



April 23, 2025

Zak Wall
Washington State Department of Ecology
Toxics Cleanup Program
Northwest Regional Office
15700 Dayton Avenue North
Shoreline, Washington 98133

**RE: 2024-2025 ANNUAL GROUNDWATER MONITORING REPORT
UNION STATION PROPERTY
FACILITY SITE ID NO.: 2060
411 SOUTH JACKSON STREET
SEATTLE, WASHINGTON
FARALLON PN: 2644-001**

Dear Zak Wall:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter report to present the results of quarterly groundwater monitoring events conducted from April 2024 through February 2025 at the Union Station Property at 411 South Jackson Street in Seattle, Washington (herein referred to as the Site) (Figure 1). The Site is identified by the Washington State Department of Ecology (Ecology) as Union Station and is assigned Facility Site ID No. 2060.

The summary of the Site background and results from four consecutive quarterly groundwater monitoring events are provided below.

SITE DESCRIPTION AND BACKGROUND

The Site consists of King County Parcel Nos. 8809700000, 5247801292, and 7669800004, and is developed with a commercial building, including office and retail use. The Site spans six city blocks and includes portions of the grade level, which is beneath elevated viaduct portions of South Jackson Street, South Airport Way, and 4th Avenue South.

The Cleanup Action Plan (CAP)¹ included a compliance monitoring program (CMP) for the Site in Table 3. The CMP and Prospective Purchaser Consent Decree (PPCD) No. 97-2-18963-5 SEA recorded for the Site establish requirements for periodic groundwater

¹ Landau Associates, Inc. 1997. *Cleanup Action Plan, Union Station Property, Seattle, Washington*. Prepared for Union Station Associates, LLC and Marten & Brown, LLP. July 28.



monitoring. The CMP has been implemented as presented in Table 3 of the CAP since execution of the PPCD. Groundwater monitoring commenced in 1999. The monitoring frequency was reduced to once every 5 years in 2005 as detailed in the Certification of Completion.²

Constituents of concern (COCs), specifically benzene and arsenic, have been consistently detected at concentrations exceeding the site-specific cleanup levels established for the Site in the CAP at select monitoring wells since groundwater monitoring commenced in 1999. Overall, the concentrations of COCs have remained similar in magnitude and stable over two decades of compliance groundwater monitoring. Ecology's January 2010 Periodic Review concluded that the cleanup actions completed at the Site appear to be protective of human health, and that the environment (groundwater) is being monitored and is slowly remediating as expected. The 2010 Periodic Review further concluded that the cleanup action was determined to comply with cleanup standards despite exceedances in soil at the standard points of compliance based on the long-term integrity of the containment system and the Restrictive Covenant in place for the Union Station Property. These conclusions were based in part on statistical parameters including calculation of Upper Confidence Limits and screening levels calculated based on background concentrations.

Ecology's April 2021 Periodic Review demonstrated a change in Ecology's opinion regarding the cleanup action's protection of groundwater and marine surface water located downgradient of the Property. The change was based on Ecology's opinion that area background concentrations are not allowed to be used for compliance purposes and that rather, the cleanup levels outlined in the CAP should be used for evaluating compliance with cleanup standards for groundwater. Ecology requested further actions at the Site in the 2021 Periodic Review.

Farallon, on behalf of USA, issued a response to Ecology in regard to the 2021 Periodic Review.³ Following a meeting between Ecology and USA regarding the Site, Farallon submitted a Groundwater Monitoring Work Plan⁴ (Work Plan) to perform quarterly groundwater monitoring at the Site for one year.

² Washington State Department of Ecology. 2005. Letter Regarding Union Station Purchaser Consent Decree No. 97-2-18936-5SEA – Certification of Completion. From David South. To Kristy Hendrickson, Landau Associates. January 20.

³ Farallon. 2022. *Response to Ecology Comments on Periodic Review*. March 28.

⁴ Farallon. *Groundwater Monitoring Work Plan, Union Station Property*. April 9.



This letter report includes a description of the field activities conducted during the four quarterly groundwater monitoring events performed from April 2024 to February 2025 and a summary of the analytical results.

GROUNDWATER MONITORING ACTIVITIES

Four quarterly groundwater monitoring events were conducted on March 29, August 27, and November 25, 2024, and February 24, 2025. The groundwater monitoring events included measuring depth to groundwater and collecting groundwater samples from monitoring wells MW-101R, MW-102R, MW-104, MW-105, MW-107R, MW-108R, B-4R, and B-6R. In addition, depth to groundwater was measured in accessible down-gradient monitoring wells MW-16D (Ecology well tag number BCS 199) and MW-21 (Ecology well tag number BKP 479), which are not part of the monitoring well network identified by the PPCD.

Depth to water measurements, sample collection, and sample analysis were conducted per the Work Plan. Groundwater sampling was conducted at monitoring wells MW-101R, MW-102R, MW-104, MW-105, MW-107R, MW-108R, B-4R, and B-6R.

The monitoring wells were purged at a low-flow rate until the water quality parameters stabilized in accordance with U.S. Environmental Protection Agency (EPA) low-flow (minimal drawdown) groundwater sampling procedures. The water quality parameters monitored included temperature, pH, dissolved oxygen, oxidation-reduction potential, turbidity, and specific conductance. Samples collected for analysis of dissolved arsenic by EPA Method 6020B were field filtered using a 0.45-micron filter and placed into a laboratory-prepared sample container preserved with nitric acid and labeled as field filtered for analysis of dissolved arsenic. Samples collected for analysis of total arsenic by EPA Method 6020B were placed directly into a laboratory-prepared sample container preserved with nitric acid and labeled for analysis of total arsenic. Additional sample volume was collected in an unpreserved laboratory-prepared sample container for laboratory filtration prior to analysis for dissolved arsenic, as needed.

The groundwater sample containers were placed on ice in a cooler and transported by a courier to Apex Laboratories, Inc. of Tigard, Oregon (Apex Laboratories) under standard chain-of-custody protocols for analysis of the following COCs:

- Diesel-range organics (DRO) and oil-range organics (ORO) by NWTPH-Dx;
- Gasoline-range organics (GRO) by NWTPH-Gx;



- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270E;
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) by EPA Method 8270E/SIM;
- Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260D with speciation of xylenes;
- Total and dissolved arsenic by EPA Method 6020B/200.8;
- Total dissolved solids by Standard Method 2540C;
- Total suspended solids by Standard Method 2540D;
- Methane by RSK 175 Method;
- Alkalinity by Standard Method 2320B; and
- Nitrate and sulfate by EPA Method 300 Series.

The majority of groundwater samples collected during the quarterly monitoring events were analyzed for dissolved arsenic from field-filtered containers. Select groundwater samples were also analyzed for dissolved arsenic following laboratory filtration. Laboratory filtration was performed using a vacuum applied 0.45-micron filter.

Purge water generated from the groundwater monitoring event was stored in a 55-gallon steel drum on the Site pending characterization and disposal.

RESULTS

Synoptic depth-to-groundwater measurements from the monitoring wells at the Site and corresponding calculated groundwater elevations are provided in Table 1 and on Figure 2. The interpreted groundwater flow direction of the shallow groundwater-bearing zone within the fill layer is to the west to northwest, consistent with regional groundwater flow west toward Elliot Bay.

Laboratory analytical results for analysis of Site COCs are presented in Tables 2 through 4 and on Figure 3, and laboratory reports are provided in Attachment A. Overall, the concentrations of COCs have remained similar in magnitude over two decades as demonstrated by groundwater monitoring events conducted between 2001 and 2025. Relevant results include the following:

- GRO was detected at a concentration exceeding the groundwater screening level protective of marine surface water aquatic receptors of 1,700 micrograms per liter



(µg/L) at MW-101R during all four quarterly events and at MW-107R in November 2024 (Table 2). All GRO detections throughout the four quarters of monitoring were flagged by the laboratory due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported. The CAP and Consent Decree did not establish Site-Specific cleanup levels for petroleum hydrocarbons. The highest detected concentration of GRO was 4,660 µg/L at MW-101R in August 2024 (Table 2).

- DRO was detected at a concentration exceeding the groundwater screening level protective of marine surface water aquatic receptors at MW-101R in August 2024. The detection was flagged by the laboratory due to the chromatographic pattern not resembling the fuel standard used for quantitation (Table 2).
- A Senior Chemist at Apex Laboratories indicated that detected concentrations of GRO, DRO, and ORO are due to the presence of one or more nonpetroleum-based materials. The material impacting the groundwater is characteristic of a pyrogenic-based material such as coal tar, MGP waste, or similar materials.
- Benzene was detected at a concentration exceeding the Site-specific groundwater cleanup level of 71 µg/L and/or exceeding the screening level protective of marine surface water aquatic receptors of 23 µg/L at MW-101R in August 2024 event and at MW-105 in April and August 2024 and February 2025 (Table 2). The highest detected concentration of benzene was 169.0 µg/L at MW-105 on February 24, 2025 (Table 2).
- GRO, DRO, and benzene were detected at concentrations less than Site-specific cleanup levels, the groundwater screening level protective of marine surface water aquatic receptors, and/or reported nondetect at laboratory reporting limits in monitoring wells located on the North Lot Site (Facility Site ID No. 5378137) located to the west of the Union Station Property (North Lot Site) during quarterly and semi-annual groundwater monitoring performed from 2017 to 2020. Monitoring wells on the North Lot Site are located downgradient of Site monitoring wells MW-101R and MW-108R. The Annual Groundwater and Indoor Vapor Monitoring Report for the North Lot Site dated March 27, 2020 is presented in Attachment B. Figure 2 of the report, which presents groundwater elevation contours and flow direction, has been annotated in Attachment B to convert reported well casing and groundwater elevations to the City of Seattle vertical datum for direct comparison with groundwater elevations reported for the Union Station Site.



- GRO, DRO, and benzene have not been detected at concentrations exceeding Site-Specific cleanup levels and/or groundwater screening levels protective of marine surface water aquatic receptors in downgradient compliance monitoring well MW-104 since commencement of compliance monitoring at the Site in 1999 (Figure 3; Table 2).
- Benzo(b)fluoranthene and benzo(a)pyrene were detected at concentrations exceeding the Site-specific cleanup levels for groundwater at MW-101R in April 2024 (Table 3). Exceedances of the Site-specific cleanup level for acenaphthene in groundwater were observed at MW-101R in August 2024 and February 2025. Exceedances were less than two times the Site-specific cleanup level during each occurrence.
- Concentrations of total cPAHs, as calculated by toxicity equivalency methodology presented in Chapter 173-340-708(8) of the Washington Administrative Code, at the North Lot Site did not exceed Site-specific cleanup levels for the Union Station Site for individual cPAHs during quarterly and semi-annual groundwater monitoring performed from 2017 to 2020. Review of available laboratory reports for the North Lot Site indicates that individual cPAHs, including benzo(b)fluoranthene and benzo(a)pyrene, were not detected at concentrations exceeding Site-specific cleanup levels for the Union Station Site.
- Dissolved arsenic was detected at concentrations exceeding the Puget Sound background concentration of 8 µg/L and Site-specific groundwater cleanup level of 4 µg/L in one off-Property and upgradient well, B-6R (Figure 3). Dissolved arsenic was detected at concentrations exceeding the Site-specific groundwater cleanup level in groundwater samples collected from monitoring wells B-4R, MW-101R, MW-105, and MW-107R during various monitoring events, but did not exceed the Puget Sound background concentration. The highest concentration of dissolved arsenic was 22.30 µg/L in the groundwater sample collected from B-6R during the April 29, 2024 sampling event. No petroleum impacts have been observed at B-6R. The lack of collocated arsenic and petroleum constituents at B-6R supports the conclusion that arsenic in groundwater is the result of background concentrations and/or up-gradient sources (Table 4).
- Dissolved arsenic was not detected above the background concentration in any monitoring wells located on the North Lot Site (Facility Site ID No. 5378137) located to the west of the Union Station Property during quarterly and semi-annual



groundwater monitoring performed from 2017 to 2020. These monitoring wells are located downgradient of Site monitoring wells MW-101R and MW-108R.

- Dissolved arsenic was not detected above the background concentration in Site monitoring wells MW-101R, MW-102R, MW-104, MW-105, MW-107R, and MW-108R located along the western boundary of the Union Station Property down-gradient of monitoring well B-6R (Table 4).
- Elevated concentrations of total suspended solids and total dissolved solids were detected in groundwater samples collected at the Site over the four quarters of monitoring, particularly at monitoring wells B-6R, MW-101R, MW-102R, MW-105, MW-017R, and MW-108R. COCs can sorb onto suspended soil particles, resulting in concentrations reported for turbid groundwater samples that typically are biased high.
- Groundwater geochemistry within the source area at the Site is anaerobic based on field parameters measured during groundwater sampling events (Tables 5 and 6). These parameters include negative to low oxidation-reduction potential measurements, presence of methane, depletion of oxygen and nitrate, and presence of the reduced forms of iron and manganese (iron (II) [ferrous iron] and manganese (II)).
- Oxygen and nitrate, the preferred electron acceptors for biodegradation of petroleum products, are depleted within the source area at the Site based on review of collective monitored natural attenuation (MNA) parameters. Sulfate, a secondary electron acceptor required for anerobic biodegradation, is also depleted within the source area (Table 6).
- Limited biodegradation of COPCs may be occurring based on presence of ferrous iron and manganese (II), which result from microbial reduction of the oxidized forms of iron and manganese (ferric iron [iron (III)] and manganese (IV)). Ferric iron and manganese (IV) are electron acceptors used by petroleum-degrading bacteria.
- Based on the stable COPC concentration trends observed over the last 26 years of groundwater monitoring performed at the Site, natural attenuation of COPCs in the subsurface is occurring at a very slow rate, which is typical in anerobic environments where electron acceptors are depleted.



CLOSING

Benzene, total arsenic, and dissolved arsenic exceeded site-specific cleanup levels and/or background concentrations at select locations during various groundwater monitoring events. The magnitude and distribution of these exceedances have shown stable or decreasing trends since the commencement of monitoring in 1999. Concentration versus time plots for benzene and arsenic in groundwater at the Site are presented on Figures 4 and 5.

Concentrations of COCs in groundwater at the western boundary of the Union Station Property, established as the point of compliance for groundwater at the Site in the CAP, are less than the Site-specific cleanup levels with the exception of benzene and arsenic at MW-101R and MW-105, and select PAHs at MW-101R. Arsenic did not exceed background concentrations during the last four quarters at MW-101R and MW-105. These COCs are in compliance with Site-specific groundwater cleanup levels at downgradient wells MW-104 on the Union Station Property and wells located on the North Lot Site to the west. Based on these data, there is no evidence to suggest that COCs in groundwater are migrating off of the Union Station Property beyond the point of compliance or impacting downgradient properties.

SCHEDULE

Completion of the February 2025 groundwater monitoring event marks completion of four consecutive quarters of groundwater monitoring requested by Ecology in the 2021 Periodic Review. It is expected that following Ecology's review of the quarterly groundwater data, groundwater monitoring at the Site will resume at a frequency of every 5 years. As such, the next groundwater monitoring event at the Site would be scheduled for February 2030.



Please contact either of the undersigned at (425) 295-0800 if you have questions or need additional information.

Sincerely,

Farallon Consulting, L.L.C.

