28:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 34852		Analyst: SS
Nitrate (as N)	ND	0.200	DH	mg/L	2	12/23/2021 3:00:00 AM
Sulfate	ND	1.20	D	mg/L	2	12/23/2021 3:00:00 AM
NOTES: Diluted due to high levels of non-target analytes.						
Total Organic Carbon by SM 5310C				Batch ID: R72289		Analyst: SS
Total Organic Carbon	ND	0.500		mg/L	1	12/30/2021 6:30:00 AM
Total Alkalinity by SM 2320B				Batch ID: R72105		Analyst: CH
Alkalinity, Total (As CaCO3)	488	2.50		mg/L	1	12/21/2021 8:28:27 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R72150		Analyst: SS
Ferrous Iron	18.7	2.50	DH	mg/L	25	12/21/2021 11:35:00 AM

Analytical Report

Work Order: **2112337**

Date Reported: **12/31/2021**

Client: Friedman & Bruya

Collection Date: 12/17/2021 2:25:00 PM

Project: 112373

Lab ID: 2112337-007

Matrix: Water

Client Sample ID: MW21-20211217

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R72236		Analyst: MS
Methane	5.02	0.338	D	mg/L	50	12/28/2021 11:59:00 AM
Ethene	ND	0.0146		mg/L	1	12/28/2021 11:30:00 AM
Ethane	ND	0.0151		mg/L	1	12/28/2021 11:30:00 AM
Total Organic Carbon by SM 5310C				Batch ID: R72289		Analyst: SS
Total Organic Carbon	330	10.0	D	mg/L	20	12/30/2021 1:42:00 PM

Work Order: 2112337
CLIENT: Friedman & Bruya
Project: 112373

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

Sample ID: **MB-R72105**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **12/21/2021**	RunNo: **72105**
Client ID: **MBLKW**	Batch ID: **R72105**		Analysis Date: **12/21/2021**	SeqNo: **1471196**

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-R72105**	SampType: **LCS**	Units: **mg/L**	Prep Date: **12/21/2021**	RunNo: **72105**
Client ID: **LCSW**	Batch ID: **R72105**		Analysis Date: **12/21/2021**	SeqNo: **1471197**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	101	2.50	100.0	0	101	88.3	113				

Sample ID: **2112337-006BDUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **12/21/2021**	RunNo: **72105**
Client ID: **MW24-20211217**	Batch ID: **R72105**		Analysis Date: **12/21/2021**	SeqNo: **1472884**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	483	2.50						488.4	1.21	20	

Work Order: 2112337
CLIENT: Friedman & Bruya
Project: 112373

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **MB-R72150**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **12/21/2021**			RunNo: **72150**		
Client ID: **MBLKW**	Batch ID: **R72150**					Analysis Date: **12/21/2021**			SeqNo: **1472305**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.100									

Sample ID: **LCS-R72150**	SampType: **LCS**			Units: **mg/L**		Prep Date: **12/21/2021**			RunNo: **72150**		
Client ID: **LCSW**	Batch ID: **R72150**					Analysis Date: **12/21/2021**			SeqNo: **1472306**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.385	0.100	0.4000	0	96.2	85	115				

Sample ID: **2112338-003CDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **12/21/2021**			RunNo: **72150**		
Client ID: **BATCH**	Batch ID: **R72150**					Analysis Date: **12/21/2021**			SeqNo: **1472318**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	22.2	2.50						22.41	0.734	20	DH

Sample ID: **2112338-003CMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **12/21/2021**			RunNo: **72150**		
Client ID: **BATCH**	Batch ID: **R72150**					Analysis Date: **12/21/2021**			SeqNo: **1472319**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	35.1	2.50	10.00	22.41	127	70	130				DH

Sample ID: **2112338-003CMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **12/21/2021**			RunNo: **72150**		
Client ID: **BATCH**	Batch ID: **R72150**					Analysis Date: **12/21/2021**			SeqNo: **1472320**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	34.5	2.50	10.00	22.41	121	70	130	35.11	1.89	20	DH

Work Order: 2112337
CLIENT: Friedman & Bruya
Project: 112373

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **MB-34852**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **12/22/2021**	RunNo: **72201**
Client ID: **MBLKW**	Batch ID: **34852**		Analysis Date: **12/22/2021**	SeqNo: **1473997**

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-34852**	SampType: **LCS**	Units: **mg/L**	Prep Date: **12/22/2021**	RunNo: **72201**
Client ID: **LCSW**	Batch ID: **34852**		Analysis Date: **12/22/2021**	SeqNo: **1473998**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.712	0.100	0.7500	0	94.9	90	110				
Sulfate	3.55	0.600	3.750	0	94.7	90	110				

Sample ID: **2112337-004BDUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **12/22/2021**	RunNo: **72201**
Client ID: **MW18-20211217**	Batch ID: **34852**		Analysis Date: **12/23/2021**	SeqNo: **1474005**

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: **2112337-004BMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **12/22/2021**	RunNo: **72201**
Client ID: **MW18-20211217**	Batch ID: **34852**		Analysis Date: **12/23/2021**	SeqNo: **1474006**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.750	0.100	0.7500	0.05700	92.4	80	120				H
Sulfate	3.84	0.600	3.750	0.2840	94.8	80	120				

Work Order: 2112337
CLIENT: Friedman & Bruya
Project: 112373

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **2112312-001ADUP** SampType: **DUP** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **BATCH** Batch ID: **34852** Analysis Date: **12/23/2021** SeqNo: **1474029**

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: **2112312-001AMS** SampType: **MS** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **BATCH** Batch ID: **34852** Analysis Date: **12/23/2021** SeqNo: **1474030**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.677	0.100	0.7500	0	90.3	80	120				H
Sulfate	3.54	0.600	3.750	0.3530	84.9	80	120				

Sample ID: **2112312-001AMSD** SampType: **MSD** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **BATCH** Batch ID: **34852** Analysis Date: **12/23/2021** SeqNo: **1474031**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.685	0.100	0.7500	0	91.3	80	120	0.6770	1.17	20	H
Sulfate	3.58	0.600	3.750	0.3530	86.1	80	120	3.538	1.18	20	

Work Order: 2112337
CLIENT: Friedman & Bruya
Project: 112373

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **MB-R72289**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **12/29/2021**			RunNo: **72289**		
Client ID: **MBLKW**	Batch ID: **R72289**					Analysis Date: **12/29/2021**			SeqNo: **1476043**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.500									

Sample ID: **LCS-R72289**	SampType: **LCS**			Units: **mg/L**		Prep Date: **12/29/2021**			RunNo: **72289**		
Client ID: **LCSW**	Batch ID: **R72289**					Analysis Date: **12/29/2021**			SeqNo: **1476044**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.16	0.500	5.000	0	103	93.1	106				

Sample ID: **2112279-001DDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **12/29/2021**			RunNo: **72289**		
Client ID: **BATCH**	Batch ID: **R72289**					Analysis Date: **12/29/2021**			SeqNo: **1476046**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	0.886	0.500						0.9000	1.57	20	

Sample ID: **2112279-001DMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **12/29/2021**			RunNo: **72289**		
Client ID: **BATCH**	Batch ID: **R72289**					Analysis Date: **12/29/2021**			SeqNo: **1476047**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.94	0.500	5.000	0.9000	101	69.1	124				

Sample ID: **2112279-001DMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **12/29/2021**			RunNo: **72289**		
Client ID: **BATCH**	Batch ID: **R72289**					Analysis Date: **12/29/2021**			SeqNo: **1476048**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.80	0.500	5.000	0.9000	98.1	69.1	124	5.937	2.28	30	

Work Order: 2112337
CLIENT: Friedman & Bruya
Project: 112373

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **2112337-003DDUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **12/30/2021**	RunNo: **72289**
Client ID: **MW23-20211217**	Batch ID: **R72289**		Analysis Date: **12/30/2021**	SeqNo: **1476068**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.98	0.500						6.096	1.85	20	

Sample ID: **2112337-003DMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **12/30/2021**	RunNo: **72289**
Client ID: **MW23-20211217**	Batch ID: **R72289**		Analysis Date: **12/30/2021**	SeqNo: **1476069**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	10.7	0.500	5.000	6.096	91.2	69.1	124				

Work Order: 2112337
CLIENT: Friedman & Bruya
Project: 112373

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: **LCS-R72236** SampType: **LCS** Units: **mg/L** Prep Date: **12/28/2021** RunNo: **72236**
Client ID: **LCSW** Batch ID: **R72236** Analysis Date: **12/28/2021** SeqNo: **1474674**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	929	0.00675	1,000	0	92.9	66.7	141				
Ethene	976	0.0146	1,000	0	97.6	68.6	139				
Ethane	968	0.0151	1,000	0	96.8	69.3	136				

Sample ID: **MB-R72236** SampType: **MBLK** Units: **mg/L** Prep Date: **12/28/2021** RunNo: **72236**
Client ID: **MBLKW** Batch ID: **R72236** Analysis Date: **12/28/2021** SeqNo: **1474677**

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: **2112337-001AREP** SampType: **REP** Units: **mg/L** Prep Date: **12/28/2021** RunNo: **72236**
Client ID: **MW25-20211217** Batch ID: **R72236** Analysis Date: **12/28/2021** SeqNo: **1474646**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	5.75	0.00675						6.183	7.23	30	E
Ethene	ND	0.0146						0		30	
Ethane	ND	0.0151						0		30	

Sample Log-In Check List

Client Name:	**FB**	Work Order Number:	**2112337**
Logged by:	**Gabrielle Coeuille**	Date Received:	**12/20/2021 2:18:00 PM**

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

Person Notified:	Michael Erdahl	Date:	12/20/2021
By Whom:	Gabrielle Coeuille	Via:	☑ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	Ok to proceed out of hold?		
Client Instructions:	Proceed.		

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample 1	2.0

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2112337

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

PROJECT NAME/NO. 112373

PO # B-541

REMARKS

Please Email Results EIM

TURNAROUND TIME

☒ 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	Dissolved Gases RSK	Sulfate + Nitrate	Alkalinity	Fe^{2+}	TOC						Notes
MW25-20211217		12/17/21	0823			X	X	X	X	X						
MW19-20211217			0909			X	X	X	X							
MW23-20211217			1000			X	X	X	X	X						
MW18-20211217			1157			X	X	X	X	X						
MW22-20211217			1303			X	X	X	X	X						
MW24-20211217			1314			X	X	X	X	X						
MW21-20211217			1425			X				X						

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
Relinquished by:		Michael Erdahl	Friedman & Bruya	Fri Rec 12/20/21	0802
Received by:	Justine Mantz	Justine Mantz	FAI	12/20/21	14:18
Relinquished by:					
Received by:					

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

January 10, 2022

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Fernandes:

Included is the amended report from the testing of material submitted on December 17, 2021 from the SOU_0731-004-08_ 20211217, F&BI 112374 project. The sample IDs have been amended to reflect the chain of custody.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Clare Tochilin
SOU0104R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
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fbi@isomedia.com
www.friedmanandbruya.com

January 4, 2022

Levi Fernandes, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Fernandes:

Included are the results from the testing of material submitted on December 17, 2021 from the SOU_0731-004-08_ 20211217, F&BI 112374 project. There are 13 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: Clare Tochilin
SOU0104R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 17, 2021 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_ 20211217, F&BI 112374 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
112374 -01	IW06-20211217
112374 -02	IW04-20211217
112374 -03	IW61-20211217
112374 -04	IW50-20211217

Samples IW61-20211217 and IW50-20211217 were sent to Fremont Analytical for dissolved gasses, sulfate, nitrate, alkalinity, ferrous iron, and total organic carbon analyses. In addition, sample IW04-20211217 was sent to Fremont for sulfate, nitrate, alkalinity, and ferrous iron analyses. The report is enclosed.

All quality control requirements were acceptable.

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW04-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217
Date Extracted:	12/21/21	Lab ID:	112374-02 x100
Date Analyzed:	12/22/21	Data File:	112374-02 x100.089
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	15,800
Manganese	11,500

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW61-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217
Date Extracted:	12/21/21	Lab ID:	112374-03 x100
Date Analyzed:	12/22/21	Data File:	112374-03 x100.090
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	20,600
Manganese	12,300

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW50-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217
Date Extracted:	12/21/21	Lab ID:	112374-04 x100
Date Analyzed:	12/22/21	Data File:	112374-04 x100.091
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	17,000
Manganese	15,500

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_ 20211217
Date Extracted:	12/21/21	Lab ID:	I1-854 mb
Date Analyzed:	12/21/21	Data File:	I1-854 mb.094
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW06-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217
Date Extracted:	12/20/21	Lab ID:	112374-01
Date Analyzed:	12/20/21	Data File:	122033.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	85	117
Toluene-d8	96	88	112
4-Bromofluorobenzene	98	90	111

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW04-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217
Date Extracted:	12/20/21	Lab ID:	112374-02
Date Analyzed:	12/20/21	Data File:	122034.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	85	117
Toluene-d8	98	88	112
4-Bromofluorobenzene	101	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.34
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	1.1
Trichloroethene	<0.5
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW61-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217
Date Extracted:	12/20/21	Lab ID:	112374-03
Date Analyzed:	12/22/21	Data File:	122215.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	85	117
Toluene-d8	106	88	112
4-Bromofluorobenzene	176 vo	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.8
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	41
Trichloroethene	<0.5
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW50-20211217	Client:	SoundEarth Strategies
Date Received:	12/17/21	Project:	SOU_0731-004-08_ 20211217
Date Extracted:	12/20/21	Lab ID:	112374-04
Date Analyzed:	12/20/21	Data File:	122035.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	85	117
Toluene-d8	97	88	112
4-Bromofluorobenzene	100	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.80
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	2.9
Trichloroethene	<0.5
Tetrachloroethene	<1

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_ 20211217
Date Extracted:	12/20/21	Lab ID:	01-2842 mb
Date Analyzed:	12/20/21	Data File:	122031.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	85	117
Toluene-d8	98	88	112
4-Bromofluorobenzene	100	90	111

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

Date of Report: 01/04/22
Date Received: 12/17/21
Project: SOU_0731-004-08_ 20211217, F&BI 112374

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

Laboratory Code: 112374-02 (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	14,000	287 b	549 b	70-130	63 b
Manganese	ug/L (ppb)	20	9,300	1210 b	1540 b	70-130	24 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	96	85-115
Manganese	ug/L (ppb)	20	95	85-115

Date of Report: 01/04/22
Date Received: 12/17/21
Project: SOU_0731-004-08_ 20211217, F&BI 112374

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

Laboratory Code: 112363-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	111	16-176
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	98	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	102	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	92	43-133
Tetrachloroethene	ug/L (ppb)	10	<1	97	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	112	103	70-130	8
trans-1,2-Dichloroethene	ug/L (ppb)	10	99	91	70-130	8
cis-1,2-Dichloroethene	ug/L (ppb)	10	100	94	70-130	6
Trichloroethene	ug/L (ppb)	10	93	86	70-130	8
Tetrachloroethene	ug/L (ppb)	10	96	93	70-130	3

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. 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 lowest calibration standard. 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.