James Welles, L.H.G.
Senior Hydrogeologist



James Welles

Suzy Stumpf, P.E.
Principal Engineer



Attachments: Figure 1, *Site Plan*

Figure 2, *Groundwater Contour Map – February 24, 2025*

Figure 3, *Groundwater Analytical Results*

Figure 4, *Benzene Concentrations in Groundwater versus Time*

Figure 5, *Arsenic Concentrations in Groundwater versus Time*

Table 1, *Summary of Groundwater Elevation Data*

Table 2, *Summary of Groundwater Analytical Results for TPH and BTEX*

Table 3, *Summary of Groundwater Analytical Results for PAHs*

Table 4, *Summary of Groundwater Analytical Results for Arsenic*

Table 5, *Summary of Groundwater Field Parameters*

Table 6, *Summary of Groundwater Monitored Natural Attenuation Parameters*

Attachment A, *Laboratory Analytical Results and Gas Chromatograms*

Attachment B, *Annotated Annual Groundwater and Indoor Vapor Monitoring Report – North Lot site – March 27, 2020*

cc: Coleen Spratt, Union Station Associates, LLC
Kevin Daniels, Union Station Associates, LLC
Bradley Marten, Marten Law
Emma Lautanen, Marten Law

JW/CvS/SES:cm



LIMITATIONS

The conclusions contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained herein are subject to the following inherent limitations:

- **Accuracy of Information.** Farallon reviewed certain information used in this report/assessment from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy. Should the information upon which Farallon relied prove to be inaccurate, Farallon may revise its conclusions, opinions, and/or recommendations.
- **Reconnaissance and/or Characterization.** Farallon performed a reconnaissance and/or characterization of the Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions. Contamination may exist in other areas of the Site that were not investigated or were inaccessible. Site activities beyond Farallon's control could change at any time after the completion of this report/assessment.

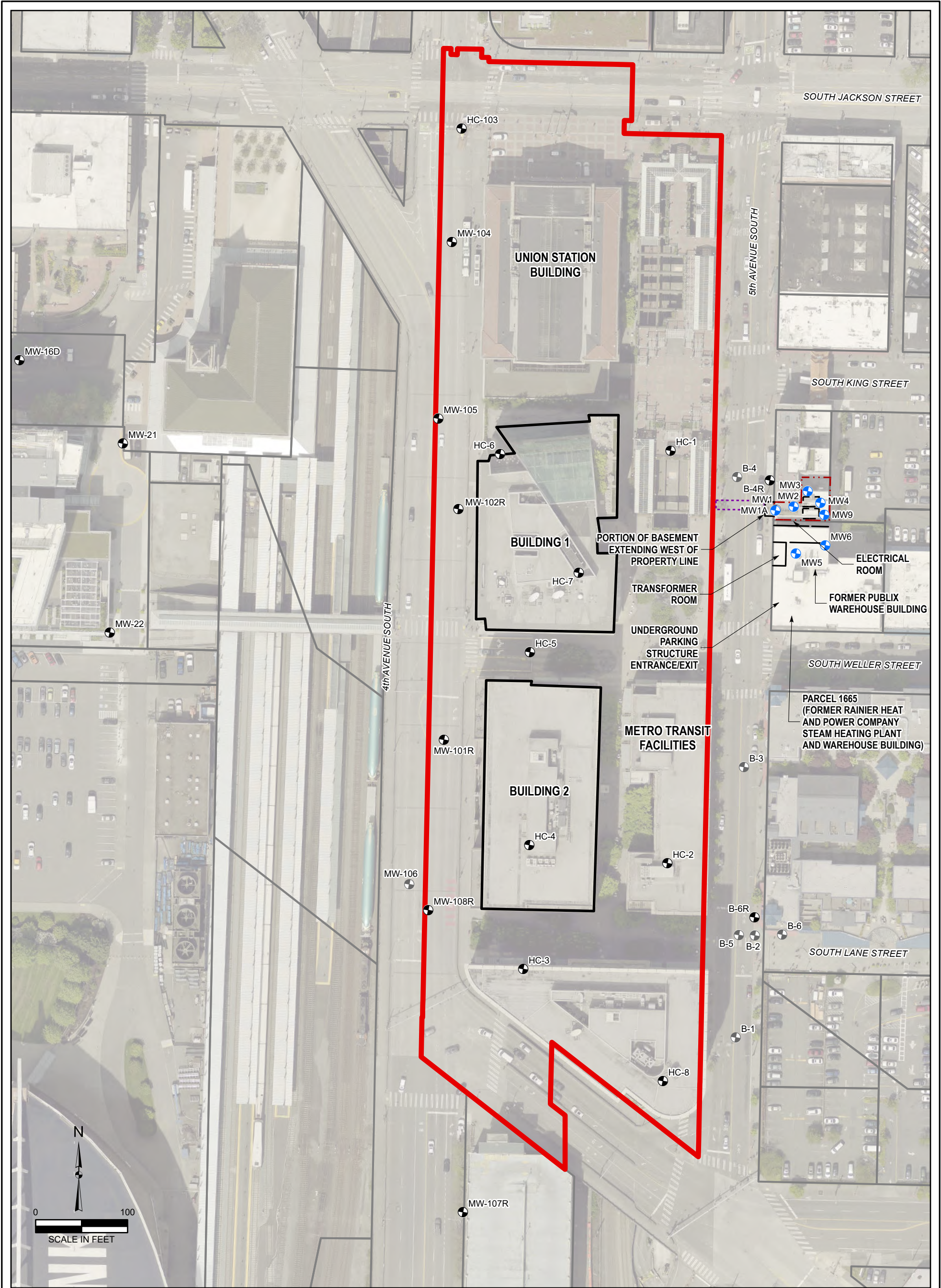
Farallon does not guarantee that the Site is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions are as of the date of the report.

This report/assessment has been prepared in accordance with the contract for services between Farallon and Union Station Associates, LLC. No other warranties, representations, or certifications are made.

FIGURES

2024-2025 GROUNDWATER
MONITORING ANNUAL REPORT
Union Station Property
411 South Jackson Street
Seattle, Washington

Farallon PN: 2644-001



LEGEND

ABANDONED MONITORING WELL

MONITORING WELL

MONITORING WELL (RGI)

BUILDING FEATURE

UNDERGROUND TUNNEL

BUILDING OUTLINE

AREA OF INVESTIGATION (SUB-BASEMENT)

CLOSED IN PLACE UST

UNION STATION PROPERTY KING COUNTY PARCEL BOUNDARY/ EXTENT OF BELOW GRADE FEATURES

KING COUNTY PARCEL BOUNDARY

RG1 = RILEY GROUP INCORPORATED

UST = UNDERGROUND STORAGE TANK

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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Portland | Baker City

California
Oakland | Irvine

FIGURE 1
SITE PLAN
UNION STATION PROPERTY
SEATTLE, WASHINGTON

FARALLON PN: 2644-001

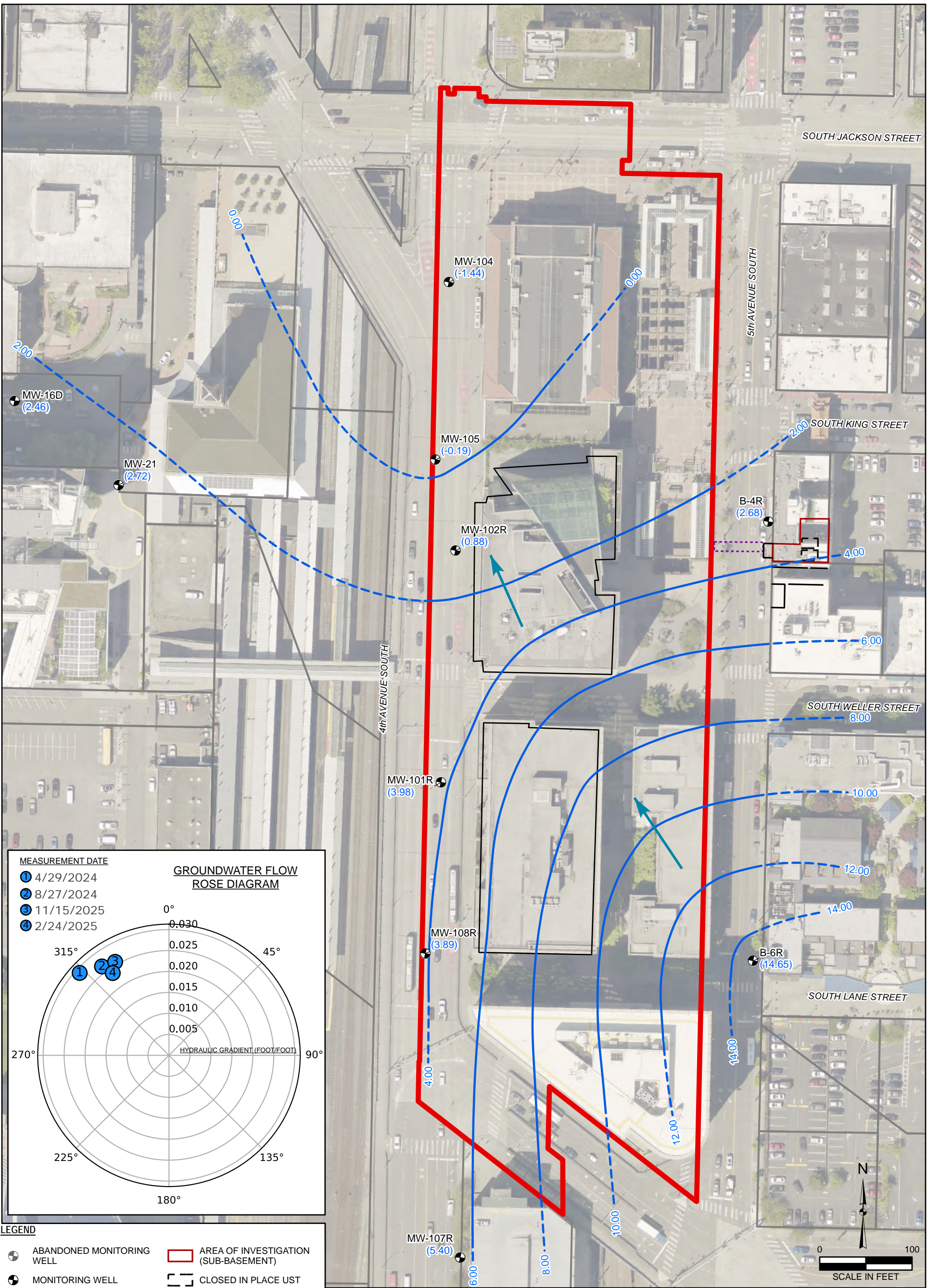
Drawn By: jjones

Checked By: JW

Date: 4/21/2025

Disc Reference:

Path: Q:\Projects\2644 Union Station\001 505 Union Station\Mapfiles\004\IGWS_2025.02\Figure-01_SitePlan.aprx



(14.28) GROUNDWATER ELEVATION IN FEET RELATIVE TO SEATTLE DATUM, FEBRUARY 24, 2025

14.00 - GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

RGI = RILEY GROUP INCORPORATED
UST = UNDERGROUND STORAGE TANK



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Drawn By: jjones

Checked By: CvS

Washington
Bellevue | Bellingham | Seattle

Oregon
Portland | Baker City

California
Oakland | Irvine

Date: 4/21/2025

Disc Reference:

Path: Q:\Projects\2644 Union Station\001 505 Union Station\Mapfiles\004\GWS_2025.02\Figure-02_GW-Contours_2025.02.aprx

NOTES:
GROUNDWATER ANALYTICAL RESULTS REPORTED AS:
DATE | DRO | GRO | BENZENE | DISSOLVED ARSENIC
GROUNDWATER ANALYTICAL RESULTS IN MICROGRAMS PER LITER.
APRIL 2024 DRO RESULTS ARE FROM SAMPLES TREATED WITH SILICA GEL CLEANUP PRIOR TO ANALYSIS.
AUGUST 2024 DRO RESULTS FOR MW-101R AND MW-107R ARE FROM SAMPLES TREATED WITH SILICA GEL CLEANUP PRIOR TO ANALYSIS.
REMAINDER OF AUGUST 2024 DRO RESULTS ARE FROM SAMPLES NOT TREATED WITH SILICA GEL CLEANUP PRIOR TO ANALYSIS.
BOLD = DENOTES CONCENTRATIONS EXCEEDING SITE-SPECIFIC CLEANUP LEVELS
< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LISTED REPORTING LIMIT
--- = DENOTES SAMPLE NOT ANALYZED
DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS
GRO = TPH AS GASOLINE-RANGE ORGANICS
RGI = RILEY GROUP INCORPORATED
UST = UNDERGROUND STORAGE TANK



- LEGEND**
- ABANDONED MONITORING WELL
 - MONITORING WELL
 - MONITORING WELL (RGI)
 - BUILDING FEATURE
 - UNDERGROUND TUNNEL
 - BUILDING OUTLINE
 - AREA OF INVESTIGATION (SUB-BASEMENT)
 - CLOSED IN PLACE UST
 - UNION STATION PROPERTY KING COUNTY PARCEL BOUNDARY/ EXTENT OF BELOW GRADE FEATURES
 - KING COUNTY PARCEL BOUNDARY

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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FIGURE 3

GROUNDWATER ANALYTICAL RESULTS
UNION STATION PROPERTY
SEATTLE, WASHINGTON

FARALLON PN: 2644-001

Drawn By: jjones

Checked By: JW

Date: 4/22/2025

Disc Reference:

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Figure 4. Benzene Concentration Versus Time
Union Station, Seattle, Washington