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.

112334

12-17-21

AI2/VW3

Page # 1 of 1

Send Report To Levi Fernandes, cc Clare Tochilin

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature)

PROJECT NAME/NO.	PO #
Troy Laundry Property	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

⊗ 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
IW06-20211217	IW06	—	01 A-C	12/17/21	1008	H20	3				X						
IW04-20211217	IW04	—	02 A-G	12/17/21	1037		7				X		X	X	X	X	
IW61-20211217	IW61	—	03 A-J	12/17/21	1116		10				X	X	X	X	X	X	
IW50-20211217	IW50	—	04 A-J	12/17/21	1402		10				X	X	X	X	X	X	
					COT	12/17/21											

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
Relinquished by:	Brennan Bosker	SoundEarth Strategies	12/19/21	1425
Received by:	Eric Crane	Ears	12/17/21	1425
Relinquished by:				
Received by:		Samples received at 4 °C		

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

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 112374
Work Order Number: 2112338

December 31, 2021

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 12/20/2021 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

Date: *12/31/2021*

CLIENT: Friedman & Bruya
Project: 112374
Work Order: 2112338

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112338-001	IW04-20211217	12/17/2021 10:37 AM	12/20/2021 2:18 PM
2112338-002	IW61-20211217	12/17/2021 11:16 AM	12/20/2021 2:18 PM
2112338-003	IW50-20211217	12/17/2021 2:02 PM	12/20/2021 2:18 PM

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

Case Narrative

WO#: **2112338**
Date: **12/31/2021**

CLIENT: Friedman & Bruya
Project: 112374

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: **2112338**
Date Reported: **12/31/2021**

Client: Friedman & Bruya
Project: 112374
Lab ID: 2112338-001
Client Sample ID: **IW04-20211217**

Collection Date: 12/17/2021 10:37:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ion Chromatography by EPA Method 300.0				Batch ID: 34852		Analyst: SS
Nitrate (as N)	ND	0.100	H	mg/L	1	12/23/2021 3:23:00 AM
Sulfate	ND	0.600		mg/L	1	12/23/2021 3:23:00 AM
Total Organic Carbon by SM 5310C				Batch ID: R72306		Analyst: SS
Total Organic Carbon	101	2.00	D	mg/L	4	12/31/2021 10:29:00 AM
Total Alkalinity by SM 2320B				Batch ID: R72190		Analyst: CH
Alkalinity, Total (As CaCO3)	458	2.50		mg/L	1	12/27/2021 9:30:43 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R72150		Analyst: SS
Ferrous Iron	23.1	2.50	DH	mg/L	25	12/21/2021 11:35:00 AM

Analytical Report

Work Order: **2112338**
Date Reported: **12/31/2021**

Client: Friedman & Bruya
Collection Date: 12/17/2021 11:16:00 AM
Project: 112374
Lab ID: 2112338-002
Matrix: Water
Client Sample ID: IW61-20211217

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R72236		Analyst: MS
Methane	5.04	0.338	D	mg/L	50	12/28/2021 12:15:00 PM
Ethene	ND	0.0146		mg/L	1	12/28/2021 11:33:00 AM
Ethane	ND	0.0151		mg/L	1	12/28/2021 11:33:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 34852		Analyst: SS
Nitrate (as N)	0.248	0.200	DH	mg/L	2	12/23/2021 3:47:00 AM
Sulfate	ND	1.20	D	mg/L	2	12/23/2021 3:47:00 AM
NOTES: Diluted due to high levels of non-target analytes.						
Total Organic Carbon by SM 5310C				Batch ID: R72306		Analyst: SS
Total Organic Carbon	72.6	2.00	D	mg/L	4	12/31/2021 11:00:00 AM
Total Alkalinity by SM 2320B				Batch ID: R72190		Analyst: CH
Alkalinity, Total (As CaCO3)	460	2.50		mg/L	1	12/27/2021 9:30:43 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R72150		Analyst: SS
Ferrous Iron	30.4	2.50	DH	mg/L	25	12/21/2021 11:35:00 AM

Analytical Report

Work Order: **2112338**
Date Reported: **12/31/2021**

Client: Friedman & Bruya
Collection Date: 12/17/2021 2:02:00 PM
Project: 112374
Lab ID: 2112338-003
Matrix: Water
Client Sample ID: IW50-20211217

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R72236		Analyst: MS
Methane	6.89	0.338	D	mg/L	50	12/28/2021 12:04:00 PM
Ethene	ND	0.0146		mg/L	1	12/28/2021 11:35:00 AM
Ethane	ND	0.0151		mg/L	1	12/28/2021 11:35:00 AM
Ion Chromatography by EPA Method 300.0				Batch ID: 34852		Analyst: SS
Nitrate (as N)	ND	0.200	DH	mg/L	2	12/23/2021 4:10:00 AM
Sulfate	ND	1.20	D	mg/L	2	12/23/2021 4:10:00 AM
NOTES: Diluted due to high levels of non-target analytes.						
Total Organic Carbon by SM 5310C				Batch ID: R72306		Analyst: SS
Total Organic Carbon	38.1	0.500		mg/L	1	12/30/2021 9:38:00 PM
Total Alkalinity by SM 2320B				Batch ID: R72190		Analyst: CH
Alkalinity, Total (As CaCO3)	468	2.50		mg/L	1	12/27/2021 9:30:43 AM
Ferrous Iron by SM3500-Fe B				Batch ID: R72150		Analyst: SS
Ferrous Iron	22.4	2.50	DH	mg/L	25	12/21/2021 11:35:00 AM

Work Order: 2112338
CLIENT: Friedman & Bruya
Project: 112374

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

Sample ID: **MB-R72190**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **12/27/2021**		RunNo: **72190**		
Client ID: **MBLKW**	Batch ID: **R72190**					Analysis Date: **12/27/2021**		SeqNo: **1473852**		
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-R72190**	SampType: **LCS**			Units: **mg/L**		Prep Date: **12/27/2021**		RunNo: **72190**		
Client ID: **LCSW**	Batch ID: **R72190**					Analysis Date: **12/27/2021**		SeqNo: **1473853**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	96.3	2.50	100.0	0	96.3	88.3	113				

Sample ID: **2112338-001ADUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **12/27/2021**		RunNo: **72190**		
Client ID: **IW04-20211217**	Batch ID: **R72190**					Analysis Date: **12/27/2021**		SeqNo: **1473855**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	456	2.50						458.4	0.447	20	

Work Order: 2112338
CLIENT: Friedman & Bruya
Project: 112374

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: **MB-R72150**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **12/21/2021**			RunNo: **72150**		
Client ID: **MBLKW**	Batch ID: **R72150**					Analysis Date: **12/21/2021**			SeqNo: **1472305**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.100									

Sample ID: **LCS-R72150**	SampType: **LCS**			Units: **mg/L**		Prep Date: **12/21/2021**			RunNo: **72150**		
Client ID: **LCSW**	Batch ID: **R72150**					Analysis Date: **12/21/2021**			SeqNo: **1472306**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.385	0.100	0.4000	0	96.2	85	115				

Sample ID: **2112338-003CDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **12/21/2021**			RunNo: **72150**		
Client ID: **IW50-20211217**	Batch ID: **R72150**					Analysis Date: **12/21/2021**			SeqNo: **1472318**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	22.2	2.50						22.41	0.734	20	DH

Sample ID: **2112338-003CMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **12/21/2021**			RunNo: **72150**		
Client ID: **IW50-20211217**	Batch ID: **R72150**					Analysis Date: **12/21/2021**			SeqNo: **1472319**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	35.1	2.50	10.00	22.41	127	70	130				DH

Sample ID: **2112338-003CMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **12/21/2021**			RunNo: **72150**		
Client ID: **IW50-20211217**	Batch ID: **R72150**					Analysis Date: **12/21/2021**			SeqNo: **1472320**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	34.5	2.50	10.00	22.41	121	70	130	35.11	1.89	20	DH

Work Order: 2112338
CLIENT: Friedman & Bruya
Project: 112374

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **MB-34852**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **12/22/2021**	RunNo: **72201**
Client ID: **MBLKW**	Batch ID: **34852**		Analysis Date: **12/22/2021**	SeqNo: **1473997**

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-34852**	SampType: **LCS**	Units: **mg/L**	Prep Date: **12/22/2021**	RunNo: **72201**
Client ID: **LCSW**	Batch ID: **34852**		Analysis Date: **12/22/2021**	SeqNo: **1473998**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.712	0.100	0.7500	0	94.9	90	110				
Sulfate	3.55	0.600	3.750	0	94.7	90	110				

Sample ID: **2112337-004BDUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **12/22/2021**	RunNo: **72201**
Client ID: **BATCH**	Batch ID: **34852**		Analysis Date: **12/23/2021**	SeqNo: **1474005**

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: **2112337-004BMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **12/22/2021**	RunNo: **72201**
Client ID: **BATCH**	Batch ID: **34852**		Analysis Date: **12/23/2021**	SeqNo: **1474006**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.750	0.100	0.7500	0.05700	92.4	80	120				H
Sulfate	3.84	0.600	3.750	0.2840	94.8	80	120				

Work Order: 2112338
CLIENT: Friedman & Bruya
Project: 112374

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

Sample ID: **2112312-001ADUP** SampType: **DUP** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **BATCH** Batch ID: **34852** Analysis Date: **12/23/2021** SeqNo: **1474029**

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: **2112312-001AMS** SampType: **MS** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **BATCH** Batch ID: **34852** Analysis Date: **12/23/2021** SeqNo: **1474030**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.677	0.100	0.7500	0	90.3	80	120				H
Sulfate	3.54	0.600	3.750	0.3530	84.9	80	120				

Sample ID: **2112312-001AMSD** SampType: **MSD** Units: **mg/L** Prep Date: **12/22/2021** RunNo: **72201**
Client ID: **BATCH** Batch ID: **34852** Analysis Date: **12/23/2021** SeqNo: **1474031**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.685	0.100	0.7500	0	91.3	80	120	0.6770	1.17	20	H
Sulfate	3.58	0.600	3.750	0.3530	86.1	80	120	3.538	1.18	20	

Work Order: 2112338
CLIENT: Friedman & Bruya
Project: 112374

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **MB-R72306**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **12/30/2021**		RunNo: **72306**		
Client ID: **MBLKW**	Batch ID: **R72306**					Analysis Date: **12/30/2021**		SeqNo: **1476572**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.500									

Sample ID: **LCS-R72306**	SampType: **LCS**			Units: **mg/L**		Prep Date: **12/30/2021**		RunNo: **72306**		
Client ID: **LCSW**	Batch ID: **R72306**					Analysis Date: **12/30/2021**		SeqNo: **1476576**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.18	0.500	5.000	0	104	93.1	106				

Sample ID: **2112338-001BDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **12/30/2021**		RunNo: **72306**		
Client ID: **IW04-20211217**	Batch ID: **R72306**					Analysis Date: **12/30/2021**		SeqNo: **1476579**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	103	0.500						101.5	1.61	20	E

Sample ID: **2112338-001BMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **12/30/2021**		RunNo: **72306**		
Client ID: **IW04-20211217**	Batch ID: **R72306**					Analysis Date: **12/30/2021**		SeqNo: **1476582**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	106	0.500	5.000	101.5	96.5	69.1	124				E

Sample ID: **2112338-001BMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **12/30/2021**		RunNo: **72306**		
Client ID: **IW04-20211217**	Batch ID: **R72306**					Analysis Date: **12/30/2021**		SeqNo: **1476583**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	106	0.500	5.000	101.5	92.1	69.1	124	106.3	0.204	30	E

Work Order: 2112338
CLIENT: Friedman & Bruya
Project: 112374

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **2112339-002ADUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **12/30/2021**		RunNo: **72306**			
Client ID: **BATCH**	Batch ID: **R72306**					Analysis Date: **12/30/2021**		SeqNo: **1476588**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	15.3	0.500						15.44	0.872	20	

Sample ID: **2112339-002AMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **12/30/2021**		RunNo: **72306**			
Client ID: **BATCH**	Batch ID: **R72306**					Analysis Date: **12/30/2021**		SeqNo: **1476589**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	19.8	0.500	5.000	15.44	87.1	69.1	124				

Work Order: 2112338
CLIENT: Friedman & Bruya
Project: 112374

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: **LCS-R72236** SampType: **LCS** Units: **mg/L** Prep Date: **12/28/2021** RunNo: **72236**
Client ID: **LCSW** Batch ID: **R72236** Analysis Date: **12/28/2021** SeqNo: **1474674**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	929	0.00675	1,000	0	92.9	66.7	141				
Ethene	976	0.0146	1,000	0	97.6	68.6	139				
Ethane	968	0.0151	1,000	0	96.8	69.3	136				

Sample ID: **MB-R72236** SampType: **MBLK** Units: **mg/L** Prep Date: **12/28/2021** RunNo: **72236**
Client ID: **MBLKW** Batch ID: **R72236** Analysis Date: **12/28/2021** SeqNo: **1474677**

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: **2112337-001AREP** SampType: **REP** Units: **mg/L** Prep Date: **12/28/2021** RunNo: **72236**
Client ID: **BATCH** Batch ID: **R72236** Analysis Date: **12/28/2021** SeqNo: **1474646**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	5.75	0.00675						6.183	7.23	30	E
Ethene	ND	0.0146						0		30	
Ethane	ND	0.0151						0		30	

Sample Log-In Check List

Client Name:	**FB**	Work Order Number:	**2112338**
Logged by:	**Gabrielle Coeuille**	Date Received:	**12/20/2021 2:18:00 PM**

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

Person Notified:	Michael Erdahl	Date:	12/20/2021
By Whom:	Gabrielle Coeuille	Via:	☑ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	Ok to proceed out of hold?		
Client Instructions:	Proceed.		

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample 1	2.0

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2112338

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

PROJECT NAME/NO.	PO #
112374	BS37

REMARKS

Please Email Results EIM

TURNAROUND TIME

☒ 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	Dissolved Gases RSK	Sulfate +Nitrate	Alkalinity	TOC	Fe 2+						Notes
IW04-20211217		12/17/21	1037	H_2O			X	X	X	X						
IW01-20211217		"	1116	"		X	X	X	X	X						
IW50-20211217		"	1402	"		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	COMPANY	DATE	TIME
Relinquished by:			Friedman & Bruya	12/20/21	0757
Received by:	Justine Martz	Justine Martz	FAI	12/20/21	14:18
Relinquished by:					
Received by:					

SiREM
Leading Science · Lasting Solutions

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

Analytical Results

Client: Sound Earth Inc
Client Project Number: 0731-004-08
Date Samples Received: December 21, 2021
Date Samples Analyzed: January 10, 2022

SiREM File Reference: S-8782

Client Sample ID	SiREM Reference ID	Client Sample Date	Sample Dilution Factor	Lactate	Acetate	Propionate	Formate	Butyrate	Pyruvate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW25-20211217	21-8626	17-Dec-21	50	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69
MW23-20211217	21-8627	17-Dec-21	50	<0.39	<0.54	<0.31	<0.22	<0.47	<0.69
IW04-20211217	21-8628	17-Dec-21	50	<0.39	2.4	1.2	<0.22	<0.47	<0.69
IW61-20211217	21-8629	17-Dec-21	50	<0.39	4.5	<0.31	<0.22	<0.47	<0.69
MW18-20211217	21-8630	17-Dec-21	50	<0.39	<0.54	<0.31	<0.22	<0.47	<0.69
MW22-20211217	21-8631	17-Dec-21	50	<0.39	169	16	<0.22	14	1.9
MW24-20211217	21-8632	17-Dec-21	50	<0.39	<0.54	<0.31	1.7	<0.47	<0.69
IW50-20211217	21-8633	17-Dec-21	50	<0.39	9.2	1.3	<0.22	<0.47	<0.69
MW21-20211217	21-8634	17-Dec-21	50	<0.39	174	62	1.5	31	16
		QL	50	0.39	0.54	0.31	0.22	0.41	0.69

Comments:
Method: Ion Chromatography
QL = Quantitation limit
J = associated value is estimated; compound positively detected at concentration below the QL
< = compound analysed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst:

Alex Sweett, B.Sc.
Laboratory Technician

Results approved:

Michael Healey, B.Sc.
Laboratory Supervisor

Date: 12-Jan-22

SiREM

Chain-of-Custody Form

siremlab.com

130 Research Lane, Ste 2
Guelph ON, Canada N1G 5G3
(519) 822-2265

Lab # S-8782

Project Name	Troy Laundry Property
Project #	0731-004-08
Project Manager	Tom Cammarata
Email	tcammarata@soundearthinc.com
Company	SoundEarth Strategies, Inc.
Address	2811 Fairview Avenue E, Suite 2000
	Seattle, WA 98102
Phone #	206-306-1900
Fax #	206-306-1907
Sampler's Signature	
Sampler's Printed Name	Clare Tochilin

Analysis

Preservative: 0

Volatile Fatty Acids

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

Client Sample ID	Lab ID	Sampling Date	Sampling Time	Matrix	# of Containers	Volatile Fatty Acids	Other Information
MW25-20211217		12/17/21	0823	H2O	2	X	1x air bubble
MW23-20211217			1000			X	
IW04-20211217			1037			X	
IW61-20211217			1116			X	
MW18-20211217			1157			X	
MW22-20211217			1303			X	
MW24-20211217			1314			X	
IW50-20211217			1402			X	
MW21-20211217			1425			X	
					CT	12/17/21	

Sample Receipt

Cooler Condition: Intact - blue ice

Cooler Temperature: 2.7°C KR00056

Custody Seals: Yes ☐ No ☒

Invoice Information

P.O. # 0731-004-08

Bill To: SoundEarth Strategies

For Lab Use Only

client vials

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Clare Tochilin	Printed Name: Kaitland Cracchiola	Printed Name	Printed Name	Printed Name	Printed Name
Firm: SoundEarth Strategies	Firm: SiREM	Firm	Firm	Firm	Firm
Date/Time: 12/20/21 0800	Date/Time: 12/21/21 1045	Date/Time	Date/Time	Date/Time	Date/Time

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

ATTACHMENT B
PLUME STABILITY ANALYSIS RESULTS

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

Site Name:	*Troy Site*
Site Address:	*Seattle, WA*
Additional Description:	*IW04*

Well (Sampling) Location? **IW04**
Level of Confidence (Decision Criteria)? **85%**

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

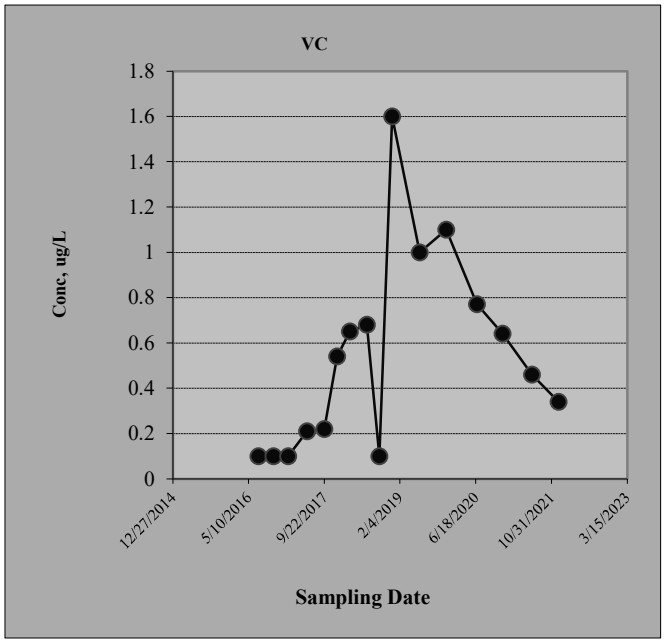
		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	7/14/2016	0.1					
#2	10/21/2016	0.1					
#3	1/26/2017	0.1					
#4	6/1/2017	0.21					
#5	9/23/2017	0.22					
#6	12/16/2017	0.54					
#7	3/10/2018	0.65					
#8	6/30/2018	0.68					
#9	9/22/2018	0.1					
#10	12/15/2018	1.6					
#11	6/15/2019	1					
#12	12/7/2019	1.1					
#13	6/27/2020	0.77					
#14	12/12/2020	0.64					
#15	6/25/2021	0.46					
#16	12/17/2021	0.34					

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**VC**					
Confidence Level Calculated?	98.40%	NA	NA	NA	NA	NA
Plume Stability?	***Expanding***	NA	NA	NA	NA	NA
Coefficient of Variation?		n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	48	0	0	0	0	0
Number of Sampling Rounds?	16	0	0	0	0	0
Average Concentration?	0.54	NA	NA	NA	NA	NA
Standard Deviation?	0.43	NA	NA	NA	NA	NA
Coefficient of Variation?	0.80	NA	NA	NA	NA	NA
Blank if No Errors found		n<4	n<4	n<4	n<4	n<4

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

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



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

Site Name:	*Troy Site*
Site Address:	*Seattle, WA*
Additional Description:	*IW50*

Well (Sampling) Location? **IW50**
Level of Confidence (Decision Criteria)? **85%**

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

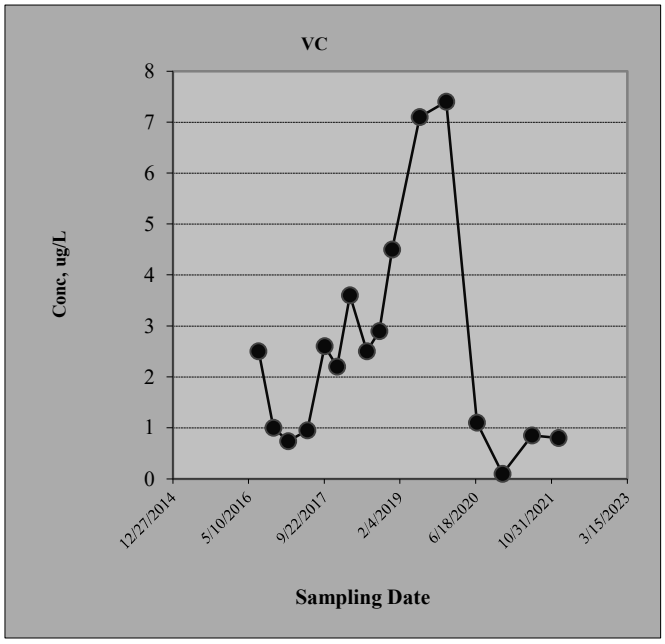
		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	7/15/2016	2.5					
#2	10/21/2016	1					
#3	1/26/2017	0.74					
#4	6/2/2017	0.95					
#5	9/24/2017	2.6					
#6	12/16/2017	2.2					
#7	3/10/2018	3.6					
#8	6/30/2018	2.5					
#9	9/22/2018	2.9					
#10	12/15/2018	4.5					
#11	6/15/2019	7.1					
#12	12/7/2019	7.4					
#13	6/27/2020	1.1					
#14	12/12/2020	0.1					
#15	6/25/2021	0.85					
#16	12/17/2021	0.8					

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**VC**					
Confidence Level Calculated?	55.30%	NA	NA	NA	NA	NA
Plume Stability?	Stable	NA	NA	NA	NA	NA
Coefficient of Variation?	CV <= 1	n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	5	0	0	0	0	0
Number of Sampling Rounds?	16	0	0	0	0	0
Average Concentration?	2.55	NA	NA	NA	NA	NA
Standard Deviation?	2.19	NA	NA	NA	NA	NA
Coefficient of Variation?	0.86	NA	NA	NA	NA	NA
Blank if No Errors found		n<4	n<4	n<4	n<4	n<4

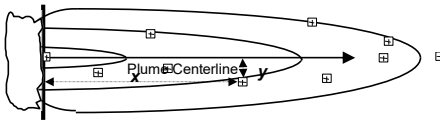
3. Temporal Trend: Plot of Concentration vs. Sampling Time

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



Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle,Washington*
Hazardous Substance	*cis-1,2-DCE*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

Well Location:		Unit		IW61															
Dist from source, x-direction		ft																	
Off-centerline dist, y-direction		ft																	
Sampling Event	Date sampled	day	Unit of concentration is ug/L																
#1	12/8/15	0		120															
#2	3/9/16	92		140															
#3	7/14/16	219		24															
#4	10/21/16	318		34															
#5	1/26/17	415		32															
#6	6/2/17	542		41															
#7	9/23/17	655		45															
#8	12/16/17	739		65															
#9	3/10/18	823		71															
#10	3/23/18	836		82															
#11	6/30/18	935		67															
#12	9/22/18	1019		63															
#13	12/15/18	1103		58															
#14	6/15/19	1285		71															
#15	12/7/19	1460		65															
#16	6/27/20	1663		63															
#17	12/12/20	1831		30															
#18	6/25/21	2026		25															
#19	12/17/21	2201		41															
#20																			
Average Concentration			na	59.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

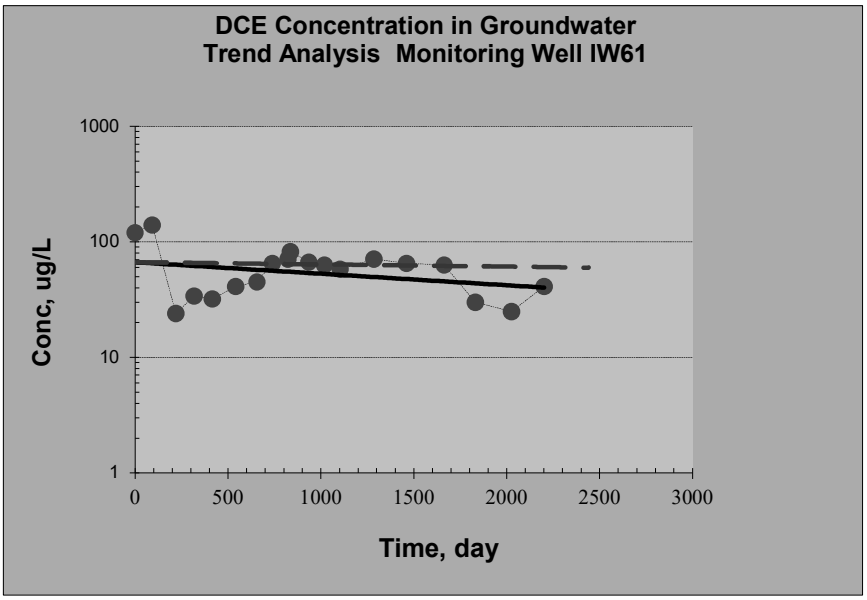
Well Location:																			
Sampling Event	Date sampled	Day																	
#1		0																	
#2		92																	
#3		219																	
#4		318																	
#5		415																	
#6		542																	
#7		655																	
#8		739																	
#9	3/10/18	823																	
#10	3/23/18	836																	
#11	6/30/18	935																	
#12	9/22/18	1019																	
#13	12/15/18	1103																	
#14	6/15/19	1285																	
#15	12/7/19	1460																	
#16	6/27/20	1663																	
#17	12/12/20	1831																	
#18	6/25/21	2026																	
#19	12/17/21	2201																	
#20																			

Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle,Washington*
Hazardous Substance *cis-1,2-DCE*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**IW61**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*79.524%*		
Plume Stability?	Stable	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*0.084* @50% C.L.;	*0.016* @85% C.L.	
Half Life for k_{point}, yr	*8.280* @50% C.L.;	*43.408* @85% C.L.	