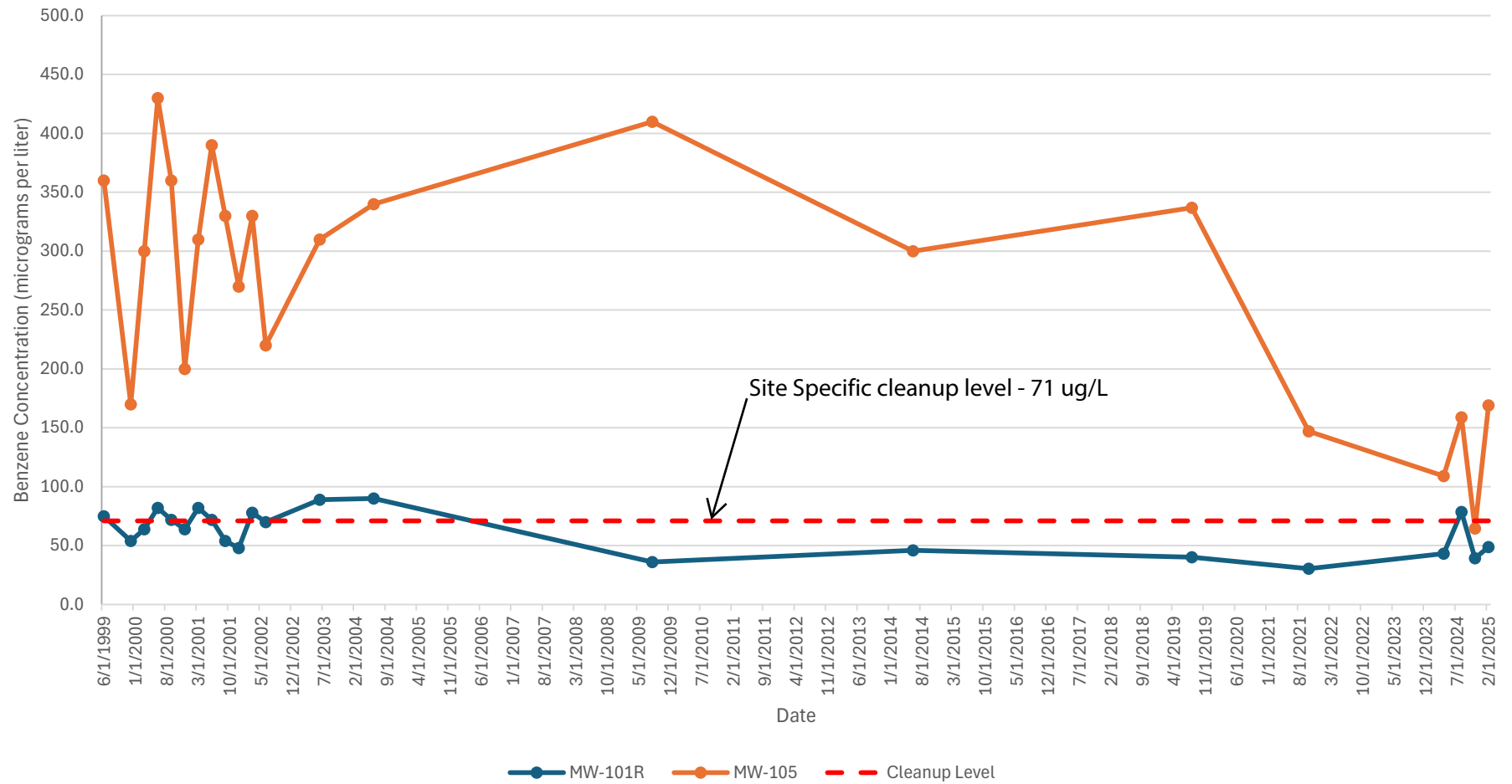
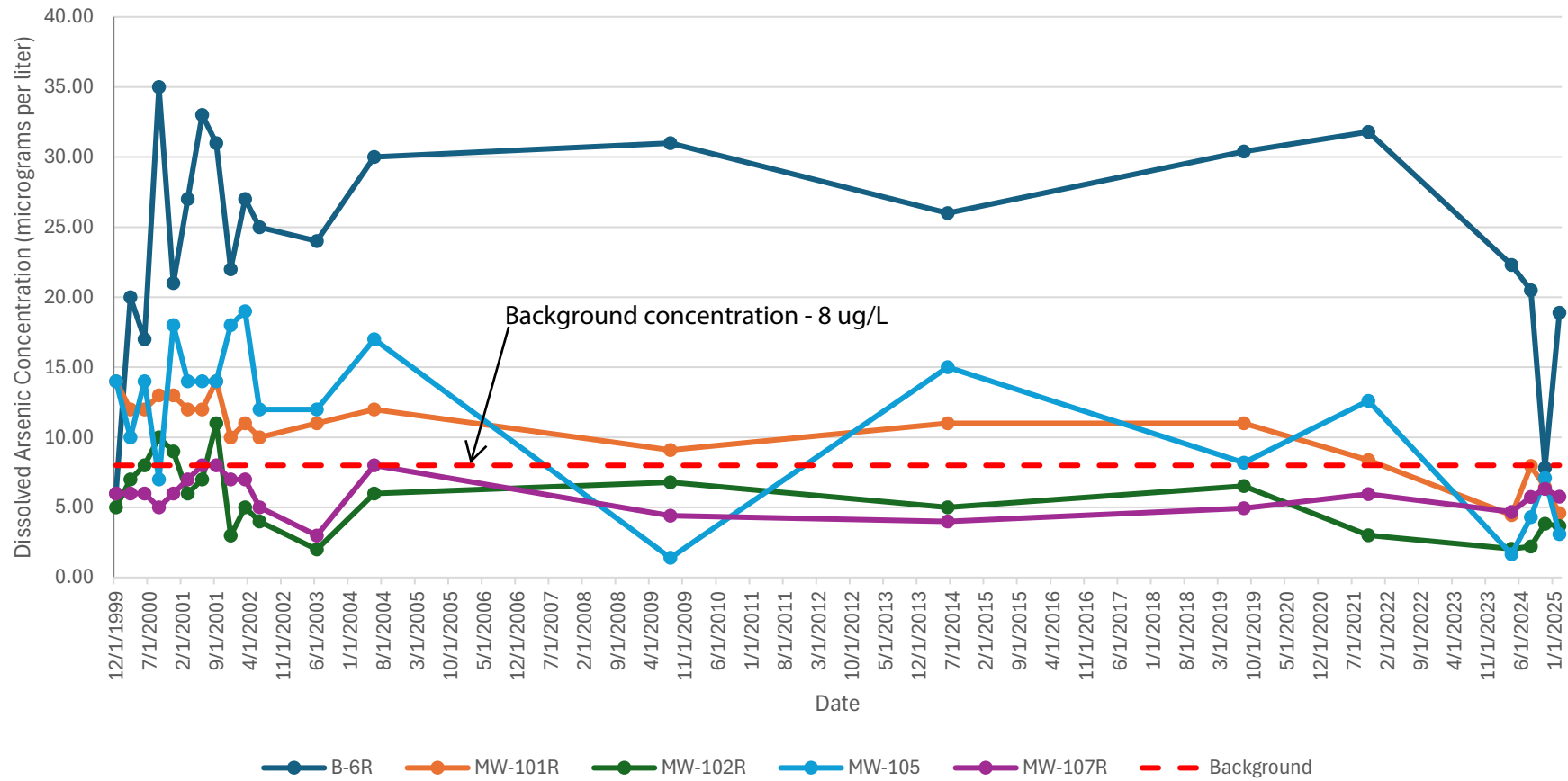


Figure 5. Dissolved Arsenic Concentration Versus Time
Union Station, Seattle, Washington



TABLES

**2024-2025 GROUNDWATER
MONITORING ANNUAL REPORT**
Union Station Property
411 South Jackson Street
Seattle, Washington

Farallon PN: 2644-001

Table 1
Summary of Groundwater Elevation Data
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Well Location	Sampled By	Total Well Depth (feet bgs) ¹	Screened Interval Depth (feet bgs) ¹	Screened Interval Elevation (feet Seattle Datum) ¹	Top of Casing Elevation (feet Seattle Datum) ²	Monitoring Date	Depth to Water (feet) ³	Water Level Elevation (feet Seattle Datum) ²
B-4R	Landau	40.61	31.0 to 41.0	5.74 to -4.26	36.35	6/8/2004	38.96	-2.61
	Landau					9/14/2009	35.50	0.85
	Landau					6/17/2014	35.58	0.77
	Landau					8/20/2019	35.41	0.94
	Farallon					10/7/2021	34.42	1.93
	Farallon					4/29/2024	33.35	3.00
	Farallon					8/28/2024	34.18	2.17
	Farallon					11/25/2024	33.83	2.52
	Farallon					2/24/2025	33.67	2.68
B-6R	Landau	43.98	23.98 to 43.98	10.4 to -9.6	34.38	6/8/2004	22.49	11.89
	Landau					9/14/2009	22.63	11.75
	Landau					6/17/2014	21.94	12.44
	Landau					8/20/2019	21.49	12.89
	Farallon					10/7/2021	20.71	13.67
	Farallon					4/29/2024	20.20	14.18
	Farallon					8/28/2024	20.57	13.81
	Farallon					11/25/2024	20.10	14.28
	Farallon					2/24/2025	19.73	14.65
MW-101R	Landau	16.26	6.97 to 16.97	2.8 to -7.2	9.06	6/8/2004	6.29	2.77
	Landau					9/14/2009	6.63	2.43
	Landau					6/17/2014	6.03	3.03
	Landau					8/20/2019	6.14	2.92
	Farallon					10/7/2021	6.04	3.02
	Farallon					4/29/2024	5.28	3.78
	Farallon					8/28/2024	5.53	3.53
	Farallon					11/25/2024	5.29	3.77
	Farallon					2/24/2025	5.08	3.98
MW-102R	Landau	22.3	13.67 to 23.67	-3.7 to -13.7	8.60	6/8/2004	9.75	-1.15
	Landau					9/14/2009	9.99	-1.39
	Landau					6/17/2014	9.29	-0.69
	Landau					8/20/2019	9.43	-0.83
	Farallon					10/7/2021	9.33	-0.73
	Farallon					4/29/2024	8.93	-0.33
	Farallon					8/28/2024	8.70	-0.10
	Farallon					11/25/2024	8.42	0.18
	Farallon					2/24/2025	7.81	0.79

Table 1
Summary of Groundwater Elevation Data
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Well Location	Sampled By	Total Well Depth (feet bgs) ¹	Screened Interval Depth (feet bgs) ¹	Screened Interval Elevation (feet Seattle Datum) ¹	Top of Casing Elevation (feet Seattle Datum) ²	Monitoring Date	Depth to Water (feet) ³	Water Level Elevation (feet Seattle Datum) ²
HC-103	Landau	13.49	4.8 to 14.8	5.5 to -4.5	8.99	6/8/2004	7.45	1.54
	Landau					9/14/2009	8.00	0.99
	Landau					6/17/2014	8.13	0.86
	Landau					8/20/2019	8.37	0.62
	Farallon					10/7/2021	8.16	0.83
MW-104	Landau	19.69	10.75 to 20.75	-0.1 to -10.1	9.59	6/8/2004	10.88	-1.29
	Landau					9/14/2009	11.20	-1.61
	Landau					6/17/2014	11.12	-1.53
	Landau					8/20/2019	11.41	-1.82
	Farallon					10/7/2021	11.14	-1.55
	Farallon					4/29/2024	11.19	-1.60
	Farallon					8/28/2024	11.06	-1.47
	Farallon					11/25/2024	10.97	-1.38
	Farallon					2/24/2025	11.03	-1.44
MW-105	Landau	22.92	14.57 to 24.07	-4.5 to -14.0	8.92	6/8/2004	9.75	-0.83
	Landau					9/14/2009	9.80	-0.88
	Landau					6/17/2014	9.24	-0.32
	Landau					8/20/2019	9.58	-0.66
	Farallon					10/7/2021	9.95	-1.03
	Farallon					4/29/2024	9.33	-0.41
	Farallon					8/28/2024	9.46	-0.54
	Farallon					11/25/2024	9.19	-0.27
	Farallon					2/24/2025	9.11	-0.19
MW-107R	Landau	19.43	14.49 to 19.99	-1.5 to -7.0	12.43	6/8/2004	8.27	4.16
	Landau					9/14/2009	8.65	3.78
	Landau					6/17/2014	8.78	3.65
	Landau					8/20/2019	8.24	4.19
	Farallon					10/7/2021	8.18	4.25
	Farallon					4/29/2024	7.35	5.08
	Farallon					8/28/2024	7.86	4.57
	Farallon					11/25/2024	7.29	5.14
	Farallon					2/24/2025	7.03	5.40

Table 1
Summary of Groundwater Elevation Data
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Well Location	Sampled By	Total Well Depth (feet bgs) ¹	Screened Interval Depth (feet bgs) ¹	Screened Interval Elevation (feet Seattle Datum) ¹	Top of Casing Elevation (feet Seattle Datum) ²	Monitoring Date	Depth to Water (feet) ³	Water Level Elevation (feet Seattle Datum) ²
MW-108R	Landau	22.18	12.96 to 22.96	-3.4 to -13.4	8.78	6/8/2004	4.60	4.18
	Landau					9/14/2009	4.65	4.13
	Landau					6/17/2014	5.21	3.57
	Landau					8/20/2019	5.19	3.59
	Farallon					10/7/2021	5.91	2.87
	Farallon					4/29/2024	3.82	4.96
	Farallon					8/28/2024	3.72	5.06
	Farallon					11/25/2024	4.57	4.21
	Farallon					2/24/2025	4.89	3.89
North Lot Development								
MW-16D	Landau	23	13.00 to 23.00	4.6 to -5.4 ⁴	12.18 ⁴	1/21/2020	9.81	2.37 ⁴
	Farallon					4/29/2024	9.86	2.32
	Farallon					8/28/2024	9.83	2.35
	Farallon					11/25/2024	9.61	2.57
	Farallon					2/24/2025	9.72	2.46
MW-18D	Landau	---	---	---	11.75 ⁴	1/21/2020	---	---
MW-19	Landau	---	---	---	12.07 ⁴	1/21/2020	5.64	6.43 ⁴
MW-20	Landau	---	---	---	12.09 ⁴	1/21/2020	6.68	5.41 ⁴
MW-21	Landau	14.9	5.00 to 15.00	12.17 to 2.17 ⁴	11.75 ⁴	1/21/2020	9.15	2.6 ⁴
	Farallon					4/29/2024	9.17	2.58
	Farallon					8/28/2024	9.12	2.63
	Farallon					11/25/2024	8.99	2.76
	Farallon					2/24/2025	9.03	2.72
MW-22	Landau		---	---	11.72 ⁴	1/21/2020	5.13	6.59 ⁴

Notes:

--- denotes information unknown

¹ In feet below ground surface.

² In feet referenced to City of Seattle Datum, unless otherwise noted.

³ In feet below top of well casing.

⁴ Elevations have been corrected by -5.42 feet from the mean sea level datum to the City of Seattle datum.

bgs = below ground surface

Farallon = Farallon Consulting, L.L.C.

Landau = Landau Associates, Inc.