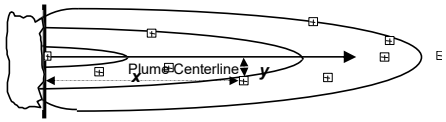


2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle, Washington*
Hazardous Substance	*VC*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

Well Location:		Unit		IW61														
Dist from source, x-direction		ft																
Off-centerline dist, y-direction		ft																
Sampling Event	Date sampled	day	Unit of concentration is ug/L															
#1	12/8/15	0		0.86														
#2	3/9/16	92		1.7														
#3	7/14/16	219		1.6														
#4	10/21/16	318		0.96														
#5	1/26/17	415		0.96														
#6	6/2/17	542		1.3														
#7	9/23/17	655		1.2														
#8	12/16/17	739		1.2														
#9	3/10/18	823		1.1														
#10	3/23/18	836		1.3														
#11	6/30/18	935		1.7														
#12	9/22/18	1019		1.8														
#13	12/15/18	1103		2														
#14	6/15/19	1285		2.9														
#15	12/7/19	1460		4														
#16	6/27/20	1663		4.5														
#17	12/12/20	1831		4.1														
#18	6/25/21	2026		1.8														
#19	12/17/21	2201		3.8														
#20																		
Average Concentration			na	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	0.86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

Well Location:																		
Sampling Event	Date sampled	Day																
#1		0																
#2		92																
#3		219																
#4		318																
#5		415																
#6		542																
#7		655																
#8		739																
#9	3/10/18	823																
#10	3/23/18	836																
#11	6/30/18	935																
#12	9/22/18	1019																
#13	12/15/18	1103																
#14	6/15/19	1285																
#15	12/7/19	1460																
#16	6/27/20	1663																
#17	12/12/20	1831																
#18	6/25/21	2026																
#19	12/17/21	2201																
#20																		

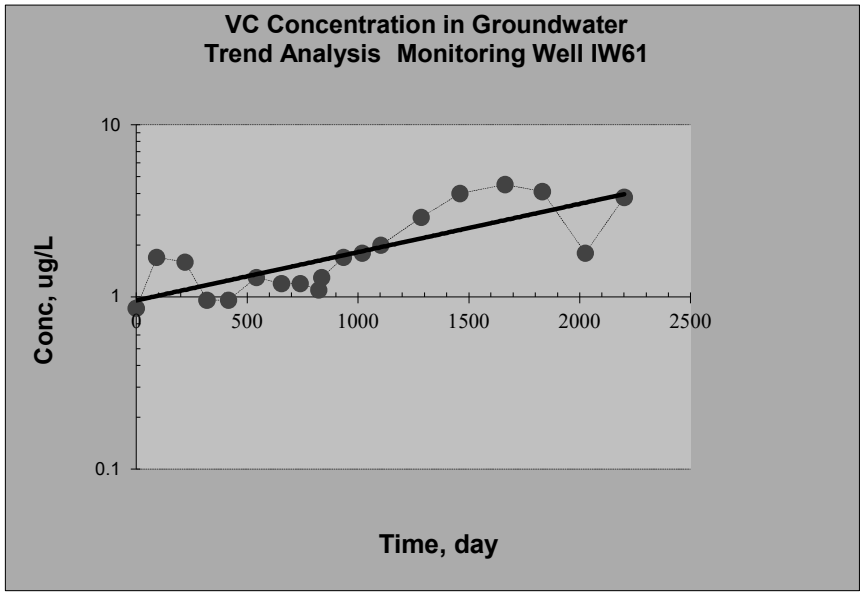
Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle,Washington*
Hazardous Substance *VC*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**IW61**	Confidence Level (Decision Criteria)?	85.0%

Confidence Level calculated with log-linear regression is?	*99.994%*	
Plume Stability?	Expanding	; Decision Criteria is 85%.
Slope: Point decay rate constant (k_{point}), yr^{-1}	*NA* @50% C.L.;	*NA* @85% C.L.
Half Life for k_{point}, yr	*NA* @50% C.L.;	*NA* @85% C.L.

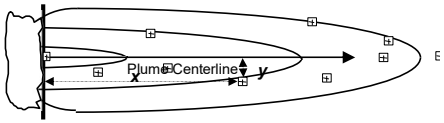


2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle.Washington*
Hazardous Substance	*TCE*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

Well Location:		Unit		MW04															
Dist from source, x-direction		ft																	
Off-centerline dist, y-direction		ft																	
Sampling Event	Date sampled	day	Unit of concentration is ug/L																
#1	05/08/15	0		22															
#2	08/06/15	90		13															
#3	12/09/15	215		6.9															
#4	03/08/16	305		9.2															
#5	07/13/16	432		9.6															
#6	10/19/16	530		8.9															
#7	01/24/17	627		5.5															
#8	05/31/17	754		9.4															
#9	09/21/17	867		9.3															
#10	12/14/17	951		5.7															
#11	03/09/18	1036		8															
#12	06/29/18	1148		8.6															
#13	09/20/18	1231		9.4															
#14	12/14/18	1316		9.4															
#15	06/14/19	1498		10															
#16	12/05/19	1672		11															
#17	06/26/20	1876		11															
#18	12/11/20	2044		9.2															
#19	06/23/21	2238		11															
#20	12/15/21	2413		8															
Average Concentration			na	14.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

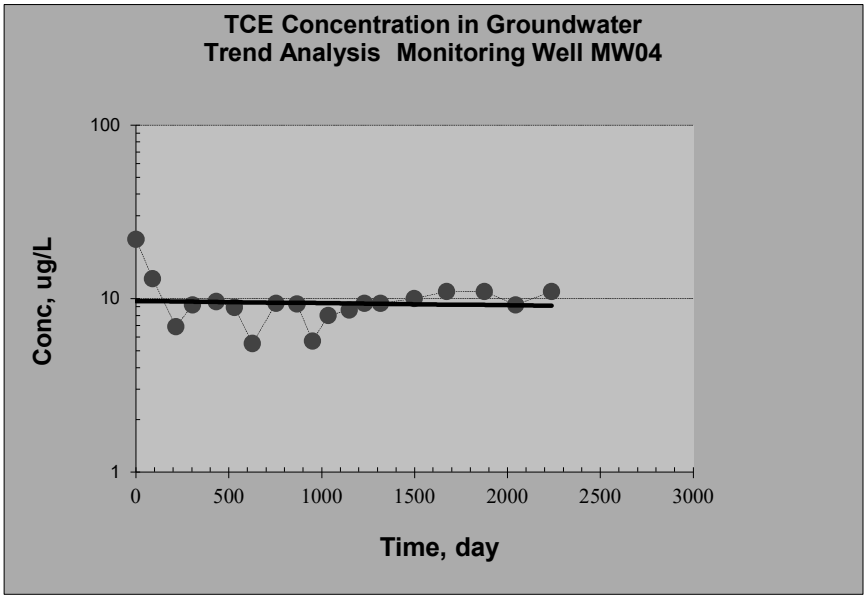
Well Location:																			
Sampling Event	Date sampled	Day																	
#1		0																	
#2		90																	
#3		215																	
#4		305																	
#5		432																	
#6		530																	
#7		627																	
#8		754																	
#9	9/21/17	867																	
#10	12/14/17	951																	
#11	3/9/18	1036																	
#12	6/29/18	1148																	
#13	9/20/18	1231																	
#14	12/14/18	1316																	
#15	6/14/19	1498																	
#16	12/5/19	1672																	
#17	6/26/20	1876																	
#18	12/11/20	2044																	
#19	6/23/21	2238																	
#20	12/15/21	2413																	

Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle.Washington*
Hazardous Substance *TCE*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW04**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*35.767%*		
Plume Stability?	Stable	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*0.016* @50% C.L.;	*NA* @85% C.L.	
Half Life for k_{point}, yr	*42.600* @50% C.L.;	*NA* @85% C.L.	

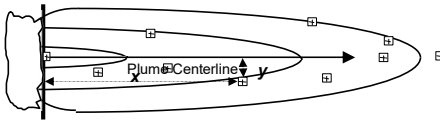


2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle.Washington*
Hazardous Substance	*TCE*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

Well Location:		Unit		MW07															
Dist from source, x-direction		ft																	
Off-centerline dist, y-direction		ft																	
Sampling Event	Date sampled	day	Unit of concentration is ug/L																
#1	10/12/11	0		11															
#2	09/09/13	698		33															
#3	05/08/15	1304		15															
#4	08/05/15	1393		12															
#5	12/09/15	1519		14															
#6	03/08/16	1609		13															
#7	07/13/16	1736		18															
#8	10/19/16	1834		13															
#9	01/24/17	1931		8.1															
#10	05/31/17	2058		8.6															
#11	03/08/18	2339		11															
#12	06/29/18	2452		7.3															
#13	09/20/18	2535		6															
#14	12/14/18	2620		6.7															
#15	06/14/19	2802		5.9															
#16	12/05/19	2976		5.9															
#17	06/30/20	3184		5.8															
#18	12/10/20	3347		18															
#19	06/23/21	3542		15															
#20	12/15/21	3717		7.2															
Average Concentration			na	11.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

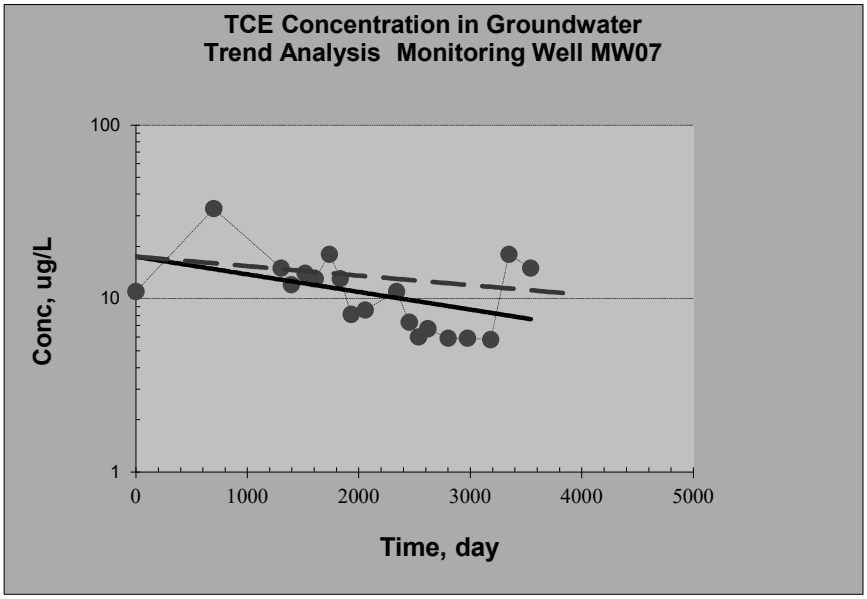
Well Location:																			
Sampling Event	Date sampled	Day																	
#1		0																	
#2		698																	
#3		1304																	
#4		1393																	
#5		1519																	
#6		1609																	
#7		1736																	
#8		1834																	
#9	1/24/17	1931																	
#10	5/31/17	2058																	
#11	3/8/18	2339																	
#12	6/29/18	2452																	
#13	9/20/18	2535																	
#14	12/14/18	2620																	
#15	6/14/19	2802																	
#16	12/5/19	2976																	
#17	6/30/20	3184																	
#18	12/10/20	3347																	
#19	6/23/21	3542																	
#20	12/15/21	3717																	

Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle.Washington*
Hazardous Substance *TCE*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW07**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*96.653%*		
Plume Stability?	Shrinking	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*0.086* @50% C.L.;	*0.046* @85% C.L.	
Half Life for k_{point}, yr	*8.078* @50% C.L.;	*15.037* @85% C.L.	

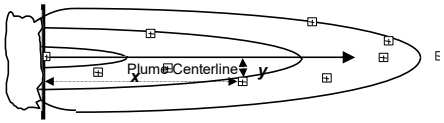


2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle.Washington*
Hazardous Substance	*PCE*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

Well Location:		Unit		MW13														
Dist from source, x-direction		ft																
Off-centerline dist, y-direction		ft																
Sampling Event	Date sampled	day	Unit of concentration is ug/L															
#1	8/5/15	0		5.4														
#2	12/15/15	132		5.6														
#3	3/7/16	215		6.6														
#4	7/12/16	342		6.5														
#5	10/19/16	441		10														
#6	1/24/17	538		6.4														
#7	5/31/17	665		10														
#8	9/21/17	778		8.4														
#9	12/14/17	862		5.2														
#10	3/8/18	946		8														
#11	6/29/18	1059		4.4														
#12	9/20/18	1142		6.5														
#13	12/14/18	1227		7.8														
#14	6/14/19	1409		7														
#15	12/5/19	1583		7.7														
#16	6/26/20	1787		9.1														
#17	12/10/20	1954		7.2														
#18	6/23/21	2149		4.1														
#19	12/16/21	2325		5.2														
#20																		
Average Concentration			na	6.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

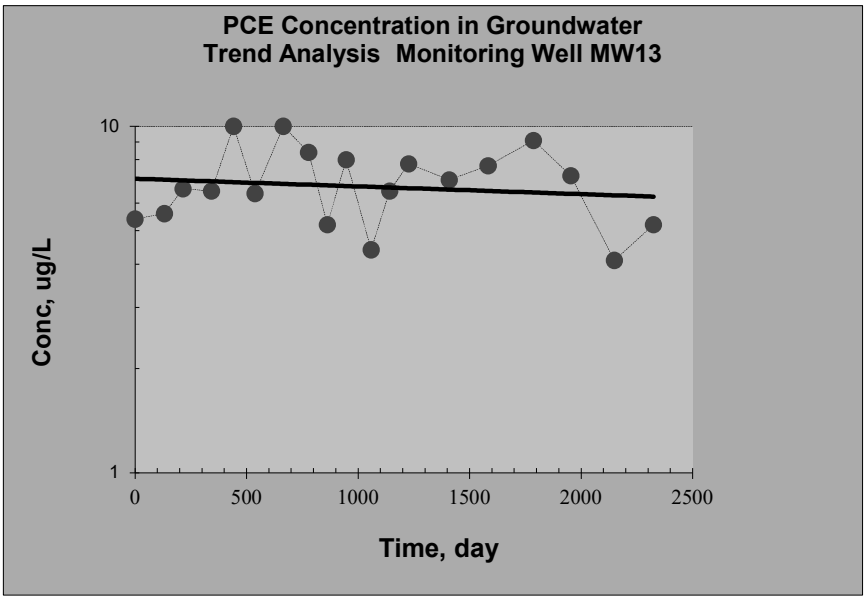
Well Location:																		
Sampling Event	Date sampled	Day																
#1		0																
#2		132																
#3		215																
#4		342																
#5		441																
#6		538																
#7		665																
#8		778																
#9	12/14/17	862																
#10	3/8/18	946																
#11	6/29/18	1059																
#12	9/20/18	1142																
#13	12/14/18	1227																
#14	6/14/19	1409																
#15	12/5/19	1583																
#16	6/26/20	1787																
#17	12/10/20	1954																
#18	6/23/21	2149																
#19	12/16/21	2325																
#20																		

Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle.Washington*
Hazardous Substance *PCE*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW13**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*42.958%*		
Plume Stability?	Stable	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*0.019* @50% C.L.;	*NA* @85% C.L.	
Half Life for k_{point}, yr	*37.130* @50% C.L.;	*NA* @85% C.L.	

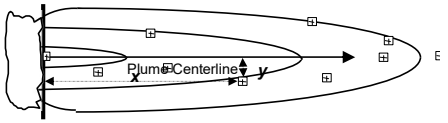


2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle.Washington*
Hazardous Substance	*VC*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

Well Location:		Unit		MW18															
Dist from source, x-direction		ft																	
Off-centerline dist, y-direction		ft																	
Sampling Event	Date sampled	day	Unit of concentration is ug/L																
#1	5/6/15	0		0.1															
#2	8/3/15	89		0.1															
#3	12/8/15	216		0.1															
#4	3/8/16	307		0.1															
#5	7/14/16	435		0.1															
#6	10/20/16	533		0.1															
#7	1/26/17	631		0.25															
#8	6/1/17	757		0.31															
#9	9/23/17	871		0.38															
#10	12/16/17	955		0.24															
#11	3/10/18	1039		0.4															
#12	6/30/18	1151		0.43															
#13	9/22/18	1235		0.42															
#14	12/15/18	1319		0.49															
#15	6/15/19	1501		0.44															
#16	12/7/19	1676		0.55															
#17	6/27/20	1879		1.5															
#18	12/12/20	2047		2.4															
#19	6/25/21	2242		1.7															
#20	12/17/21	2417		1.8															
Average Concentration			na	0.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

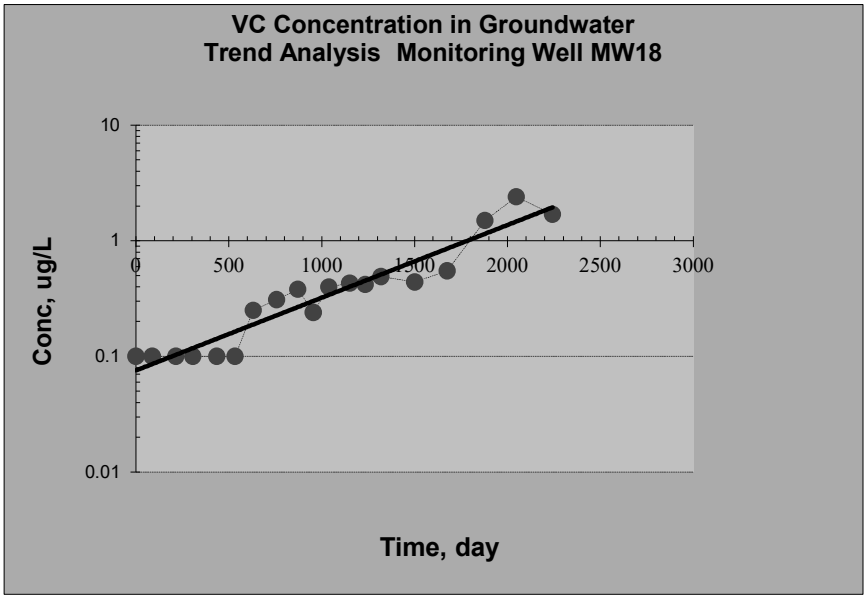
Well Location:																			
Sampling Event	Date sampled	Day																	
#1		0																	
#2		89																	
#3		216																	
#4		307																	
#5		435																	
#6		533																	
#7		631																	
#8		757																	
#9	9/23/17	871																	
#10	12/16/17	955																	
#11	3/10/18	1039																	
#12	6/30/18	1151																	
#13	9/22/18	1235																	
#14	12/15/18	1319																	
#15	6/15/19	1501																	
#16	12/7/19	1676																	
#17	6/27/20	1879																	
#18	12/12/20	2047																	
#19	6/25/21	2242																	
#20	12/17/21	2417																	

Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle.Washington*
Hazardous Substance *VC*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW18**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*100.000%*		
Plume Stability?	Expanding	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*NA* @50% C.L.;	*NA* @85% C.L.	
Half Life for k_{point}, yr	*NA* @50% C.L.;	*NA* @85% C.L.	



2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

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

Site Name:	*Troy Site*
Site Address:	*Seattle, WA*
Additional Description:	*VC*

Well (Sampling) Location?	**MW-19**
Level of Confidence (Decision Criteria)?	**85%**

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

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	3/8/2016	0.1					
#2	7/13/2016	0.1					
#3	10/21/2016	0.4					
#4	1/25/2017	0.3					
#5	6/1/2017	0.44					
#6	9/23/2017	0.97					
#7	12/16/2017	0.97					
#8	3/10/2018	0.78					
#9	6/30/2018	0.96					
#10	9/22/2018	0.86					
#11	6/15/2019	0.79					
#12	12/7/2019	0.98					
#13	6/27/2020	0.78					
#14	12/12/2020	2.6					
#15	6/25/2021	1					
#16	12/17/2021	1.5					

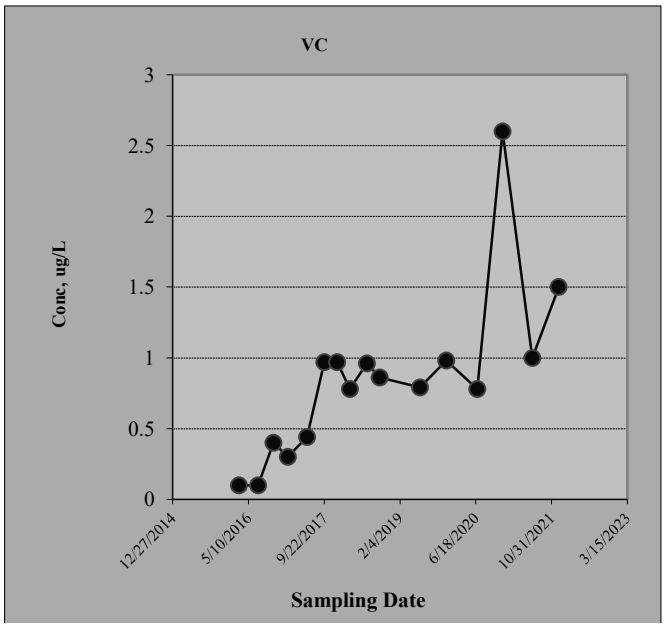
2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**VC**					
Confidence Level Calculated?	100.00%	NA	NA	NA	NA	NA
Plume Stability?	***Expanding***	NA	NA	NA	NA	NA
Coefficient of Variation?		n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	77	0	0	0	0	0
Number of Sampling Rounds?	16	0	0	0	0	0
Average Concentration?	0.85	NA	NA	NA	NA	NA
Standard Deviation?	0.60	NA	NA	NA	NA	NA
Coefficient of Variation?	0.71	NA	NA	NA	NA	NA
Blank if No Errors found		n<4	n<4	n<4	n<4	n<4

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

Hazardous substance? **VC**

Plume Stability? **Expanding**



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

Site Name:	*Troy Site*
Site Address:	*Seattle, WA*
Additional Description:	*VC*

Well (Sampling) Location?	**MW-21**
Level of Confidence (Decision Criteria)?	**85%**

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

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	7/13/2016	0.1					
#2	10/20/2016	0.1					
#3	1/26/2017	0.1					
#4	6/1/2017	0.1					
#5	9/23/2017	0.1					
#6	12/16/2017	0.49					
#7	3/10/2018	0.43					
#8	6/30/2018	0.29					
#9	9/22/2018	0.3					
#10	12/15/2018	0.96					
#11	6/15/2019	1.1					
#12	12/7/2019	1.3					
#13	6/27/2020	0.49					
#14	12/12/2020	1.8					
#15	6/25/2021	0.86					
#16	12/17/2021	1.3					

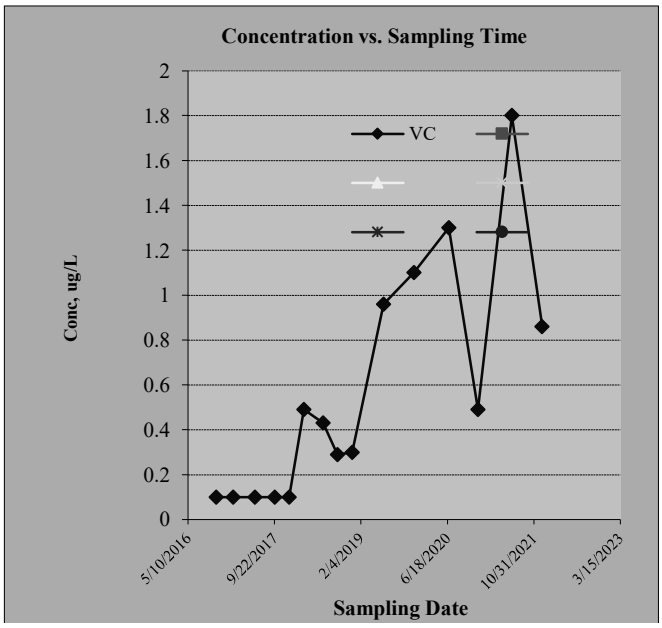
2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**VC**					
Confidence Level Calculated?	100.00%	NA	NA	NA	NA	NA
Plume Stability?	***Expanding***	NA	NA	NA	NA	NA
Coefficient of Variation?		n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	82	0	0	0	0	0
Number of Sampling Rounds?	16	0	0	0	0	0
Average Concentration?	0.61	NA	NA	NA	NA	NA
Standard Deviation?	0.54	NA	NA	NA	NA	NA
Coefficient of Variation?	0.88	NA	NA	NA	NA	NA
Blank if No Errors found		n<4	n<4	n<4	n<4	n<4

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

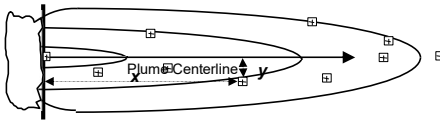
Hazardous substance? **VC**

Plume Stability? **Expanding**



Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle,Washington*
Hazardous Substance	*cis-1,2-DCE*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

Well Location:		Unit		MW22														
Dist from source, x-direction		ft																
Off-centerline dist, y-direction		ft																
Sampling Event	Date sampled	day	Unit of concentration is ug/L															
#1	5/7/15	0		13														
#2	8/4/15	89		20														
#3	12/8/15	215		120														
#4	3/8/16	306		95														
#5	7/14/16	434		14														
#6	10/20/16	532		9.9														
#7	1/26/17	630		41														
#8	6/1/17	756		23														
#9	9/23/17	870		16														
#10	12/16/17	954		14														
#11	3/10/18	1038		20														
#12	6/30/18	1150		14														
#13	9/22/18	1234		16														
#14	12/15/18	1318		17														
#15	6/15/19	1500		25														
#16	12/7/19	1675		38														
#17	6/27/20	1878		42														
#18	12/12/20	2046		44														
#19	6/25/21	2241		43														
#20	12/17/21	2416		52														
Average Concentration			na	33.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	9.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