NAVD88 = North American Vertical Datum of 1988

Table 2
Summary of Groundwater Analytical Results for TPH and BTEX
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter)										
				NWTPH-Dx ¹		NWTPH-Dx-SG ¹		GRO ²	Benzene ³	Toluene ³	Ethylbenzene ³	m,p-Xylenes ³	o-Xylene ³	Total Xylenes ³
				DRO	ORO	DRO	ORO							
B-4	Landau	6/16/1999	AK50J	2,300	< 500	---	---	4,500	260 J	3.8	310 J	8.2	11	---
	Landau	12/16/1999	BD02I	2,900	< 500	---	---	3,100 J	140	< 10	200	160	< 10	---
	Landau	3/22/2000	BK98J	3,600	< 500	---	---	6,200	150	< 10	220	< 10	< 10	---
	Landau	6/14/2000	BT43J	7,700	1,300	---	---	9,000	94	< 10	160	130	< 10	---
	Landau	9/27/2000	CF72G	4,700	1,300	---	---	4,800	130	< 10	200 J	< 10	< 10	---
	Landau	12/20/2000	CP44A	5,900	1,100	---	---	6,000	140	< 5.0	220	< 5.0	6.7	---
	Landau	3/14/2001	CV96H	4,200	< 500	---	---	6,000	120	< 5.0	200	5.3	6	---
	Landau	6/22/2001	DH51I	6,400 J	1,200	---	---	5,200	130	< 5.0	220	< 5.0	5.4	---
	Landau	9/26/2001	DQ61G	8,000 J	2,900 J	---	---	6,500	140	< 5.0	230	< 5.0	6	---
	Landau	12/19/2001	DY69A	2,600	570	---	---	6,000 J	130	< 5.0	190	< 5.0	< 5.0	---
	Landau	3/20/2002	EE79H	6,100	< 2,500	---	---	5,700	150	< 5.0	230	< 5.0	5.6	---
	Landau	6/19/2002	EM41H	3,800	620	---	---	5,400	130	< 5.0	190	< 5.0	< 5.0	---
	Landau	6/25/2003	FP47G/P	15,000	6,800	---	---	3,300	130	< 5.0	160	< 5.0	< 5.0	---
	Landau	6/9/2004	GS18I	5,100	2,000	---	---	1,800	130	< 5.0	110	< 5.0	< 5.0	---
B-4R	Landau	8/25/2009	PL85B	< 250	< 500	---	---	280	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	06/19/2014	YO99D	< 100	< 200	---	---	< 250 J	< 1.0 J	< 1.0 J	< 1.0 J	< 2.0 J	< 1.0 J	---
	Landau	8/20/2019	19H0298	1,200 J	780 J	---	---	204	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.60
	Farallon	4/29/2024	B-4R-20240429	178 F-13	< 160	< 80.0	< 160	< 100	< 0.200	< 1.00	< 0.500	---	---	< 1.50
	Farallon	8/27/2024	B-4R-20240827	276 F-13	< 152	---	---	105 F-03	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50
	Farallon	11/25/2024	B-4R-20241125	129 F-13	< 152	---	---	157	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50
	Farallon	2/25/2025	B-4R-20250225	184 F-13	< 160	---	---	121 F-03	< 0.200	< 1.00	0.320 J	< 1.00	< 0.500	< 1.50
B-6	Landau	6/16/1999	AK50H	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
B-6R	Landau	12/16/1999	BD02H	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	3/22/2000	BK98H	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	3/22/2000*	BK98I	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/14/2000	BT43I	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	9/27/2000	CF72F	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	12/20/2000	CP44H	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	3/14/2001	CV96I	< 250 J	< 500 J	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/22/2001	DH51D	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	9/26/2001	DQ61H	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	12/19/2001	DY69B	< 250	< 500	---	---	< 250 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	3/20/2002	EE79I	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	3/20/2002*	EE79G	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/19/2002	EM41I	250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/25/2003	FP47H/Q	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/9/2004	GS18J	< 250	< 500	---	---	< 250	< 0.2	< 0.2	< 0.2	< 0.4	0.2	---
	Landau	8/25/2009	PL85A	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	06/19/2014	YO99E	< 100	< 200	---	---	< 250	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	---
	Landau	8/20/2019	19H0298	< 100	< 200	---	---	< 100	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.60
	Farallon	4/29/2024	B-6R-20240429	115 F-11	< 167	< 83.3	< 167	< 100	< 0.200	< 1.00	< 0.500	---	---	< 1.50
	Farallon	8/27/2024	B-6R-082724	83.8	< 150	---	---	< 100	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50
	Farallon	11/25/2024	B-6R-20241125	< 80.8	< 162	---	---	< 100	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50
	Farallon	2/24/2025	B-6R-20250224	83.6 F-13	< 162	---	---	< 100	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50
Site-Specific Cleanup Level for Groundwater ⁴				NE ⁵	NE ⁵	NE ⁵	NE ⁵	NE ⁵	71	485	276	NE	NE	NE
Marine Surface Water SL Protective of Aquatic Receptors ⁶				2,100		2,100		1,700	23	102	21	106		106

Table 2
Summary of Groundwater Analytical Results for TPH and BTEX
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter)										
				NWTPH-Dx ¹		NWTPH-Dx-SG ¹		GRO ²	Benzene ³	Toluene ³	Ethylbenzene ³	m,p-Xylenes ³	o-Xylene ³	Total Xylenes ³
				DRO	ORO	DRO	ORO							
MW-101R	Landau	6/16/1999	AK50A	2,200	< 500	---	---	5,200	75	16 J	160 J	55 J	33 J	---
	Landau	6/16/1999*	AK50B	2,600	< 500	---	---	4,500	87	23 J	280 J	93 J	54 J	---
	Landau	12/16/1999	BD02A	2,400	< 500	---	---	4,700	54	< 10	120	42	23	---
	Landau	3/22/2000	BK98G	3,500	< 500	---	---	6,200	64	12	210	61	33	---
	Landau	6/14/2000	BT43A	4,000	< 500	---	---	9,500	82	12	290	71	41	---
	Landau	9/27/2000	CF72H	3,000	< 1,000	---	---	5,700	72	< 10	240 J	56 J	23 J	---
	Landau	12/20/2000	CP44B	3,100	< 500	---	---	6,700	64	18	200	90	42	---
	Landau	3/14/2001	CV96A	3,500	< 500	---	---	6,000	82	11	250	64	36	---
	Landau	6/22/2001	DH51F	2,900	< 500	---	---	6,100	72	14	250 J	83 J	39 J	---
	Landau	6/22/2001*	DH51E	2,900	< 500	---	---	7,400	64	18	130 J	110 J	52 J	---
	Landau	9/26/2001	DQ61A	3,400	< 500	---	---	5,300	54	8.4	170	60	27	---
	Landau	12/19/2001	DY69C	2,400	< 500	---	---	6,300 J	48 J	< 5.0 J	130 J	46 J	18 J	---
	Landau	3/20/2002	EE79A	3,300	< 500	---	---	6,300	78	7.6	260	92	37	---
	Landau	6/19/2002	EM41A	4,200	< 500	---	---	5,400	70	5.7	250	46	23	---
	Landau	6/19/2002*	EM41B	3,800	< 500	---	---	5,400	69	5.5	240	43	22	---
	Landau	6/25/2003	FP47A/J	3,800	< 500	---	---	4,800	89	< 5.0	300	45	17	---
	Landau	6/25/2003*	FP47F/O	3,900	< 500	---	---	4,800	96	4.1	260	48	19	---
	Landau	6/9/2004	GS18F	2,700	< 500	---	---	4,100	90	5.5	210	38	17	---
	Landau	6/9/2004*	GS18G	2,600	< 500	---	---	4,100	92	6.0	230	43	19	---
	Landau	8/24/2009	PL72A	1,600	< 500	---	---	6,000	36	2.2	150	25	18 J	---
	Landau	8/24/2009*	PL72E	1,500	< 500	---	---	6,000	36	2.3	150	25	< 1.0 J	---
	Landau	06/18/2014	YO69E	1,500	< 200	---	---	7,400	46	5.9	200	42	34	---
	Landau	8/21/2019	19H0324	2,440	< 200	---	---	9,230	40.1	1.9	120	15	19	33.9
	Farallon	10/7/2021	MW-101R-20211007	2,710 PRES F-17	< 195 PRES	---	---	7,040 F-03	30.4	< 5.00	100	---	---	21.5
	Farallon	4/29/2024	MW-101R-20240429	1,660 F-13	< 150	771 F-17	< 150	3,830 F-03	43.2	< 2.00	85.3	---	---	19.0
	Farallon	8/27/2024	MW-101R-20240827	3,000 F-13	< 154	2,250 F-17	< 154	4,660 F-03	78.7	1.46	81.8	8.25	10.3	18.6
	Farallon	11/26/2024	MW-101R-20241126	1,730 F-13	< 158	---	---	3,360 F-03	39.3	< 1.00	18.0	2.60	2.69	5.29
	Farallon	2/24/2025	MW-101R-20250224	1,680 F-13	< 163	---	---	3,900 F-03	48.8	0.610 J	55.8	4.64	4.61	9.25
Site-Specific Cleanup Level for Groundwater ⁴				NE ⁵	NE ⁵	NE ⁵	NE ⁵	NE ⁵	71	485	276	NE	NE	NE
Marine Surface Water SL Protective of Aquatic Receptors ⁶				2,100		2,100		1,700	23	102	21	106		106

Table 2
Summary of Groundwater Analytical Results for TPH and BTEX
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter)											
				NWTPH-Dx ¹		NWTPH-Dx-SG ¹		GRO ²	Benzene ³	Toluene ³	Ethylbenzene ³	m,p-Xylenes ³	o-Xylene ³	Total Xylenes ³	
				DRO	ORO	DRO	ORO								
MW-102R	Landau	6/16/1999	AK50C	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	12/16/1999	BD02C	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	12/16/1999*	BD02B	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	3/22/2000	BK98D	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/14/2000	BT43B	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/14/2000*	BT43E	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	9/27/2000	CF72A	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	12/20/2000	CP44E	280	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	12/20/2000*	CP44I	310	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	3/14/2001	CV96B	320	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/22/2001	DH51B	320	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	9/26/2001	DQ61B	340	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	9/26/2001*	DQ61I	320	< 500	---	---	< 250 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	12/19/2001	DY69D	370	< 500	---	---	< 250 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	3/20/2002	EE79B	300	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/19/2002	EM41C	400	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/25/2003	FP47B/K	400	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/9/2004	GS18E	< 250	< 500	---	---	< 250	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.2	---
	Landau	8/24/2009	PL72B	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	06/18/2014	YO69D	< 100	< 200	---	---	< 250	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	---
	Landau	8/21/2019	19H0324	< 100	< 200	---	---	< 100	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.20	< 0.60
	Farallon	4/29/2024	MW-102R-20240429	208 F-11	< 160	< 80.0	< 160	< 100	< 0.200	< 1.00	< 0.500	---	---	< 1.50	< 1.50
	Farallon	8/27/2024	MW-102R-08272024	211 F-13	< 154	---	---	< 100	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50	< 1.50
	Farallon	11/25/2024	MW-102R-20241125	126 F-13	< 158	---	---	< 100	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50	< 1.50
	Farallon	2/24/2025	MW-102R-20250224	108 F-13	< 155	---	---	< 100	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50	< 1.50
Site-Specific Cleanup Level for Groundwater ⁴				NE ⁵	NE ⁵	NE ⁵	NE ⁵	NE ⁵	71	485	276	NE	NE	NE	
Marine Surface Water SL Protective of Aquatic Receptors ⁶				2,100		2,100		1,700	23	102	21	106		106	

Table 2
Summary of Groundwater Analytical Results for TPH and BTEX
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter)										
				NWTPH-Dx ¹		NWTPH-Dx-SG ¹		GRO ²	Benzene ³	Toluene ³	Ethylbenzene ³	m,p-Xylenes ³	o-Xylene ³	Total Xylenes ³
				DRO	ORO	DRO	ORO							
MW-104	Landau	6/16/1999	AK50E	420	< 500	---	---	320	7.0	2.1	5.2	6.0	4.5	---
	Landau	12/16/1999	BD02E	420	< 500	---	---	290	< 10	< 10	< 10	< 10	< 10	---
	Landau	3/22/2000	BK98B	520	< 500	---	---	320	< 10	< 10	< 10	< 10	< 10	---
	Landau	6/14/2000	BT43D	440	< 500	---	---	530	2.2	< 2.0	2.3	4.0	< 2.0	---
	Landau	9/27/2000	CF72C	500	< 500	---	---	290	1.4	< 1.0	1.2 J	2.4 J	< 1.0	---
	Landau	12/20/2000	CP44F	500	< 500	---	---	360	1.4	< 1.0	1.0	2.8	1.0 J	---
	Landau	3/14/2001	CV96C	560	< 500	---	---	370	1.9	< 1.0	1.2	3.1	1.2	---
	Landau	6/22/2001	DH51C	380	< 500	---	---	310	1.7	< 1.0	1.5	2.2	< 1.0	---
	Landau	9/26/2001	DQ61C	390	< 500	---	---	260	1.0	< 1.0	< 1.0	1.8	< 1.0	---
	Landau	12/19/2001	DY69E	470	< 500	---	---	260 J	1.6	< 1.0	< 1.0	1.9	< 1.0	---
	Landau	3/20/2002	EE79C	480	< 500	---	---	290	2.1	< 1.0	1.4	2.7	< 1.0	---
	Landau	6/19/2002	EM41D	360	< 500	---	---	< 250	1.1	< 1.0	< 1.0	1.9	< 1.0	---
	Landau	6/25/2003	FP47C/L	460	< 500	---	---	< 250	1.5	< 1.0	1.1	1.6	< 1.0	---
	Landau	6/9/2004	GS18B	260	< 500	---	---	< 250	0.7	< 0.2	0.6	1.5	< 0.2	---
	Landau	8/24/2009	PL72D	< 250	< 500	---	---	340	1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	06/18/2014	YO69B	150	< 200	---	---	320	1.5	< 1.0	< 1.0	< 2.0	< 1.0	---
	Landau	8/21/2019	19H0324	< 100	< 200	---	---	270	1.05	0.20	0.94	0.80	0.30	1.10
	Farallon	4/29/2024	MW-104-20240429	259 F-13	< 168	95.1 F-12	< 168	< 100	< 0.200	< 1.00	< 0.500	---	---	< 1.50
	Farallon	8/27/2024	MW-104-082724	145 F-13	< 152	---	---	< 100	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50
	Farallon	11/25/2024	MW-104-20241125	119 F-13	465	---	---	< 100	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50
Farallon	2/24/2025	MW-104-20250224	117 F-13	776	---	---	< 100	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50	
Site-Specific Cleanup Level for Groundwater ⁴				NE ⁵	NE ⁵	NE ⁵	NE ⁵	NE ⁵	71	485	276	NE	NE	NE
Marine Surface Water SL Protective of Aquatic Receptors ⁶				2,100		2,100		1,700	23	102	21	106		106

Table 2
Summary of Groundwater Analytical Results for TPH and BTEX
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter)										
				NWTPH-Dx ¹		NWTPH-Dx-SG ¹		GRO ²	Benzene ³	Toluene ³	Ethylbenzene ³	m,p-Xylenes ³	o-Xylene ³	Total Xylenes ³
				DRO	ORO	DRO	ORO							
MW-105	Landau	6/16/1999	AK50I	1,200	< 500	---	---	1,500	360	52	65	82	46	---
	Landau	12/16/1999	BD02F	1,500	< 500	---	---	1,800	170	48	38	52	22	---
	Landau	3/22/2000	BK98C	1,800	< 500	---	---	2,100	300	51	66	77	36	---
	Landau	6/14/2000	BT43F	1,600	< 500	---	---	3,300	430	38	88	82	46	---
	Landau	9/27/2000	CF72I	1,600	< 500	---	---	2,300	360	53 J	81 J	86 J	37 J	---
	Landau	9/27/2000*	CF72D	1,500	< 500	---	---	2,600	340	70 J	100 J	110 J	57 J	---
	Landau	12/20/2000	CP44C	1,500	< 500	---	---	2,500	200	30	47	52	27	---
	Landau	3/14/2001	CV96D	1,200	< 500	---	---	2,700	310	30	76	69	42	---
	Landau	6/22/2001	DH51G	1,200	< 500	---	---	2,400 J	390	23	82	60	42	---
	Landau	9/26/2001	DQ61D	1,600	< 500	---	---	2,300 J	330	33	69	56	37	---
	Landau	12/19/2001	DY69F	1,400	< 500	---	---	2,100 J	270 J	18 J	56 J	38 J	29 J	---
	Landau	3/20/2002	EE79D	1,600	< 500	---	---	2,000	330	29	68	47	29	---
	Landau	6/19/2002	EM41E	1,500	< 500	---	---	1,600 J	220	22	50	36	21	---
	Landau	6/25/2003	FP47D/M	1,400	< 500	---	---	1,500	310	32	52	37	19	---
	Landau	6/9/2004	GS18D	760	< 500	---	---	1,100	340	41	49	39	15	---
	Landau	8/25/2009	PL85D	< 250	< 500	---	---	3,000	410	92	66	66	24	---
	Landau	06/18/2014	YO69C	180	< 200	---	---	1,600	300	63	43	38	16	---
	Landau	8/21/2019	19H0324	296	< 200	---	---	2,630	337	33.9	33.5	24.4	10.9	35.4
	Farallon	10/7/2021	MW-105-20211007	---	---	---	---	1,500 F-03 V-01	147 V-01	15.4 V-01	17.9 V-01	---	---	17.6 V-01
	Farallon	4/29/2024	MW-105-20240429	413 F-13	< 157	121 F-17	< 157	502 F-03	109	4.49	6.78	---	---	4.44
Farallon	8/27/2024	MW-105-20240827	482 PRES F-13	< 155	---	---	897 F-03 V-01	159 V-01	< 1.00 V-01	0.760 V-01	< 1.00 V-01	< 0.500 V-01	< 1.50 V-01	
Farallon	11/25/2024	MW-105-20241125	406 F-13	< 152	---	---	604 F-03	64.6	1.03	1.18	1.00	< 0.500	< 1.50	
Farallon	2/24/2025	MW-105-20250224	385 F-13	< 152	---	---	940 F-03	169	< 1.00	1.14	0.930 J	0.370 J	1.30	
Site-Specific Cleanup Level for Groundwater ⁴				NE ⁵	NE ⁵	NE ⁵	NE ⁵	NE ⁵	71	485	276	NE	NE	NE
Marine Surface Water SL Protective of Aquatic Receptors ⁶				2,100		2,100		1,700	23	102	21	106		106