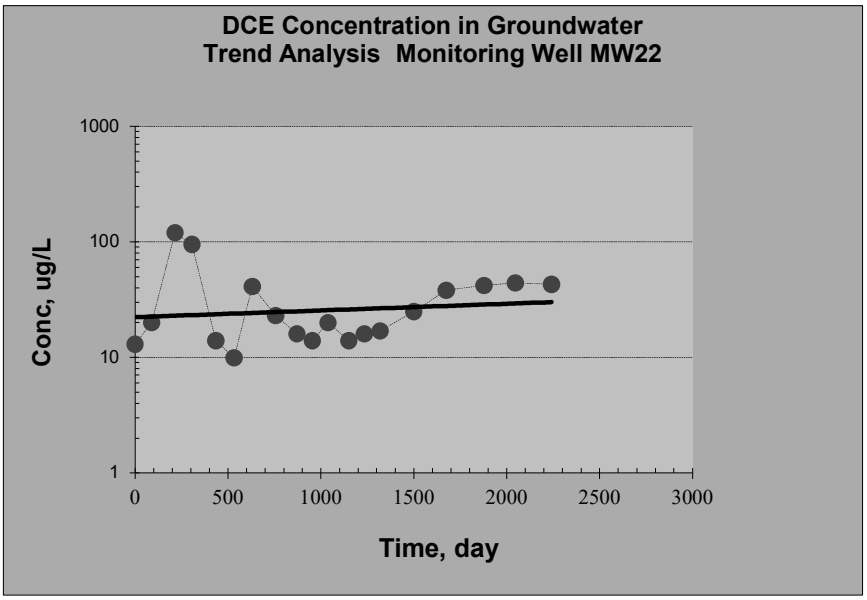
Well Location:																		
Sampling Event	Date sampled	Day																
#1		0																
#2		89																
#3		215																
#4		306																
#5		434																
#6		532																
#7		630																
#8		756																
#9		870																
#10		954																
#11		1038																
#12		1150																
#13		1234																
#14		1318																
#15		1500																
#16		1675																
#17		1878																
#18		2046																
#19		2241																
#20		2416																

Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle,Washington*
Hazardous Substance *cis-1,2-DCE*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW22**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*63.895%*		
Plume Stability?	Stable	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*0.075* @50% C.L.;	*NA* @85% C.L.	
Half Life for k_{point}, yr	*9.245* @50% C.L.;	*NA* @85% C.L.	

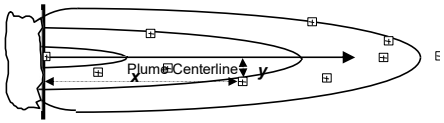


2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle,Washington*
Hazardous Substance	*VC*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

Well Location:		Unit		MW22														
Dist from source, x-direction		ft																
Off-centerline dist, y-direction		ft																
Sampling Event	Date sampled	day	Unit of concentration is ug/L															
#1	5/7/15	0		0.1														
#2	8/4/15	89		0.2														
#3	12/8/15	215		0.57														
#4	3/8/16	306		0.64														
#5	7/14/16	434		2.2														
#6	10/20/16	532		0.48														
#7	1/26/17	630		1.4														
#8	6/1/17	756		0.74														
#9	9/23/17	870		0.5														
#10	12/16/17	954		0.51														
#11	3/10/18	1038		0.52														
#12	6/30/18	1150		0.53														
#13	9/22/18	1234		0.53														
#14	12/15/18	1318		0.1														
#15	6/15/19	1500		0.72														
#16	12/7/19	1675		0.89														
#17	6/27/20	1878		0.99														
#18	12/12/20	2046		1.1														
#19	6/21/21	2237		0.82														
#20	12/17/21	2416		1.2														
Average Concentration			na	0.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

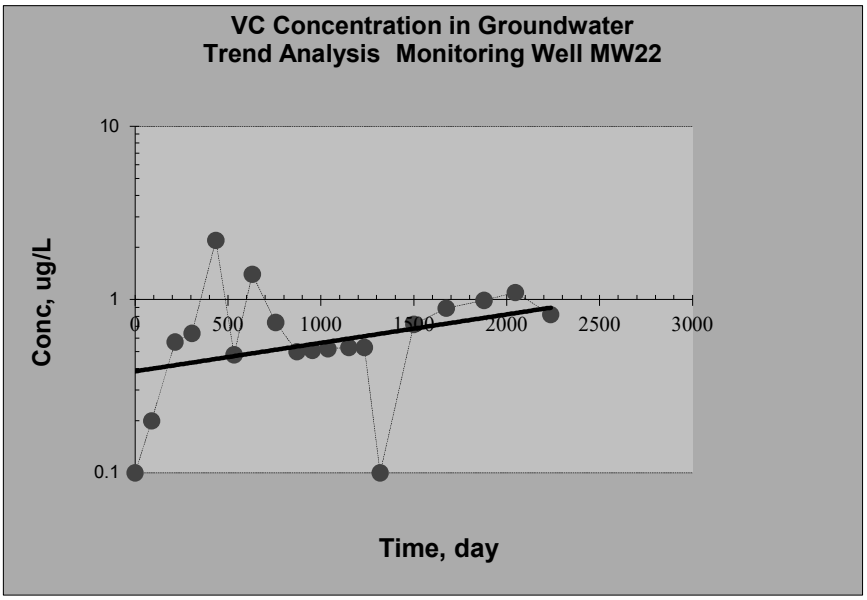
Well Location:																		
Sampling Event	Date sampled	Day																
#1		0																
#2		89																
#3		215																
#4		306																
#5		434																
#6		532																
#7		630																
#8		756																
#9	9/23/17	870																
#10	12/16/17	954																
#11	3/10/18	1038																
#12	6/30/18	1150																
#13	9/22/18	1234																
#14	12/15/18	1318																
#15	6/15/19	1500																
#16	12/7/19	1675																
#17	6/27/20	1878																
#18	12/12/20	2046																
#19	6/21/21	2237																
#20	12/17/21	2416																

Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle,Washington*
Hazardous Substance *VC*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW22**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*89.844%*		
Plume Stability?	Expanding	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*NA* @50% C.L.;	*NA* @85% C.L.	
Half Life for k_{point}, yr	*NA* @50% C.L.;	*NA* @85% C.L.	



2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

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

Site Name:	*Troy Site*
Site Address:	*Seattle, Washington*
Additional Description:	*MW23*

Well (Sampling) Location?	**MW23**
Level of Confidence (Decision Criteria)?	**85%**

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

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	cDCE					
#1	7/14/2016	14					
#2	10/20/2016	9.9					
#3	1/26/2017	41					
#4	6/1/2017	23					
#5	9/23/2017	16					
#6	12/16/2017	14					
#7	3/10/2018	20					
#8	6/30/2018	14					
#9	9/22/2018	16					
#10	12/15/2018	17					
#11	6/15/2019	25					
#12	12/7/2019	38					
#13	6/27/2020	30					
#14	12/12/2020	30					
#15	6/25/2021	26					
#16	12/17/2021	15					

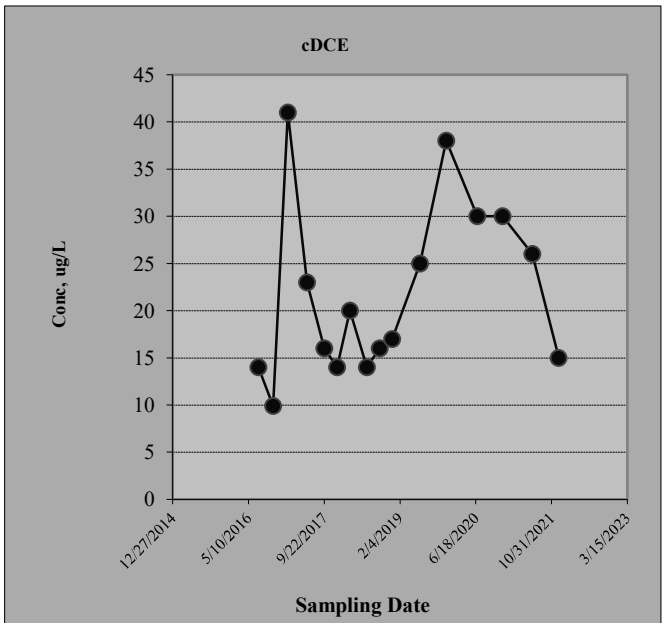
2. Mann-Kendall Non-parametric Statistical Test Results

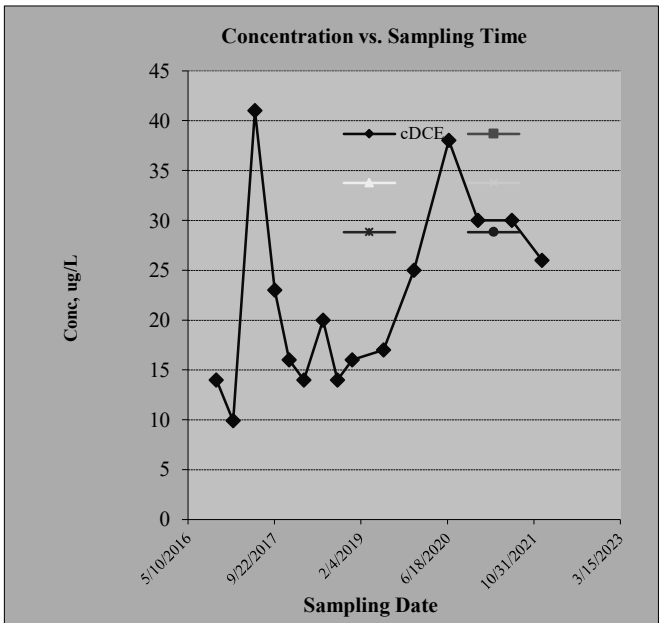
Hazardous Substance?	**cDCE**					
Confidence Level Calculated?	93.00%	NA	NA	NA	NA	NA
Plume Stability?	***Expanding***	NA	NA	NA	NA	NA
Coefficient of Variation?		n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	35	0	0	0	0	0
Number of Sampling Rounds?	16	0	0	0	0	0
Average Concentration?	21.81	NA	NA	NA	NA	NA
Standard Deviation?	9.16	NA	NA	NA	NA	NA
Coefficient of Variation?	0.42	NA	NA	NA	NA	NA
Blank if No Errors found		n<4	n<4	n<4	n<4	n<4

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

Hazardous substance? **cDCE**

Plume Stability? **Expanding**



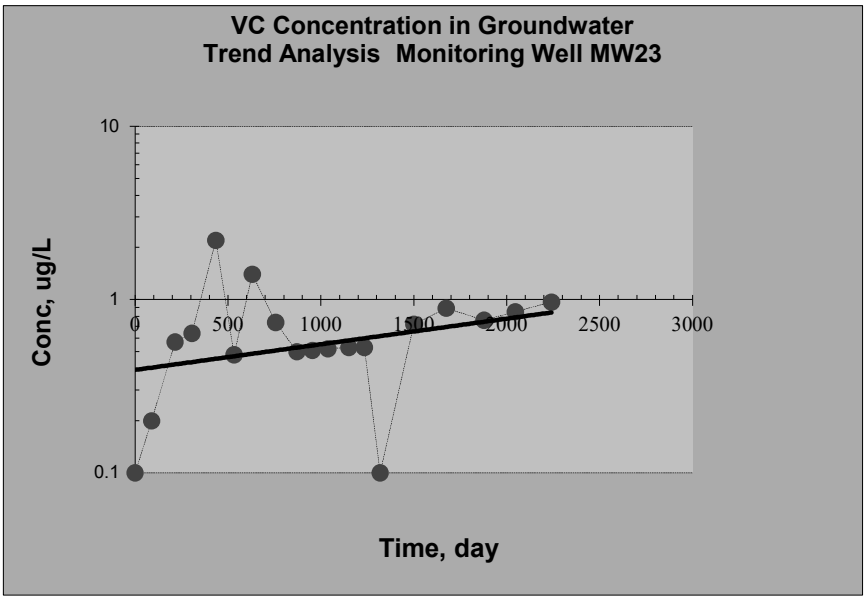


Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle.Washington*
Hazardous Substance *VC*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW23**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*95.186%*		
Plume Stability?	Expanding	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*NA* @50% C.L.;	*NA* @85% C.L.	
Half Life for k_{point}, yr	*NA* @50% C.L.;	*NA* @85% C.L.	