Table 2
Summary of Groundwater Analytical Results for TPH and BTEX
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter)										
				NWTPH-Dx ¹		NWTPH-Dx-SG ¹		GRO ²	Benzene ³	Toluene ³	Ethylbenzene ³	m,p-Xylenes ³	o-Xylene ³	Total Xylenes ³
				DRO	ORO	DRO	ORO							
MW-107R	Landau	6/16/1999	AK50F	< 250	< 500	---	---	550	< 1.0	3.7	22	17	8.6	---
	Landau	12/16/1999	BD02G	580	< 500	---	---	990	< 10	< 10	27	19	10	---
	Landau	3/22/2000	BK98A	360	< 500	---	---	840	< 10	< 10	23	21	12	---
	Landau	6/14/2000	BT43G	740	< 500	---	---	3,400	< 10	14	73	59	33	---
	Landau	9/27/2000	CF72J	600	< 500	---	---	780	< 10	< 10	14 J	13 J	< 10	---
	Landau	12/20/2000	CP44D	540	< 500	---	---	1,400	< 5.0	4.9 J	33	24	19	---
	Landau	3/14/2001	CV96E	1,200	< 500	---	---	1,800 J	< 5.0	8.6	46	33	23	---
	Landau	3/14/2001*	CV96G	1,100	< 500	---	---	1,400 J	1.2	7.6	44	33	23	---
	Landau	6/22/2001	DH51H	890	< 500	---	---	1,500	< 5.0	7.3	47	32	20	---
	Landau	9/26/2001	DQ61E	1,900	< 500	---	---	3,900	5.7	22	110	89	66	---
	Landau	12/19/2001	DY69G	630	< 500	---	---	780 J	< 5.0 J	< 5.0 J	21 J	15 J	11 J	---
	Landau	3/20/2002	EE79E	1,200	< 500	---	---	1,200	< 5.0	< 5.0	33	23	15	---
	Landau	6/19/2002	EM41F	1,000	< 500	---	---	1,700	< 5.0	< 5.0	32	23	13	---
	Landau	6/25/2003	FP47E/N	1,400	< 500	---	---	2,500	< 5.0	9.0	72	45	30	---
	Landau	6/9/2004	GS18C	680	< 500	---	---	880	< 5.0	< 5.0	24	15	11	---
	Landau	8/25/2009	PL85C	290	< 500	---	---	1,300	< 1.0	< 1.0	15	7.8	5.9	---
	Landau	06/19/2014	YO99C	290	< 200	---	---	4,200	1.4	1.1	32	16	11	---
	Landau	8/20/2019	19H0298	136	< 200	---	---	135	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.60
	Landau	8/20/2019*	19H0298	< 100	< 200	---	---	138	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.60
	Farallon	4/29/2024	MW-107R-20240429	1,200 F-13	< 154	683 F-17	< 154	608 F-03	1.17	< 1.00	4.68	---	---	4.39
	Farallon	8/27/2024	MW-107R-082724	693 F-13	< 157	< 78.4	< 157	1,260 F-03	1.39	< 1.00	6.18	3.69	3.59	7.28
	Farallon	11/26/2024	MW-107R-20241126	1,100 F-13	< 157	---	---	3,060 F-03	2.33	< 1.00	2.99	2.66	1.44	4.10
	Farallon	2/24/2025	MW-107R-20250224	550 F-13	< 160	---	---	529 F-03	0.490	< 1.00	0.710	0.630 J	0.410 J	1.04
Site-Specific Cleanup Level for Groundwater ⁴				NE ⁵	NE ⁵	NE ⁵	NE ⁵	NE ⁵	71	485	276	NE	NE	NE
Marine Surface Water SL Protective of Aquatic Receptors ⁶				2,100		2,100		1,700	23	102	21	106		106

Table 2
Summary of Groundwater Analytical Results for TPH and BTEX
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter)										
				NWTPH-Dx ¹		NWTPH-Dx-SG ¹		GRO ²	Benzene ³	Toluene ³	Ethylbenzene ³	m,p-Xylenes ³	o-Xylene ³	Total Xylenes ³
				DRO	ORO	DRO	ORO							
MW-108R	Landau	6/16/1999	AK50G	< 250	< 500	---	---	< 250	< 1.0	< 1.0	1.9	< 1.0	< 1.0	---
	Landau	12/16/1999	BD02K	< 250	< 500	---	---	< 250	< 1.0	< 1.0	1.3	< 1.0	< 1.0	---
	Landau	3/22/2000	BK98F	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/14/2000	BT43H	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	9/27/2000	CF72E	< 250	< 500	---	---	< 250	1.0	< 1.0	2.7 J	1.1 J	< 1.0	---
	Landau	12/20/2000	CP44G	< 250	< 500	---	---	< 250	< 1.0	< 1.0	1.4	0.6 J	0.5 J	---
	Landau	3/14/2001	CV96F	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/22/2001	DH51A	< 250	< 500	---	---	< 250 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	9/26/2001	DQ61F	< 250	< 500	---	---	250 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	12/19/2001	DY69H	< 250	< 500	---	---	< 250 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	12/19/2001*	DY69I	< 250	< 500	---	---	< 250 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	3/20/2002	EE79F	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/19/2002	EM41G	330	< 500	---	---	< 250 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	6/25/2003	FP47I/R	< 250	< 500	---	---	< 250	< 1.0	< 1.0	2.5	< 1.0	< 1.0	---
	Landau	6/9/2004	GS18H	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	8/24/2009	PL72C	< 250	< 500	---	---	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---
	Landau	06/19/2014	YO99B	< 100	< 200	---	---	< 250	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	---
	Landau	06/19/2014*	YO99A	< 100	< 200	---	---	< 250	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	---
	Landau	8/21/2019	19H0324	< 100	< 200	---	---	289 J	< 0.20 J	< 0.20 J	0.21 J	< 0.40 J	< 0.20 J	< 0.60
	Farallon	4/29/2024	MW-108R-20240429	92.1 F-11	< 154	< 76.9	< 154	< 100	< 0.200	< 1.00	< 0.500	---	---	< 1.50
	Farallon	8/27/2024	MW-108R-20240827	131 F-13	< 157	---	---	< 100 H	< 0.200 H	< 1.00 H	< 0.500 H	< 1.00 H	< 0.500 H	< 1.50 H
	Farallon	11/25/2024	MW-108R-20241125	< 75.5	< 151	---	---	< 100	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50
	Farallon	2/24/2025	MW-108R-20250224	< 80.0	< 160	---	---	< 100	< 0.200	< 1.00	< 0.500	< 1.00	< 0.500	< 1.50
Site-Specific Cleanup Level for Groundwater ⁴				NE ⁵	NE ⁵	NE ⁵	NE ⁵	NE ⁵	71	485	276	NE	NE	NE
Marine Surface Water SL Protective of Aquatic Receptors ⁶				2,100		2,100		1,700	23	102	21	106		106

NOTES:

Results in **bold** denote concentrations exceeding site-specific cleanup levels.

Results highlighted **gold** denote concentrations exceeding screening level protective of aquatic receptors.

< denotes analyte not detected at or above the reporting limit listed.

--- denotes sample not analyzed.

* denotes sample is a field duplicate.

¹Analyzed by Northwest Method NWTPH-Dx or NWTPH-Dx with Silica Gel Cleanup (NWTPH-Dx-SG).

²Analyzed by Northwest Method NWTPH-Gx.

³Analyzed by U.S. Environmental Protection Agency Method 8260/8021MOD/8260D.

⁴Site-specific groundwater cleanup levels from Table 1 of the Cleanup Action Plan for Union Station Property prepared by Landau Associates, Inc., July 28, 1997.

⁵If TPH is detected, the data will be reviewed to evaluate whether groundwater is adequately protected pursuant to WAC 173-340-720 (3) (c).

⁶Marine surface water screening levels protective of aquatic receptors derived from the Washington State Department of Ecology Implementation Memorandum No. 23, Concentrations of Gasoline and Diesel Range Organics Predicted to be Protective of Aquatic Receptors in Surface Waters, dated August 25, 2021.

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

F-03 = The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.

F-11 = the hydrocarbon pattern indicates weathered possible weathered diesel, mineral oil, or a contribution from a related component

F-12 = the result is primarily due to the presence of individual peaks in the quantitation range. No fuel pattern detected.

F-13 = The sample chromatographic pattern does not resemble the fuel standard used for quantitation

F-17 = no fuel pattern detected. The diesel result represents carbon range C12 to C24 (or C10 to C25 for 2024 results), and the oil result represents >C24 to C40 (or >C25 to C40 for 2024 results).

Farallon = Farallon Consulting, L.L.C.

GRO = TPH as gasoline-range organics

H = sample analyzed outside of holding time

J = result is an estimate

Landau = Landau Associates, Inc.

NE = not established

ORO = TPH as oil-range organics

PRES = incomplete field preservation. Additional preservative was added to adjust the pH within the range appropriate for this analysis.

SL = screening Level

V-01 = sample aliquot taken from VOA vial with headspace (air bubble greater than 6mm diameter)

<div> <div>Table 3</div> <div>Summary of Groundwater Analytical Results for PAHs</div> <div>Union Station Property</div> <div>Seattle, Washington</div> <div>Farallon PN: 2644-001</div> </div>																							
Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹																			
				Non-Carcinogenic PAHs												Carcinogenic PAHs							
				Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)perylene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes
B-4	Landau	6/16/1999	AK50J	33	---	190	3.7	280	---	82	51	7.3	6.2	6.8	< 1.1	0.44	0.37	0.06 J	0.12	0.13	< 0.11	< 0.11	---
	Landau	6/16/1999	AK50J^	---	---	---	---	---	---	---	---	---	---	---	---	0.44	0.06 J	---	---	0.37	0.13	0.12	< 0.11
	Landau	12/16/1999	BD02I	5,200	---	860	1.9	450	---	55	59	12	6.1	9.2	< 1.0	0.53	0.43	0.08 J	0.10	0.16	< 0.10	< 0.10	---
	Landau	12/16/1999	BD02I^	---	---	---	---	---	---	---	---	---	---	---	---	0.53	0.08 J	---	---	0.43	0.16	< 0.10	< 0.10
	Landau	3/22/2000	BK98J	4,100 J	---	580	4.3 J	350	---	100	120	18 J	20 J	19 J	2.4 J	9.8	9.0	6.8	6.2	9.8	5.4	1.3	---
	Landau	3/22/2000	BK98J^	---	---	---	---	---	---	---	---	---	---	---	---	9.8	6.8	---	---	9.0	9.8	6.2	5.4
	Landau	6/14/2000	BT43J	4,200 J	---	650	2.6	420	---	150	160	22	17	20	1.4	6.0	4.5	2.8	2.3	4.2	2.6	0.28	---
	Landau	6/14/2000	BT43J^	---	---	---	---	---	---	---	---	---	---	---	---	6.0	2.8	---	---	4.5	4.2	2.3	2.6
	Landau	9/27/2000	CF72G	3,800 J	---	660 J	2.7	370 J	---	110	130	16	13	14 J	< 1.0	4.0	3.3	1.3	2.5	3.1	1.6	0.45	---
	Landau	9/27/2000	CF72G^	---	---	---	---	---	---	---	---	---	---	---	---	4.0	1.3	---	---	3.3	3.1	2.5	1.6
	Landau	12/20/2000	CP44A	3,800	---	540	< 30	390	---	120	120	< 30	< 30	< 30	< 30	0.39	0.34 J	0.04 J	0.05 J	0.07 J	< 0.1	< 0.1	---
	Landau	12/20/2000	CP44A^	---	---	---	---	---	---	---	---	---	---	---	---	0.39	0.04 J	---	---	0.34 J	0.07 J	0.05 J	< 0.10
	Landau	3/14/2001	CV96H	3,100	---	670	8.8	430	---	150	230	28	42	46	7.5	17	16	9.6	13	17	6.8	2.1	---
	Landau	3/14/2001	CV96H^	---	---	---	---	---	---	---	---	---	---	---	---	17	9.6	---	---	16	17	13	6.8
	Landau	6/22/2001	DH51I	3,200	---	510	2.0	350	---	69	79	13	9.3	9.8	< 1.0	1.0	0.83	0.22	0.33	0.34	0.15	< 0.10	---
	Landau	6/22/2001	DH51I^	---	---	---	---	---	---	---	---	---	---	---	---	1.0	0.22	---	---	0.83	0.34	0.33	0.15
	Landau	9/26/2001	DQ61G	2,600 J	---	450	6.5	350	---	120	130	22	23	32	3.6	8.3	7.4	4.3	5.6	7.2	3.6	0.98	---
	Landau	12/19/2001	DY69A	2,700 J	---	480	3.2	330 J	---	88	110	16	14	14	< 1.0	1.7	1.5	0.61	1.2	1.3	0.57	< 0.2	---
	Landau	3/20/2002	EE79H	2,400 J	---	510	3.0	320	---	96	110	15	11	11	< 1.0	1.4	1.3 J	0.46	1.0	1.0	0.53	0.2 J	---
	Landau	6/19/2002	EM41H	1,200	---	260	10	270	---	78	69	10	9.1	9.1	< 1.0	0.41	0.36	< 0.10	< 0.10	0.12	< 0.10	< 0.10	---
	Landau	6/25/2003	FP47G/P	710 J	---	160	1.6	120	---	45	46	9.1	8.3	12	0.53	2.1	2.0	0.77	0.55	0.16	---	---	---
	Landau	6/9/2004	GS18I	0.41	---	0.46	2.9	69	---	18	7.8	4.6	9.0	12	0.45	2.0	1.7	1.1	1.1	1.2	0.44	0.28	---
B-4R	Landau	8/25/2009	PL85B	4.6	---	< 1.0	< 1.0	6.6	---	< 1.0	1.7	< 1.0	< 1.0	< 1.0	< 1.0	0.37	0.45	0.17	0.26	0.36	0.17	< 0.1	---
	Landau	06/19/2014	YO99D	< 1.1	---	< 1.1	< 1.1	4.2	---	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.12	< 0.12	--	--	< 0.12	< 0.12	< 0.12	< 0.12
	Landau	8/20/2019	19H0298	< 1.1	< 1.1	< 1.1	< 1.1	12.7	---	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	--	--	< 1.1	< 1.1	< 1.1	< 2.1
	Landau	8/20/2019	19H0298^	---	---	---	---	---	---	---	---	---	---	---	---	< 0.11	< 0.11	---	---	< 0.11	< 0.11	< 0.11	< 0.22
	Farallon	4/29/2024	B-4R-20240429	< 0.400	2.48	< 0.400	< 0.200	21.7	< 0.200	4.44	0.924	0.372	0.467	0.599	< 0.200	0.250	< 0.200	< 0.300	< 0.300	0.376	< 0.200	< 0.200	---
	Farallon	8/27/2024	B-4R-20240827	1.19	4.54	0.384 J	1.61	26.5	< 0.183	4.97	1.01	0.320 J	0.192 J	0.229 J	< 0.183	< 0.0915	< 0.0915	< 0.0915	< 0.0915	< 0.0915	< 0.0915	< 0.0915	---
	Farallon	11/25/2024	B-4R-20241125	1.16	5.81	0.744	1.86	30.8	< 0.159	5.49	1.58	0.362	0.195 J	0.223 J	< 0.159	< 0.0796	< 0.0796	< 0.0796	< 0.0796	< 0.0796	< 0.0796	< 0.0796	---
	Farallon	2/25/2025	B-4R-20250225	13.2 B	3.66	< 0.656	0.623	37.3	0.168 J	6.95	0.779	0.439	0.262 J	0.287 J	< 0.328	< 0.164	< 0.164	< 0.164	< 0.164	< 0.164	< 0.164	< 0.164	---
Site-Specific Cleanup Level for Groundwater ²				9,880	NE	NE	NE	225	NE	2,422	NE	25,900	27.1	777	NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	NE