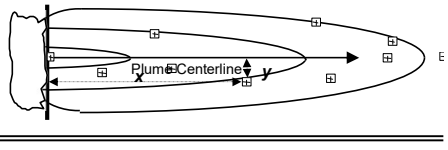


2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle.Washington*
Hazardous Substance	*VC*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

Well Location:		Unit		MW23															
Dist from source, x-direction		ft																	
Off-centerline dist, y-direction		ft																	
Sampling Event	Date sampled	day	Unit of concentration is ug/L																
#1	5/7/15	0		0.1															
#2	8/4/15	89		0.2															
#3	12/8/15	215		0.57															
#4	3/8/16	306		0.64															
#5	7/14/16	434		2.2															
#6	10/20/16	532		0.48															
#7	1/26/17	630		1.4															
#8	6/1/17	756		0.74															
#9	9/23/17	870		0.5															
#10	12/16/17	954		0.51															
#11	3/10/18	1038		0.52															
#12	6/30/18	1150		0.53															
#13	9/22/18	1234		0.53															
#14	12/15/18	1318		0.1															
#15	6/15/19	1500		0.72															
#16	12/7/19	1675		0.89															
#17	6/27/20	1878		0.76															
#18	12/12/20	2046		0.85															
#19	6/25/21	2241		0.97															
#20	12/17/21	2416		3.7															
Average Concentration			na	0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

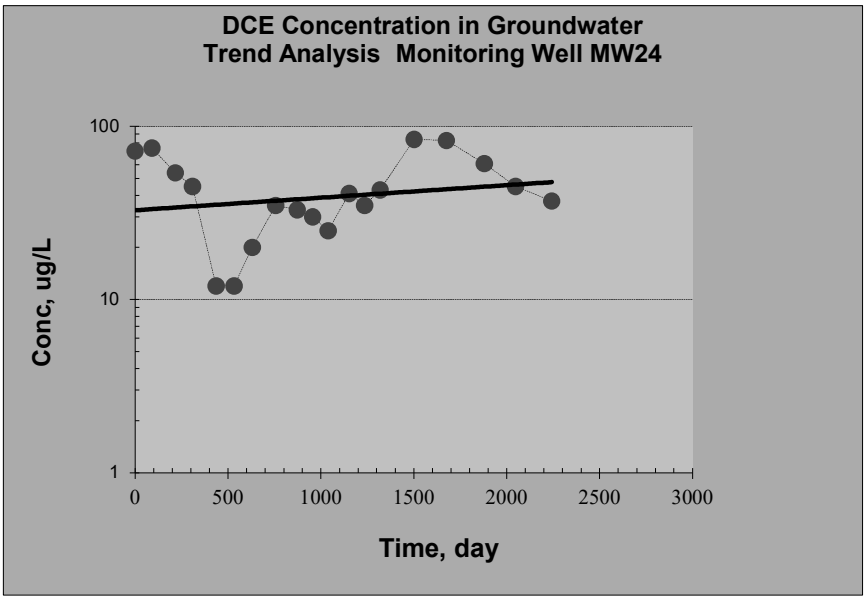
Well Location:																			
Sampling Event	Date sampled	Day																	
#1		0																	
#2		89																	
#3		215																	
#4		306																	
#5		434																	
#6		532																	
#7		630																	
#8		756																	
#9	9/23/17	870																	
#10	12/16/17	954																	
#11	3/10/18	1038																	
#12	6/30/18	1150																	
#13	9/22/18	1234																	
#14	12/15/18	1318																	
#15	6/15/19	1500																	
#16	12/7/19	1675																	
#17	6/27/20	1878																	
#18	12/12/20	2046																	
#19	6/25/21	2241																	
#20	12/17/21	2416																	

Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle,Washington*
Hazardous Substance *cis-1,2-DCE*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW24**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*61.305%*		
Plume Stability?	Stable	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*0.058* @50% C.L.;	*NA* @85% C.L.	
Half Life for k_{point}, yr	*12.028* @50% C.L.;	*NA* @85% C.L.	



2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

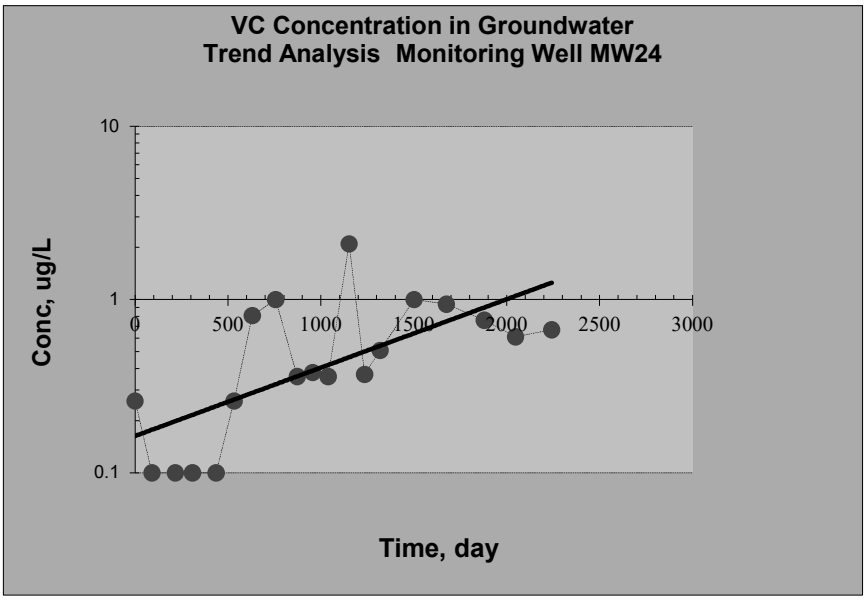
Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle,Washington*
Hazardous Substance *VC*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW24**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*99.839%*		
Plume Stability?	Expanding	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*NA* @50% C.L.;	*NA* @85% C.L.	
Half Life for k_{point}, yr	*NA* @50% C.L.;	*NA* @85% C.L.	



2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

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

Site Name:	*Troy Site*
Site Address:	*Seattle, Washington*
Additional Description:	*MW25*

Well (Sampling) Location?	**MW25**
Level of Confidence (Decision Criteria)?	**85%**

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

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	VC					
#1	7/13/2016	0.7					
#2	10/19/2016	0.96					
#3	1/25/2017	0.89					
#4	6/1/2017	0.31					
#5	9/23/2017	0.4					
#6	12/16/2017	0.41					
#7	3/10/2018	0.32					
#8	6/30/2018	0.52					
#9	9/22/2018	0.46					
#10	12/15/2018	0.6					
#11	6/15/2019	0.54					
#12	12/7/2019	0.63					
#13	6/27/2020	0.73					
#14	12/12/2020	0.43					
#15	6/25/2021	0.79					
#16	12/17/2021	3.6					

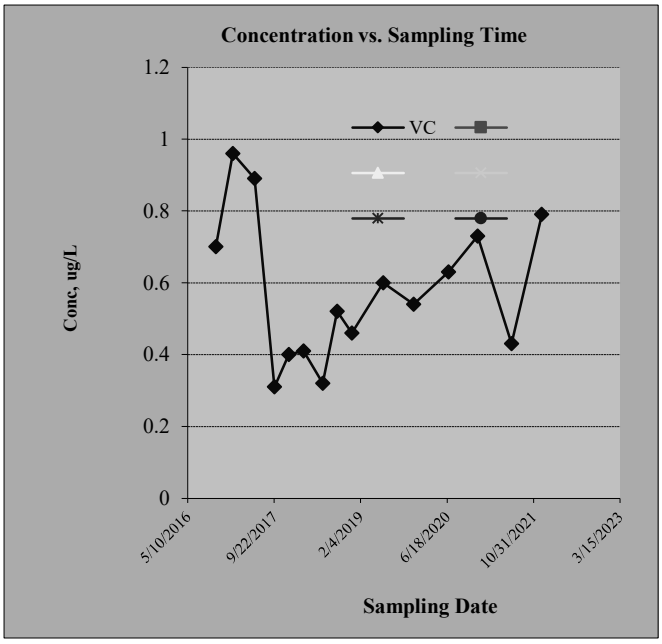
2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**VC**					
Confidence Level Calculated?	90.30%	NA	NA	NA	NA	NA
Plume Stability?	***Expanding***	NA	NA	NA	NA	NA
Coefficient of Variation?		n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	30	0	0	0	0	0
Number of Sampling Rounds?	16	0	0	0	0	0
Average Concentration?	0.77	NA	NA	NA	NA	NA
Standard Deviation?	0.78	NA	NA	NA	NA	NA
Coefficient of Variation?	1.02	NA	NA	NA	NA	NA
Blank if No Errors found		n<4	n<4	n<4	n<4	n<4

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

Hazardous substance? **VC**

Plume Stability? **Expanding**

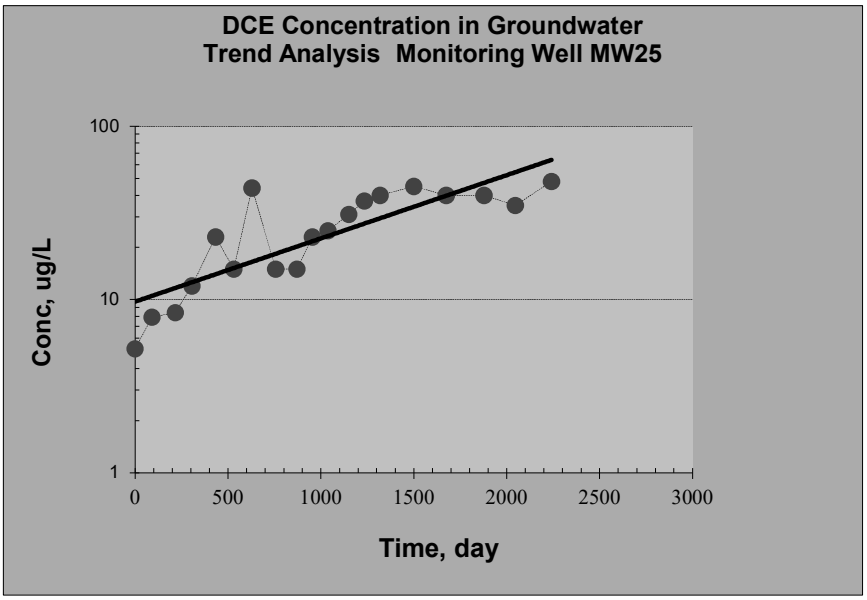


Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle.Washington*
Hazardous Substance *cis-1,2-DCE*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW25**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*99.819%*		
Plume Stability?	Expanding	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*NA* @50% C.L.;	*NA* @85% C.L.	
Half Life for k_{point}, yr	*NA* @50% C.L.;	*NA* @85% C.L.	

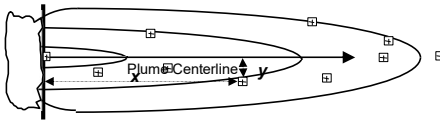


2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	

Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle.Washington*
Hazardous Substance	*cis-1,2-DCE*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

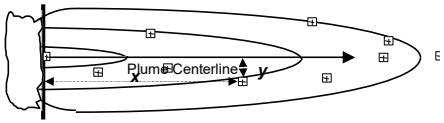
Well Location:		Unit		MW25														
Dist from source, x-direction		ft																
Off-centerline dist, y-direction		ft																
Sampling Event	Date sampled	day	Unit of concentration is ug/L															
#1	5/7/15	0		5.2														
#2	8/5/15	90		7.9														
#3	12/9/15	216		8.4														
#4	3/8/16	306		12														
#5	7/13/16	433		23														
#6	10/19/16	531		15														
#7	1/25/17	629		44														
#8	6/1/17	756		15														
#9	9/23/17	870		15														
#10	12/16/17	954		23														
#11	3/10/18	1038		25														
#12	6/30/18	1150		31														
#13	9/22/18	1234		37														
#14	12/15/18	1318		40														
#15	6/15/19	1500		45														
#16	12/7/19	1675		40														
#17	6/27/20	1878		40														
#18	12/12/20	2046		35														
#19	6/25/21	2241		48														
#20	12/17/21	2416		13														
Average Concentration			na	26.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

Well Location:																		
Sampling Event	Date sampled	Day																
#1		0																
#2		90																
#3		216																
#4		306																
#5		433																
#6		531																
#7		629																
#8		756																
#9	9/23/17	870																
#10	12/16/17	954																
#11	3/10/18	1038																
#12	6/30/18	1150																
#13	9/22/18	1234																
#14	12/15/18	1318																
#15	6/15/19	1500																
#16	12/7/19	1675																
#17	6/27/20	1878																
#18	12/12/20	2046																
#19	6/25/21	2241																
#20	12/17/21	2416																

Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle.Washington*
Hazardous Substance	*TCE*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

Well Location:		Unit		MW26															
Dist from source, x-direction		ft																	
Off-centerline dist, y-direction		ft																	
Sampling Event	Date sampled	day	Unit of concentration is ug/L																
#1	12/10/15	0		11															
#2	03/07/16	88		10															
#3	07/12/16	215		12															
#4	10/18/16	313		12															
#5	01/24/17	411		13															
#6	05/31/17	538		7.9															
#7	09/21/17	651		7.1															
#8	12/14/17	735		15															
#9	03/09/18	820		6															
#10	06/28/18	931		18															
#11	09/20/18	1015		18															
#12	12/14/18	1100		20															
#13	06/14/19	1282		20															
#14	12/05/19	1456		13															
#15	06/26/20	1660		13															
#16	12/11/20	1828		4															
#17	06/24/21	2023		6.6															
#18	12/15/21	2197		7.9															
#19																			
#20																			
Average Concentration			na	11.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

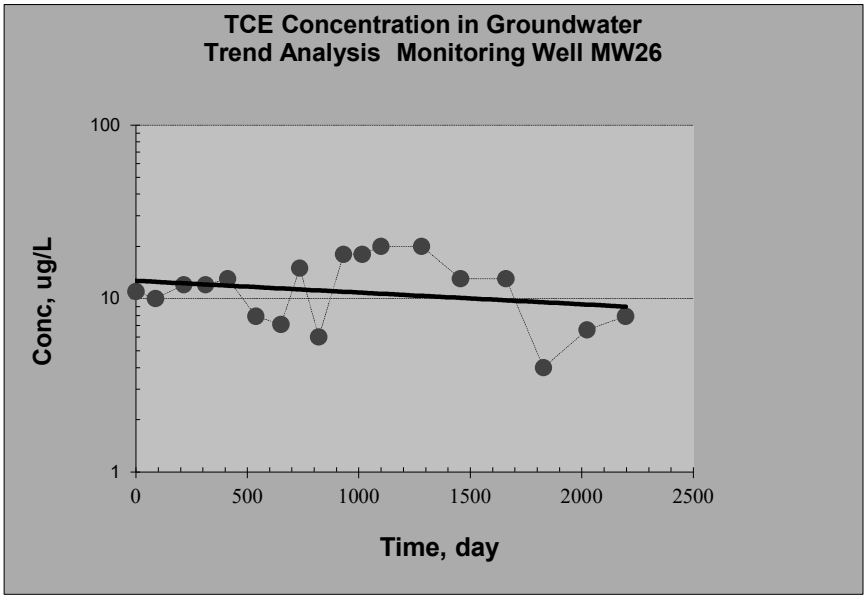
Well Location:																			
Sampling Event	Date sampled	Day																	
#1		0																	
#2		88																	
#3		215																	
#4		313																	
#5		411																	
#6		538																	
#7		651																	
#8		735																	
#9	3/9/18	820																	
#10	6/28/18	931																	
#11	9/20/18	1015																	
#12	12/14/18	1100																	
#13	6/14/19	1282																	
#14	12/5/19	1456																	
#15	6/26/20	1660																	
#16	12/11/20	1828																	
#17	6/24/21	2023																	
#18	12/15/21	2197																	
#19																			
#20																			

Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle.Washington*
Hazardous Substance *TCE*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW26**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*64.272%*		
Plume Stability?	Stable	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*0.057* @50% C.L.;	*NA* @85% C.L.	
Half Life for k_{point}, yr	*12.179* @50% C.L.;	*NA* @85% C.L.	