Table 3
Summary of Groundwater Analytical Results for PAHs
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹																				
				Non-Carcinogenic PAHs												Carcinogenic PAHs								
				Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)perylene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes	
B-6	Landau	6/16/1999	AK50H	< 1.0	---	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
B-6R	Landau	12/16/1999	BD02H	< 1.0	---	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
	Landau	3/22/2000	BK98H	4.0 J	---	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
	Landau	3/22/2000*	BK98I	< 1.0 J	---	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
	Landau	6/14/2000	BT43I	< 1.0	---	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
	Landau	9/27/2000	CF72F	< 1.0	---	< 1.0	< 1.0	< 1.0 J	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
	Landau	12/20/2000	CP44H	< 1.0	---	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.03 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
	Landau	3/14/2001	CV96I	3.6	---	< 1.0	< 1.0	< 1.0	---	< 1.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	0.13 J	0.13 J	0.05 J	0.08 J	0.09 J	0.04 J	< 0.10 J	---	
	Landau	6/22/2001	DH51D	< 1.0	---	< 1.0	< 1.0	< 1.0 J	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
	Landau	9/26/2001	DQ61H	7.1 J	---	1.4	< 1.0	1.1	---	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0	0.26	0.23	0.15	0.16	0.21	0.11	< 0.10	---	
	Landau	12/19/2001	DY69B	4.9 J	---	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
	Landau	3/20/2002	EE79I	4.0 J	---	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
	Landau	3/20/2002*	EE79G	2.9 J	---	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
	Landau	6/19/2002	EM41I	< 1.0	---	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---	
	Landau	6/25/2003	FP47H/Q	0.14	---	0.090	< 0.010	0.050	---	0.020	0.080	0.040	0.060	0.080	< 0.010	0.020	0.020	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	---	
	Landau	6/9/2004	GS18J	< 0.13	---	< 0.030	0.010 J	< 0.14	---	0.053	0.16	0.065	0.081	0.11	0.019	0.035	0.030	0.016	0.016	0.023	0.016	< 0.01	---	
	Landau	8/25/2009	PL85A	2.6	---	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19	0.21	0.15	0.11	0.19	0.11	< 0.10	---	
	Landau	06/19/2014	YO99E	< 1.2	---	< 1.2	< 1.2	< 1.2	---	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.12	< 0.12	---	---	< 0.12	< 0.12	< 0.12	< 0.12	
	Landau	8/20/2019	19H0298	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	---	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	---	---	< 1.1	< 1.1	< 1.1	< 2.1
	Landau	8/20/2019	19H0298^	---	---	---	---	---	---	---	---	---	---	---	---	< 0.11	< 0.11	---	---	< 0.11	< 0.11	< 0.11	< 0.22	
	Farallon	4/29/2024	B-6R-20240429	< 0.0396	< 0.0396	< 0.0396	< 0.0198	0.0609	< 0.0198	0.0263	0.106	< 0.0198	0.0517	0.0510	< 0.0198	0.0205	< 0.0198	0.0300	< 0.0297	0.0321	< 0.0198	< 0.0198	---	
	Farallon	8/27/2024	B-6R-082724	0.169	< 0.0397	< 0.0397	0.0635	< 0.0744	< 0.0198	< 0.0198	< 0.0397	< 0.0198	< 0.0198	< 0.0198	< 0.0198	< 0.00992	< 0.00992	< 0.00992	< 0.00992	< 0.00992	< 0.00992	< 0.00992	---	
	Farallon	11/25/2024	B-6R-20241125	0.0632 J	< 0.0375	< 0.0375	0.0487	0.0328 J	< 0.0187	< 0.0187	0.0407 J	< 0.0187	< 0.0187	< 0.0187	< 0.0187	< 0.00937	< 0.00937	< 0.00937	< 0.00937	< 0.00937	< 0.00937	< 0.00937	---	
	Farallon	2/24/2025	B-6R-20250224	< 0.0695	< 0.0695	< 0.0695	0.0287 J	0.0687	< 0.0348	0.0248 J	0.0704	< 0.0348	0.0196 J	0.0196 J	< 0.0348	< 0.0174	< 0.0174	< 0.0174	< 0.0174	< 0.0174	< 0.0174	< 0.0174	---	
Site-Specific Cleanup Level for Groundwater ²				9,880	NE	NE	NE	225	NE	2,422	NE	25,900	27.1	777	NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	NE	

Table 3
Summary of Groundwater Analytical Results for PAHs
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹																			
				Non-Carcinogenic PAHs												Carcinogenic PAHs							
				Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)perylene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzo(a)fluoranthenes
MW-101R	Landau	6/16/1999	AK50A	4,000	---	450	2.8 J	210	---	80	74 J	4.8	4.8	3.7	< 1.0	0.19	0.18	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/16/1999*	AK50B	3,600	---	400	4.1 J	200	---	81 J	68 J	5.7	4.8	4.9	< 1.0	0.19	0.14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/16/1999	BD02A	2,400	---	520	1.7	290	---	60	60	5.6	5.2	5.9	< 1.0	0.27	0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/22/2000	BK98G	2,800 J	---	440	1.1 J	200	---	67 J	64 J	4.2 J	3.2 J	3.0 J	< 1.0	0.29	0.22	0.05 J	0.07 J	0.08 J	< 0.10	< 0.10	---
	Landau	6/14/2000	BT43A	4,500 J	---	710	1.8	340	---	110	130	8.7	6.9	6.6	< 1.0	0.39	0.27	0.05 J	0.07 J	0.09 J	0.04 J	< 0.10	---
	Landau	9/27/2000	CF72H	3,000 J	---	480 J	1.5	280 J	---	74	80 J	6.5	6.2	6.1 J	< 1.0	0.41	0.30	0.07 J	0.12	0.12	0.05 J	< 0.10	---
	Landau	12/20/2000	CP44B	2,400	---	460	1.8	330	---	95	65	6.4	5.3	5.4	< 1.0	0.27	0.20 J	0.03 J	0.04 J	0.03 J	< 0.10	< 0.10	---
	Landau	3/14/2001	CV96A	3,900	---	590	1.4	330	---	58	59	5.7	5.1	4.8	< 1.0	0.49	0.44	0.20	0.24	0.30	0.14	< 0.10	---
	Landau	6/22/2001	DH51F	3,100	---	600	1.5	330 J	---	78	74	7.1	6.1	6.0	< 1.0	0.27	0.18	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/22/2001*	DH51E	3,200	---	570	1.3	330 J	---	64	63	6.8	5.8	5.5	< 1.0	0.29	0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	9/26/2001	DQ61A	4,900 J	---	700	2.4	350	---	70	73	6.0	5.4	5.2	< 1.0	0.37	0.27	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/19/2001	DY69C	2,000 J	---	350	1.0 J	240 J	---	72	97	6.9	5.4	5.1	< 1.0	0.16	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/20/2002	EE79A	3,400 J	---	570	1.5	330	---	75	77	7.4	4.7	4.2	< 1.0	0.25	0.14 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/19/2002	EM41A	3,200	---	530	2.4	310	---	83	92	6.5	5.4	5.0	< 1.0	0.17	0.14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/19/2002*	EM41B	3,400	---	530	2.1	310	---	88	99	6.4	5.2	5.2	< 1.0	0.17	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/25/2003	FP47A/J	2,900 J	---	490 J	0.58 J	260	---	79	63	7.2	5.4	6.1	< 0.010	0.20	0.15	0.030	0.030	0.040	< 0.010	< 0.010	---
	Landau	6/25/2003*	FP47F/O	2,000 J	---	600 J	0.53 J	280	---	90	68	8.2	5.3	6.1	< 0.010	0.20	0.13	0.020	0.040	0.040	< 0.010	< 0.010	---
	Landau	6/9/2004	GS18F	1,800	---	280	2.0	250	---	72	66	6.5	5.0	4.6	< 0.050	0.23	0.16	0.048 J	0.048 J	0.052	< 0.050	< 0.050	---
	Landau	6/9/2004*	GS18G	1,800	---	290	2.3	260	---	79	75	7.6	5.6	5.3	< 0.050	0.25	0.17	0.048 J	0.071	0.060	< 0.050	< 0.050	---
	Landau	8/24/2009	PL72A	1,500	---	440	< 1.0	240	---	85	93	7.6	6.8	6.2	< 1.0	0.28 J	0.20 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	8/24/2009*	PL72E	1,400	---	400	< 1.0	220	---	76	86	7.1	6.0	5.3	< 1.0	0.43 J	0.33 J	< 0.10	< 0.10	0.14	< 0.10	< 0.10	---
	Landau	06/18/2014	YO69E	1,200	---	300	1.5	150	---	54	63	3.9	3.4	3.4	< 1.2	0.24	0.18	---	---	< 0.11	< 0.11	< 0.11	0.13
	Landau	8/21/2019	19H0324	1,770	412.0	551	< 1.0	275	---	95.9	99.8	8.1	6.2	8.3	< 1.0	< 1.0	< 1.0	---	---	< 1.0	< 1.0	< 1.0	< 102.0
	Landau	8/21/2019	19H0324^	---	---	---	---	---	---	---	---	---	---	---	---	0.22	0.16	---	---	< 0.10	< 0.10	< 0.10	< 0.20
	Farallon	10/7/2021	MW-101R-20211007	---	---	---	---	166	---	---	---	---	---	---	---	0.120	0.0871	< 0.0506	< 0.0506	< 0.0506	< 0.0506	< 0.0506	---
	Farallon	4/29/2024	MW-101R-20240429	163	125	108	< 1.13	108	8.77	42.9	48.9	6.13	5.35	5.19	< 0.755	0.948	< 0.755	1.30	< 1.13	1.63	< 0.755	< 0.755	---
	Farallon	8/27/2024	MW-101R-20240827	322	388	432	< 9.59	235	14.9	73.8	56.7	6.94	4.57	4.66	< 1.83	< 0.913	< 0.913	< 0.913	< 0.913	< 0.913	< 0.913	< 0.913	---
	Farallon	11/26/2024	MW-101R-20241126	190	302	305	< 10.2	182	13.8	58.4	36.9	4.35	3.62	3.58	< 1.63	< 0.814	< 0.814	< 0.814	< 0.814	< 0.814	< 0.814	< 0.814	---
	Farallon	2/24/2025	MW-101R-20250224	238 B	256	274	< 2.50	230	14.3	72.9	49.5	5.55	3.30	3.13	< 0.348	0.157 J	0.0871 J	< 0.174	< 0.174	< 0.174	< 0.174	< 0.174	---
Site-Specific Cleanup Level for Groundwater ²				9,880	NE	NE	NE	225	NE	2,422	NE	25,900	27.1	777	NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	NE

<div> <div>Table 3</div> <div>Summary of Groundwater Analytical Results for PAHs</div> <div>Union Station Property</div> <div>Seattle, Washington</div> <div>Farallon PN: 2644-001</div> </div>																							
Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹																			
				Non-Carcinogenic PAHs												Carcinogenic PAHs							
				Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)perylene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes
MW-102R	Landau	6/16/1999	AK50C	1.0	---	< 1.0	< 1.0	7.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/16/1999	BD02C	< 1.0	---	< 1.0	< 1.0	11	---	2.4	< 1.0	0.8 J	1.0	0.9 J	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/16/1999*	BD02B	< 1.0	---	< 1.0	< 1.0	11	---	2.1	< 1.0	0.7 J	1.0	1.1	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/22/2000	BK98D	3.7 J	---	< 1.0	< 1.0	11	---	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/14/2000	BT43B	9.3 J	---	1.8	< 1.0	13	---	2.7	3.2	1.0	1.0	< 1.0	< 1.0	0.06 J	0.04 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/14/2000*	BT43E	2.8 J	---	< 1.0	< 1.0	11	---	2.6	3.2	< 1.0	< 1.0	< 1.0	< 1.0	0.05 J	0.03 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	9/27/2000	CF72A	3.3 J	---	1.0 J	< 1.0	11 J	---	2.8	4.2	< 1.0	< 1.0	< 1.0 J	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/20/2000	CP44E	< 1.0	---	3.5	< 1.0	14	---	3.2	0.6 J	1.0 J	0.9 J	1.0 J	< 1.0	0.07 J	0.04 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/20/2000*	CP44I	< 1.0	---	3.2	< 1.0	12	---	3.2	1.4	0.8 J	0.9 J	0.8 J	< 1.0	0.06 J	0.04 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/14/2001	CV96B	1.7	---	< 1.0	< 1.0	13	---	2.9	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/22/2001	DH51B	< 1.0	---	< 1.0	< 1.0	12 J	---	3.2	4.3	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	9/26/2001	DQ61B	8.4 J	---	1.8	< 1.0	11	---	2.9	4.3	< 1.0	1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	9/26/2001*	DQ61I	1.0 J	---	< 1.0	< 1.0	12	---	3.0	4.3	1.1	1.1	1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/19/2001	DY69D	12 J	---	2.1	< 1.0	15 J	---	3.4	3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/20/2002	EE79B	22 J	---	2.6	< 1.0	17	---	3.7	3.8	1.1	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/19/2002	EM41C	1.5	---	< 1.0	< 1.0	13	---	2.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/25/2003	FP47B/K	< 0.06 J	---	0.12 J	0.16 J	11	---	2.9	2.7	0.84 J	0.48 J	0.40 J	< 0.010 J	0.030 J	0.020 J	< 0.010 J	< 0.010 J	< 0.010 J	< 0.010 J	< 0.010 J	---
	Landau	6/9/2004	GS18E	< 0.24	---	0.67	0.28	13	---	3.2	3.8	0.98	1.0	0.85	0.059	0.12	0.098	0.064	0.068	0.064	0.069	0.074	---
	Landau	8/24/2009	PL72B	3.1	---	< 1.0	< 1.0	11	---	2.8	3.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	06/18/2014	YO69D	2.4	---	< 1.2	< 1.2	7.6	---	1.8	1.6	< 1.2	< 1.2	< 1.2	< 1.2	< 0.12	< 0.12	---	---	< 0.12	< 0.12	< 0.12	< 0.12
	Landau	8/21/2019	19H0324	< 1.0	< 1.0	< 1.0	< 1.0	10.6	---	2.1	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---	---	< 1.0	< 1.0	< 1.0	< 2.0
	Landau	8/21/2019	19H0324^	---	---	---	---	---	---	---	---	---	---	---	---	< 0.10	< 0.10	---	---	< 0.10	< 0.10	< 0.10	< 0.20
	Farallon	4/29/2024	MW-102R-20240429	< 0.400	< 0.400	< 0.400	< 0.200	6.80	0.203	2.11	0.473	0.535	0.574	0.472	< 0.200	< 0.200	< 0.200	< 0.300	< 0.300	< 0.300	< 0.200	< 0.200	---
	Farallon	8/27/2024	MW-102R-08272024	< 0.142	0.180 J	< 0.142	1.22	13.1	0.294	4.19	1.15	0.918	0.683	0.559	< 0.0712	< 0.0356	< 0.0356	< 0.0356	< 0.0356	< 0.0356	< 0.0356	< 0.0356	---
	Farallon	11/25/2024	MW-102R-20241125	< 0.129	0.330	< 0.129	1.39	11.4	0.362	4.05	0.930	0.761	0.484	0.376	< 0.0643	< 0.0322	< 0.0322	< 0.0322	< 0.0322	< 0.0322	< 0.0322	< 0.0322	---
	Farallon	2/24/2025	MW-102R-20250224	< 0.0818	0.226	0.0414 J	0.731	11.2	0.201	3.13	1.31	0.697	0.473	0.397	< 0.0409	0.0317	0.0261	< 0.0205	< 0.0205	< 0.0205	< 0.0205	< 0.0205	---
Site-Specific Cleanup Level for Groundwater ²				9,880	NE	NE	NE	225	NE	2,422	NE	25,900	27.1	777	NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	NE

<div> <div>Table 3</div> <div>Summary of Groundwater Analytical Results for PAHs</div> <div>Union Station Property</div> <div>Seattle, Washington</div> <div>Farallon PN: 2644-001</div> </div>																							
Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹																			
				Non-Carcinogenic PAHs												Carcinogenic PAHs							
				Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)perylene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzo(a,h)anthracenes
MW-104	Landau	6/16/1999	AK50E	< 1.0	---	< 1.0	< 1.0	58	---	11	4.5	1.2	1.4	1.2	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/16/1999	BD02E	< 1.0	---	< 1.0	2.0	37	---	13	7.9	1.6	1.8	1.7	< 1.0	0.10	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/22/2000	BK98B	1.1 J	---	< 1.0	< 1.0	37	---	10	5.7	1.3	1.4	1.2	< 1.0	0.11	0.09 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/14/2000	BT43D	< 1.0	---	< 1.0	< 1.0	43 J	---	9.6	< 1.0	1.3	1.9	1.5	< 1.0	0.12	0.09 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	9/27/2000	CF72C	< 1.0	---	< 1.0	< 1.0	47 J	---	12	5.0	1.5	1.5	1.2 J	< 1.0	0.10	0.09 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/20/2000	CP44F	< 1.0	---	24	< 1.0	62	---	17	8.7	1.7	1.9	1.6	< 1.0	0.14 J	0.12 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/14/2001	CV96C	< 1.0	---	< 1.0	1.1	40	---	11	3.1	1.2	1.6	1.2	< 1.0	0.11	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/22/2001	DH51C	< 1.0	---	< 1.0	< 1.0	43 J	---	11	< 1.0	1.3	1.5	1.1	< 1.0	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	9/26/2001	DQ61C	< 1.0 J	---	4.9	1.4	46	---	10	1.6	1.0	1.5	1.1	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/19/2001	DY69E	< 1.0	---	< 1.0	< 1.0	64 J	---	11	< 1.0	1.1	1.7	1.4	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/20/2002	EE79C	< 1.0 J	---	2.0	< 1.0	50	---	10	1.2	1.2	1.4	1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/19/2002	EM41D	< 1.0	---	< 1.0	2.3	50	---	6.8	< 1.0	< 1.0	1.4	1.1	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/25/2003	FP47C/L	0.40	---	9.3	0.47	48	---	8.5	< 0.010	0.77	1.4	1.3	< 0.010	0.090	0.060	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	---
	Landau	6/9/2004	GS18B	< 0.75	---	1.5	0.70	45	---	4.0	0.36	< 0.01	1.4	1.1	< 0.010	0.070	0.047	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	---
	Landau	8/24/2009	PL72D	4.5	---	7.8	< 1.0	55	---	15	15	1.7	1.8	1.3	< 1.0	0.14	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	06/18/2014	YO69B	1.9	---	11	< 1.2	54	---	15	12	2.1	1.6	1.6	< 1.2	0.18	0.23	---	---	0.14	< 0.12	< 0.12	0.24
	Landau	8/21/2019	19H0324	< 1.0	10.2	1.9	12.4	45.1	---	10.4	2.8	1.0	1.4	1.6	< 1.0	< 1.0	< 1.0	---	---	< 1.0	< 1.0	< 1.0	< 2.0
	Landau	8/21/2019	19H0324^	---	---	---	---	---	---	---	---	---	---	---	---	< 0.10	< 0.10	---	---	< 0.10	< 0.10	< 0.10	< 0.20
	Farallon	4/29/2024	MW-104-20240429	< 0.421	0.471	< 0.421	0.445	26.7	< 0.211	2.72	< 0.211	< 0.211	1.04	0.787	< 0.211	< 0.211	< 0.211	< 0.316	< 0.316	< 0.316	< 0.211	< 0.211	---
	Farallon	8/27/2024	MW-104-082724	< 0.362	0.601 J	< 0.362	2.07	51.7	0.221 J	5.78	< 0.362	0.321 J	1.42	1.08	< 0.181	< 0.0904	< 0.0904	< 0.0904	< 0.0904	< 0.0904	< 0.0904	< 0.0904	---
	Farallon	11/25/2024	MW-104-20241125	< 0.322	< 0.322	< 0.322	3.17	50.0	< 0.161	1.50	< 0.322	< 0.161	1.36	1.07	< 0.161	0.0885 J	< 0.0804	< 0.0804	< 0.0804	< 0.0804	< 0.0804	< 0.0804	---
	Farallon	2/24/2025	MW-104-20250224	< 0.0754	0.0551 J	< 0.0754	0.645	43.2	0.117	1.81	< 0.0754	< 0.0589	0.875	0.680	< 0.0377	0.0429	0.0334	0.0170 J	< 0.0188	0.0137 J	0.0108 J	< 0.0188	---
Site-Specific Cleanup Level for Groundwater ²				9,880	NE	NE	NE	225	NE	2,422	NE	25,900	27.1	777	NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	NE

Table 3
Summary of Groundwater Analytical Results for PAHs
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹																			
				Non-Carcinogenic PAHs												Carcinogenic PAHs							
				Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)perylene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes
MW-105	Landau	6/16/1999	AK50I	1,700	---	70	13	72	---	38	72	7.1	7.1	6.1	< 1.0	0.28	0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/16/1999	BD02F	1,300	---	190	7.6	80	---	39	67	8.2	9.1	9.5	< 1.0	0.32	0.23	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/22/2000	BK98C	860 J	---	75 J	2.8 J	70 J	---	27 J	61 J	5.1 J	5.7 J	4.3 J	< 1.0	0.30	0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/14/2000	BT43F	1,500 J	---	120	2.7	75	---	31	72	9.5	8.7	7.6	< 1.0	0.49	0.32	0.04 J	0.05 J	0.05 J	< 0.10	< 0.10	---
	Landau	9/27/2000	CF72I	820 J	---	90 J	2.9	73 J	---	31	66	7.6	6.9	5.8 J	< 1.0	0.38	0.31	0.08 J	0.12	0.14	0.05 J	< 0.10	---
	Landau	9/27/2000*	CF72D	1,200 J	---	120 J	3.1	100 J	---	32	66	8.0	7.7	5.8 J	< 1.0	0.34	0.21	0.03 J	0.06 J	0.06 J	< 0.10	< 0.10	---
	Landau	12/20/2000	CP44C	1,000	---	100	2.3	100	---	42	57	7.4	9.2	9.6	< 1.0	0.33	0.25 J	0.03 J	0.04 J	0.02 J	< 0.10	< 0.10	---
	Landau	3/14/2001	CV96D	1,000	---	130	1.6	67	---	32	58	8.1	11	9.6	< 1.0	0.76	0.69	0.23	0.35	0.36	0.15	< 0.10	---
	Landau	6/22/2001	DH51G	770	---	110	1.2	70	---	32	59	7.0	9.5	8.1	< 1.0	0.52	0.35	0.12	0.13	0.15	< 0.10	< 0.10	---
	Landau	9/26/2001	DQ61D	610 J	---	89	1.7	67	---	29	60	6.4	8.1	6.6	< 1.0	0.41	0.27	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/19/2001	DY69F	860 J	---	74	1.2	80 J	---	35	73	9.6	11	9.8	< 1.0	0.77 J	0.56 J	0.20 J	0.32 J	0.4 J	0.19 J	< 0.10 J	---
	Landau	3/20/2002	EE79D	940 J	---	96	< 1.0	79	---	30	65	8.1	11	8.2	< 1.0	0.85	0.66 J	0.17	0.36	0.41	0.15	< 0.10	---
	Landau	6/19/2002	EM41E	410	---	76	1.1	75	---	32	57	5.8	7.4	6.8	< 1.0	0.24	0.16	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/25/2003	FP47D/M	480 J	---	71	0.29 J	54	---	24	40	5.6	5.9	6.1	< 0.010	0.24	0.15	0.030	0.040	0.040	< 0.010	< 0.010	---
	Landau	6/9/2004	GS18D	540	---	62	0.98	48	---	20	34	4.8	6.5	5.7	0.062	0.46	0.28	0.10	0.12	0.14	0.068	0.053	---
	Landau	8/25/2009	PL85D	240	---	29	< 1.0	50	---	19	30	4.3	6.0	4.8	< 1.0	1.2	1.1	0.55	0.74	1.0	0.48	0.17	---
	Landau	06/18/2014	YO69C	180	---	19	< 1.2	33	---	12	23	3.1	4.7	4.6	< 1.2	0.35	0.28	---	---	0.19	< 0.12	< 0.12	0.29
	Landau	8/21/2019	19H0324	269	30.6	26.8	< 1.0	39.5	---	15.3	31	3.5	6.1	7.3	< 1.0	1.1	< 1.0	---	---	< 1.0	< 1.0	< 1.0	< 2.1
	Landau	8/21/2019	19H0324^	---	---	---	---	---	---	---	---	---	---	---	---	0.27	0.24	---	---	0.12	< 0.10	< 0.10	< 0.21
	Farallon	10/7/2021	MW-105-20211007	---	---	---	---	---	---	---	---	---	---	---	---	0.124	0.0888	< 0.0426	< 0.0426	< 0.0426	< 0.0426	< 0.0426	---
	Farallon	4/29/2024	MW-105-20240429	10.2	4.09	< 1.50	< 0.748	30.1	4.53	9.23	< 0.748	2.41	4.69	3.97	< 0.748	< 0.748	< 0.748	< 1.12	< 1.12	< 1.12	< 0.748	< 0.748	---
	Farallon	8/27/2024	MW-105-20240827	19.6	20.3	14.3	3.11	36.9	5.26	9.36	1.67	1.89	2.81	2.35	< 0.184	0.216	0.138 J	0.0966 J	< 0.0920	0.115 J	< 0.0920	< 0.0920	---
	Farallon	11/25/2024	MW-105-20241125	20.5	13.6	9.45	3.08	33.1	5.82	10.9	6.76	2.52	4.08	3.69	< 0.163	0.431	0.277	0.216	< 0.0813	0.207	< 0.0813	< 0.0813	---
	Farallon	2/24/2025	MW-105-20250224	49.6 B	19.7	15.4	2.12	35.4	5.97	12.6	4.03	2.20	3.28	3.09	0.0782	0.505	0.336	0.254	0.0798 J	0.278	0.0750	0.0149 J	---
Site-Specific Cleanup Level for Groundwater ²				9,880	NE	NE	NE	225	NE	2,422	NE	25,900	27.1	777	NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	NE