2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1: Sampling date #1	
Plot #2: Sampling date #2	
Plot #3: Sampling date #3	
Plot #4: Sampling date #4	
Plot #5: Sampling date #5	
Plot #6: Sampling date #6	

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

Site Name:	*Troy Site*
Site Address:	*Seattle, Washington*
Additional Description:	*MW27*

Well (Sampling) Location?	**MW-27**
Level of Confidence (Decision Criteria)?	**85%**

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

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	TCE					
#1	5/31/2017	18					
#2	9/21/2017	16					
#3	12/14/2017	81					
#4	12/29/2017	60					
#5	3/8/2018	13					
#6	6/28/2018	37					
#7	9/20/2018	21					
#8	12/14/2018	17					
#9	6/14/2019	14					
#10	12/5/2019	15					
#11	6/26/2020	30					
#12	12/10/2020	69					
#13	6/23/2021	80					
#14	12/15/2021	28					
#15							
#16							

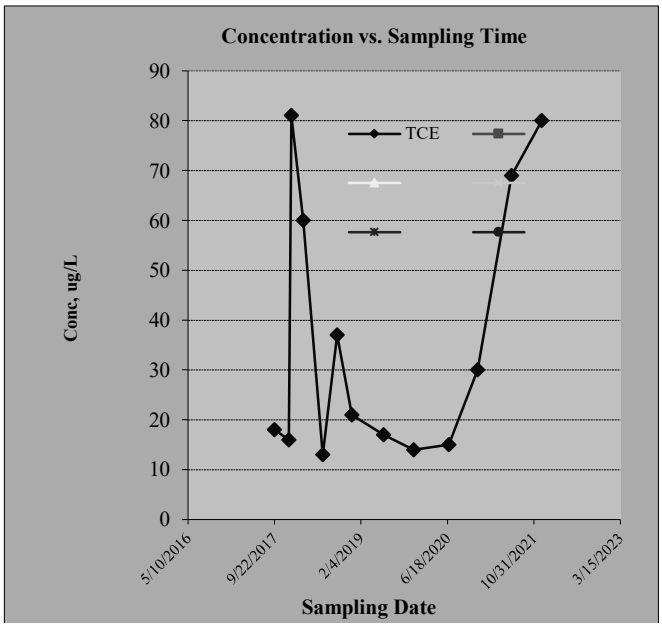
2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**TCE**					
Confidence Level Calculated?	66.60%	NA	NA	NA	NA	NA
Plume Stability?	Stable	NA	NA	NA	NA	NA
Coefficient of Variation?	CV <= 1	n<4	n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	9	0	0	0	0	0
Number of Sampling Rounds?	14	0	0	0	0	0
Average Concentration?	35.64	NA	NA	NA	NA	NA
Standard Deviation?	25.55	NA	NA	NA	NA	NA
Coefficient of Variation?	0.72	NA	NA	NA	NA	NA
Blank if No Errors found		n<4	n<4	n<4	n<4	n<4

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

Hazardous substance? **TCE**

Plume Stability? **Stable**



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

Site Name:	*Troy Site*
Site Address:	*Seattle, Washington*
Additional Description:	*MW28*

Well (Sampling) Location?	**MW28**
Level of Confidence (Decision Criteria)?	**85%**

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

		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	PCE	DCE				
#1	3/15/2019	7.7	67				
#2	6/13/2019	9	80				
#3	10/9/2019	8.7	72				
#4	12/4/2019	8.4	52				
#5	6/26/2020	9.1	22				
#6	12/11/2020	8.3	19				
#7	5/21/2021	9.2	17				
#8	6/23/2021	7	14				
#9	8/17/2021	7.6	18				
#10	9/21/2021	7.5	15				
#11	12/16/2021	5.2	17				
#12							
#13							
#14							
#15							
#16							

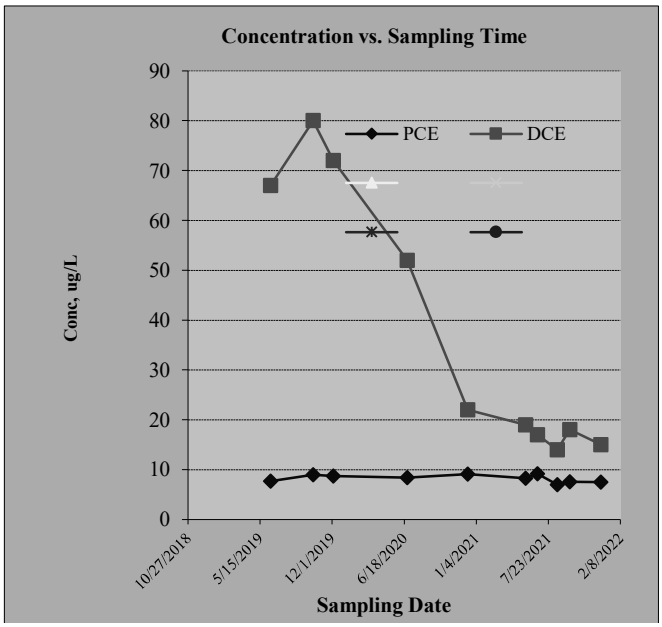
2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**PCE**	**DCE**				
Confidence Level Calculated?	95.70%	99.90%	NA	NA	NA	NA
Plume Stability?	Shrinking	Shrinking	NA	NA	NA	NA
Coefficient of Variation?			n<4	n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	-23	-40	0	0	0	0
Number of Sampling Rounds?	11	11	0	0	0	0
Average Concentration?	7.97	35.73	NA	NA	NA	NA
Standard Deviation?	1.17	26.28	NA	NA	NA	NA
Coefficient of Variation?	0.15	0.74	NA	NA	NA	NA
Blank if No Errors found			n<4	n<4	n<4	n<4

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

Hazardous substance? **PCE**

Plume Stability? **Shrinking**



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

Site Name:	*Troy Site*
Site Address:	*Seattle, Washington*
Additional Description:	*TCE*

Well (Sampling) Location? **MW29**
Level of Confidence (Decision Criteria)? **85%**

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

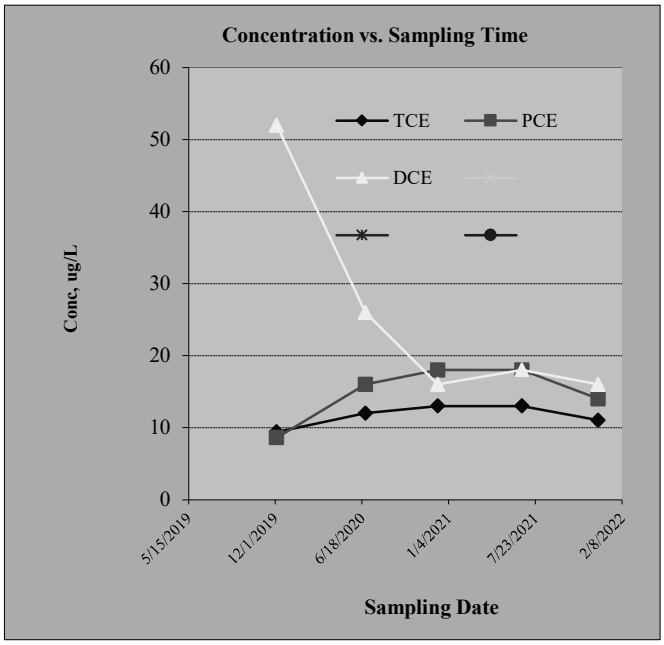
		Hazardous Substances (unit is ug/L)					
Sampling Event	Date Sampled	TCE	PCE	DCE			
#1	10/8/2019	9.4	8.6	52			
#2	12/4/2019	12	16	26			
#3	6/26/2020	13	18	16			
#4	12/10/2020	13	18	18			
#5	6/22/2021	11	14	16			
#6	12/15/2021	12	15	14			
#7							
#8							
#9							
#10							
#11							
#12							
#13							
#14							
#15							
#16							

2. Mann-Kendall Non-parametric Statistical Test Results

Hazardous Substance?	**TCE**	**PCE**	**DCE**			
Confidence Level Calculated?	64.00%	50.00%	97.20%	NA	NA	NA
Plume Stability?	Stable	Stable	Shrinking	NA	NA	NA
Coefficient of Variation?	CV <= 1	CV <= 1		n<4	n<4	n<4
Mann-Kendall Statistic "S" value?	3	2	-12	0	0	0
Number of Sampling Rounds?	6	6	6	0	0	0
Average Concentration?	11.73	14.93	23.67	NA	NA	NA
Standard Deviation?	1.37	3.49	14.50	NA	NA	NA
Coefficient of Variation?	0.12	0.23	0.61	NA	NA	NA
Blank if No Errors found				n<4	n<4	n<4

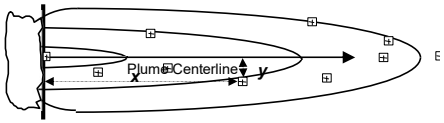
3. Temporal Trend: Plot of Concentration vs. Sampling Time

Hazardous substance? **PCE**
Plume Stability? **Stable**



Module 2: Inputs: Enter Historical Ground Water Data

Site Name:	*Troy Laundry Property*
Site Address:	*300 Boren Ave North Fairview Ave North*
Additional Description:	*Seattle.Washington*
Hazardous Substance	*TCE*



1. Monitoring Well information: Contaminant Concentration at a well: Note: relationship of "y/x ≤ 0.33" is preferred

Well Location:		Unit		MW31														
Dist from source, x-direction		ft																
Off-centerline dist, y-direction		ft																
Sampling Event	Date sampled	day	Unit of concentration is ug/L															
#1	10/9/19	0		1.8														
#2	12/5/19	57		3.3														
#3	7/1/20	266		12														
#4	12/11/20	429		17														
#5	6/24/21	624		5														
#6	12/15/21	798		6.3														
#7																		
#8																		
#9																		
#10																		
#11																		
#12																		
#13																		
#14																		
#15																		
#16																		
#17																		
#18																		
#19																		
#20																		
Average Concentration			na	7.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Concentration			NA	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Concentration			NA	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2. Groundwater Elevation:

Well Location:																		
Sampling Event	Date sampled	Day																
#1		0																
#2		57																
#3		266																
#4		429																
#5		624																
#6		798																
#7																		
#8																		
#9																		
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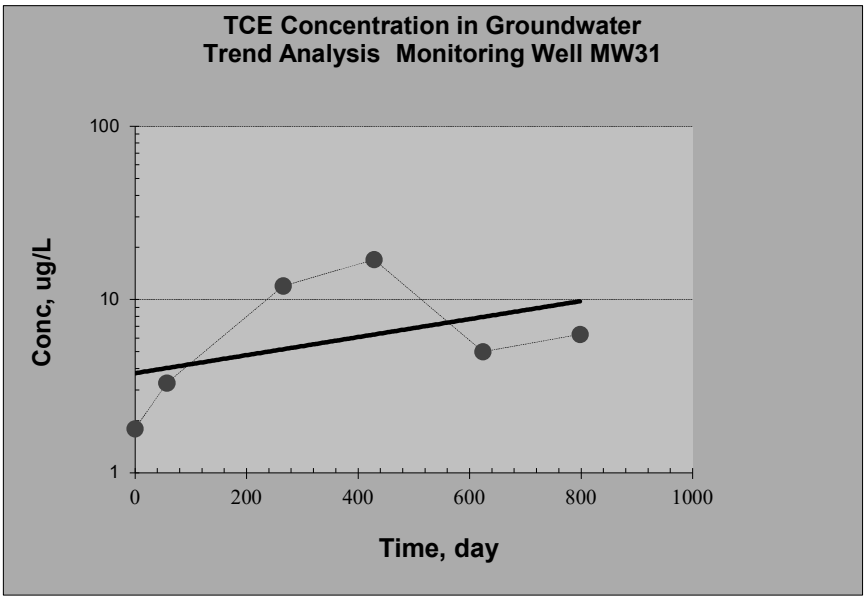
Module 2: Graphical Presentation of Historical Ground Water Data: (Well to Well Analysis)

Site Name: *Troy Laundry Property*
Site Address: *300 Boren Ave North Fairview Ave North*
Additional Description: *Seattle.Washington*
Hazardous Substance *TCE*

1. Temporal Trend at a Well (Concentration vs. Time & Groundwater Elevation : well-to-well analysis)

Name of Sampling Well?	**MW31**	Confidence Level (Decision Criteria)?	85.0%
Confidence Level calculated with log-linear regression is?	*63.881%*		
Plume Stability?	Stable	; Decision Criteria is 85%.	
Slope: Point decay rate constant (k_{point}), yr^{-1}	*0.437* @50% C.L.;	*NA* @85% C.L.	
Half Life for k_{point}, yr	*1.585* @50% C.L.;	*NA* @85% C.L.	



2. Spatial and Temporal Trend along Overall Plume Length for Multiple Wells:

Plot #1:	Sampling date #1	
Plot #2:	Sampling date #2	
Plot #3:	Sampling date #3	
Plot #4:	Sampling date #4	
Plot #5:	Sampling date #5	
Plot #6:	Sampling date #6	