Table 3
Summary of Groundwater Analytical Results for PAHs
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹																			
				Non-Carcinogenic PAHs												Carcinogenic PAHs							
				Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)perylene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzo(a,h)anthracenes
MW-107R	Landau	6/16/1999	AK50F	2.1	---	6.8	< 1.0	5.9	---	1.5	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/16/1999	BD02G	390	---	44	< 1.0	18	---	4.8	3.2	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/22/2000	BK98A	600 J	---	39	< 1.0	14 J	---	3.2	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/14/2000	BT43G	2,000 J	---	130	< 1.0	47	---	12	9.1	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	9/27/2000	CF72J	900 J	---	78 J	< 1.0	36 J	---	9.2	6.7	< 1.0	< 1.0	< 1.0 J	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/20/2000	CP44D	740	---	63	< 1.0	33	---	8.9	5.9	< 1.0	< 1.0	< 1.0	< 1.0	0.04 J	0.03 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/14/2001	CV96E	2,200	---	170	< 1.0	53	---	16	12	1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/14/2001*	CV96G	1,900	---	150	< 1.0	53	---	17	12	1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/22/2001	DH51H	1,300	---	130	< 1.0	47	---	14	9.8	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	9/26/2001	DQ61E	1,400 J	---	150	< 1.0	56	---	15	12	1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/19/2001	DY69G	990 J	---	66	< 1.0	38 J	---	10	7.6	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/20/2002	EE79E	2,200 J	---	150	< 1.0	63	---	17	14	1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/19/2002	EM41F	1,000	---	77	< 1.0	43	---	13	8.8	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/25/2003	FP47E/N	1,400 J	---	220	0.3 J	76	---	27	18	1.4	0.49	0.44	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	---
	Landau	6/9/2004	GS18C	1,200	---	140	0.47	58	---	19	14	1.0	0.47	0.49	< 0.050	0.053	0.051	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	---
	Landau	8/25/2009	PL85C	480	---	100	< 1.0	44	---	12	8.7	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	06/19/2014	YO99C	160	---	57	< 3.4	29	---	8.5	8.4	< 3.4	< 3.4	< 3.4	< 3.4	< 0.12	< 0.12	---	---	< 0.12	< 0.12	< 0.12	< 0.12
	Landau	8/20/2019	19H0298	2.8 J	18.4 J	19.1 J	< 1	18.6 J	---	5.7 J	5.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---	---	< 1.0	< 1.0	< 1.0	< 2.0
	Landau	8/20/2019*	19H0298	4.8 J	23.5 J	26.0 J	< 1.0	24.1 J	---	7.5 J	6.8 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---	---	< 1.0	< 1.0	< 1.0	< 2.1
	Landau	8/20/2019	19H0298^	---	---	---	---	---	---	---	---	---	---	---	---	< 0.10	< 0.10	---	---	< 0.10	< 0.10	< 0.10	< 0.20
	Landau	8/20/2019*	19H0298^	---	---	---	---	---	---	---	---	---	---	---	---	< 0.10	< 0.10	---	---	< 0.10	< 0.10	< 0.10	< 0.20
Farallon	4/29/2024	MW-107R-20240429	24.8	48.3	26.7	< 2.69	56.1	2.89	19.9	11.0	1.53	0.809	0.805	< 0.769	< 0.769	< 0.769	< 1.15	< 1.15	< 1.15	< 0.769	< 0.769	---	
Farallon	8/27/2024	MW-107R-082724	0.168	0.0531 J	0.0702 J	5.06	< 0.0640	< 0.0629	< 0.166	0.0655 J	0.338	< 0.0190	0.0213 J	< 0.0190	< 0.00949	< 0.00949	< 0.00949	< 0.00949	< 0.00949	< 0.00949	< 0.00949	---	
Farallon	11/26/2024	MW-107R-20241126	227	152	132	4.52	143	6.34	37.7	11.5	2.27	1.09	1.06	< 0.0180	0.0225	0.0162 J	< 0.00900	< 0.00900	0.00900 J	< 0.00900	< 0.00900	---	
Farallon	2/24/2025	MW-107R-20250224	10.7 B	51.1	40.1	1.47	67.3	3.25	19.1	8.93	1.32	0.613	0.655	< 0.0320	0.0152 J	0.0104 J	< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160	---	
Site-Specific Cleanup Level for Groundwater ²				9,880	NE	NE	NE	225	NE	2,422	NE	25,900	27.1	777	NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	NE

Table 3
Summary of Groundwater Analytical Results for PAHs
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹																			
				Non-Carcinogenic PAHs												Carcinogenic PAHs							
				Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)perylene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes
MW-108R	Landau	6/16/1999	AK50G	67	---	11	< 1.0	5.8	---	1.6	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/16/1999	BD02K	50	---	10	< 1.0	5.7	---	1.9	2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/22/2000	BK98F	20 J	---	4.5	< 1.0	2.3	---	< 1.0	2.0	< 1.0	< 1.0	< 1.0	< 1.0	0.05 J	0.04 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/14/2000	BT43H	50 J	---	7.7	< 1.0	4.1	---	1.3	2.0	< 1.0	< 1.0	< 1.0	< 1.0	0.05 J	0.04 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	9/27/2000	CF72E	100 J	---	14 J	< 1.0	7.7 J	---	1.8	2.6	< 1.0	< 1.0	< 1.0 J	< 1.0	0.08 J	0.06 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/20/2000	CP44G	53	---	9.4	< 1.0	6.8	---	2.1	2.3	< 1.0	< 1.0	< 1.0	< 1.0	0.06 J	0.04 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/14/2001	CV96F	19	---	4.0	< 1.0	2.5	---	1.1	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/22/2001	DH51A	30	---	5.4	< 1.0	3.8 J	---	1.1	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	9/26/2001	DQ61F	22 J	---	3.9	< 1.0	2.6	---	1.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/19/2001	DY69H	31 J	---	4.7	< 1.0	3.0 J	---	1.1	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	12/19/2001*	DY69I	20 J	---	3.7	< 1.0	2.3 J	---	< 1.0	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	3/20/2002	EE79F	27 J	---	5.0	< 1.0	3.0	---	1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/19/2002	EM41G	49	---	7.9	< 1.0	4.6	---	1.4	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	6/25/2003	FP47I/R	33 J	---	6.2	0.040	3.3	---	1.1	1.5	0.22	0.16	0.21	< 0.010	0.030	0.020	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	---
	Landau	6/9/2004	GS18H	11	---	2.8	< 0.05	2.1	---	1.0	1.9	0.29	0.28	0.30	0.058	0.10	0.099	0.055	0.074	0.066	0.070	0.070	---
	Landau	8/24/2009	PL72C	12	---	1.6	< 1.0	2.1	---	< 1.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	---
	Landau	06/19/2014	YO99B	1.4	---	< 1.1	< 1.1	1.3	---	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.12	< 0.12	---	---	< 0.12	< 0.12	< 0.12	< 0.12
	Landau	06/19/2014*	YO99A	1.7	---	< 1.2	< 1.2	1.2	---	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.11	< 0.11	---	---	< 0.11	< 0.11	< 0.11	< 0.11
	Landau	8/21/2019	19H0324	< 1	< 1.0	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	---	---	< 1.0	< 1.0	< 1.0	< 2.1
	Landau	8/21/2019	19H0324^	---	---	---	---	---	---	---	---	---	---	---	---	< 0.10	< 0.10	---	---	< 0.10	< 0.10	< 0.10	< 0.21
Farallon	4/29/2024	MW-108R-20240429	0.0510	0.0560	< 0.0385	< 0.0192	0.309	0.0439	0.165	0.375	0.0513	0.0979	0.0999	< 0.0192	< 0.0192	< 0.0192	< 0.0288	< 0.0288	< 0.0288	< 0.0192	< 0.0192	< 0.0192	---
Farallon	8/27/2024	MW-108R-20240827	< 0.0378	< 0.0378	< 0.0378	0.0274 J	0.352	0.0549	0.193	0.274	0.132	0.0624	0.0615	< 0.0189	0.0104 J	< 0.00946	< 0.00946	< 0.00946	< 0.00946	< 0.00946	< 0.00946	< 0.00946	---
Farallon	11/25/2024	MW-108R-20241125	0.0589 J	0.0552 J	0.0350 J	0.0527	0.397	0.0705	0.212	0.272	0.138	0.0499	0.0490	< 0.0165	0.0128 J	< 0.00824	< 0.00824	< 0.00824	< 0.00824	< 0.00824	< 0.00824	< 0.00824	---
Farallon	2/24/2025	MW-108R-20250224	< 0.0638	0.0367 J	< 0.0638	0.0243 J	0.514	0.0725	0.287	0.400	0.149	0.0586	0.0586	< 0.0319	0.00877 J	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	---
Site-Specific Cleanup Level for Groundwater ²				9,880	NE	NE	NE	225	NE	2,422	NE	25,900	27.1	777	NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	NE

NOTES:
Results in **bold** denote concentrations exceeding applicable cleanup levels.
< denotes analyte not detected at or exceeding the reporting limit listed.
--- denotes sample not analyzed.
* denotes sample is a field duplicate.
^ denotes sample analyzed by 8270D SIM
¹Analyzed by U.S. Environmental Protection Agency Method 8270D/8270F unless otherwise noted
²Site-specific groundwater cleanup levels from Table 1 of the Cleanup Action Plan for Union Station Property prepared by Landau Associates, Inc., July 28, 2022

B = Analyte detected in an associated blank sample.
cPAHs = carcinogenic polycyclic aromatic hydrocarbons
Farallon = Farallon Consulting, L.L.C.
J = result is an estimate
Landau = Landau Associates, Inc.
PAHs = polycyclic aromatic hydrocarbons
NE = not established

Table 4
Summary of Groundwater Analytical Results for Arsenic
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹	
				Total Arsenic	Dissolved Arsenic
B-4	Landau	6/16/1999	AK50J	---	2
	Landau	12/16/1999	BD02I	---	< 5
	Landau	3/22/2000	BK98J	---	3
	Landau	6/14/2000	BT43J	---	3
	Landau	9/27/2000	CF72G	---	3
	Landau	12/20/2000	CP44A	---	3
	Landau	3/14/2001	CV96H	---	2
	Landau	6/22/2001	DH51I	---	3
	Landau	9/26/2001	DQ61G	---	3
	Landau	12/19/2001	DY69A	---	3 J
	Landau	3/20/2002	EE79H	---	3
	Landau	6/19/2002	EM41H	---	3.2
	Landau	6/25/2003	FP47G/P	---	7
	Landau	6/9/2004	GS18I	---	4
B-4R	Landau	8/25/2009	PL85B	---	13.4
	Landau	06/19/2014	YO99D	---	13
	Landau	8/20/2019	19H0298	---	13.7
	Farallon	10/7/2021	B-4R-20211007	2.37	1.52
	Farallon	4/29/2024	B-4R-20240429	3.92	3.68 3.41 F1 H12
	Farallon	8/27/2024	B-4R-20240827	10.5	5.72
	Farallon	11/25/2024	B-4R-20241125	< 1.00	< 1.00
	Farallon	2/25/2025	B-4R-20250225	< 1.00	< 1.00
B-6	Landau	6/16/1999	AK50H	---	13
B-6R	Landau	12/16/1999	BD02H	---	6
	Landau	3/22/2000	BK98H	---	20
	Landau	3/22/2000*	BK98I	---	20
	Landau	6/14/2000	BT43I	---	17
	Landau	9/27/2000	CF72F	---	35
	Landau	12/20/2000	CP44H	---	21
	Landau	3/14/2001	CV96I	---	27
	Landau	6/22/2001	DH51D	---	33
	Landau	9/26/2001	DQ61H	---	31
	Landau	12/19/2001	DY69B	---	22 J
	Landau	3/20/2002	EE79I	---	27 J
	Landau	3/20/2002*	EE79G	---	38 J
	Landau	6/19/2002	EM41I	---	25
	Landau	6/25/2003	FP47H/Q	---	24
	Landau	6/9/2004	GS18J	---	30
	Landau	8/25/2009	PL85A	---	31
	Landau	06/19/2014	YO99E	---	26
	Landau	8/20/2019	19H0298	---	30.4
	Farallon	10/7/2021	B-6R-20211007	36.0	31.8
	Farallon	4/29/2024	B-6R-20240429	43.3	43.8 22.3 F1 H12
	Farallon	8/27/2024	B-6R-082724	28.0	20.5 4.40 F1
	Farallon	11/25/2024	B-6R-20241125	40.2	40.9 7.81 F1
	Farallon	2/24/2025	B-6R-20250224	45.6	47.3 18.9 F1
Site-Specific Cleanup Level for Groundwater ²				4	
Applicable MTCA Cleanup Levels for Groundwater - Puget Sound Background Threshold Value ³				8 ⁴	

Table 4
Summary of Groundwater Analytical Results for Arsenic
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹	
				Total Arsenic	Dissolved Arsenic
MW-101R	Landau	6/16/1999	AK50A	---	13
	Landau	6/16/1999*	AK50B	---	12
	Landau	12/16/1999	BD02A	---	14
	Landau	3/22/2000	BK98G	---	12
	Landau	6/14/2000	BT43A	---	12
	Landau	9/27/2000	CF72H	---	13
	Landau	12/20/2000	CP44B	---	13
	Landau	3/14/2001	CV96A	---	12
	Landau	6/22/2001	DH51F	---	12
	Landau	6/22/2001*	DH51E	---	12
	Landau	9/26/2001	DQ61A	---	14
	Landau	12/19/2001	DY69C	---	10 J
	Landau	3/20/2002	EE79A	---	11
	Landau	6/19/2002	EM41A	---	10
	Landau	6/19/2002*	EM41B	---	11
	Landau	6/25/2003	FP47A/J	---	11
	Landau	6/25/2003*	FP47F/O	---	11
	Landau	6/9/2004	GS18F	---	12
	Landau	6/9/2004*	GS18G	---	12
	Landau	8/24/2009	PL72A	---	9.1
	Landau	8/24/2009*	PL72E	---	9.5
	Landau	06/18/2014	YO69E	---	11
	Landau	8/21/2019	19H0324	---	11.0
	Farallon	10/7/2021	MW-101R-20211007	9.10	8.37
	Farallon	4/29/2024	MW-101R-20240429	5.13	4.45 < 1.00 F1 H12
	Farallon	8/27/2024	MW-101R-20240827	8.31	7.96
	Farallon	11/26/2024	MW-101R-20241126	6.37	6.45
	Farallon	2/24/2025	MW-101R-20250224	4.28	4.59
Site-Specific Cleanup Level for Groundwater ²				4	
Applicable MTCA Cleanup Levels for Groundwater - Puget Sound Background Threshold Value ³				8 ⁴	

Table 4
Summary of Groundwater Analytical Results for Arsenic
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹	
				Total Arsenic	Dissolved Arsenic
MW-102R	Landau	6/16/1999	AK50C	---	4
	Landau	12/16/1999	BD02C	---	5
	Landau	12/16/1999*	BD02B	---	6
	Landau	3/22/2000	BK98D	---	7
	Landau	6/14/2000	BT43B	---	8
	Landau	6/14/2000*	BT43E	---	7
	Landau	9/27/2000	CF72A	---	10
	Landau	12/20/2000	CP44E	---	9
	Landau	12/20/2000*	CP44I	---	10
	Landau	3/14/2001	CV96B	---	6
	Landau	6/22/2001	DH51B	---	7
	Landau	9/26/2001	DQ61B	---	11
	Landau	9/26/2001*	DQ61I	---	11
	Landau	12/19/2001	DY69D	---	3 J
	Landau	3/20/2002	EE79B	---	5
	Landau	6/19/2002	EM41C	---	4
	Landau	6/25/2003	FP47B/K	---	< 2
	Landau	6/9/2004	GS18E	---	6
	Landau	8/24/2009	PL72B	---	6.8
	Landau	06/18/2014	YO69D	---	5
	Landau	8/21/2019	19H0324	---	6.52
	Farallon	10/7/2021	MW-102R-20211007	4.59	3.02
	Farallon	4/29/2024	MW-102R-20240429	2.24	2.04 < 1.00 F1 H12
	Farallon	8/27/2024	MW-102R-08272024	2.59	2.21
	Farallon	11/25/2024	MW-102R-20241125	4.34	3.84
	Farallon	2/24/2025	MW-102R-20250224	3.55	3.68
Site-Specific Cleanup Level for Groundwater ²				4	
Applicable MTCA Cleanup Levels for Groundwater - Puget Sound Background Threshold Value ³				8 ⁴	

Table 4
Summary of Groundwater Analytical Results for Arsenic
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹	
				Total Arsenic	Dissolved Arsenic
MW-104	Landau	6/16/1999	AK50E	---	< 1
	Landau	12/16/1999	BD02E	---	1
	Landau	3/22/2000	BK98B	---	< 1
	Landau	6/14/2000	BT43D	---	< 1
	Landau	9/27/2000	CF72C	---	1
	Landau	12/20/2000	CP44F	---	< 1
	Landau	3/14/2001	CV96C	---	1
	Landau	6/22/2001	DH51C	---	1
	Landau	9/26/2001	DQ61C	---	1
	Landau	12/19/2001	DY69E	---	1 J
	Landau	3/20/2002	EE79C	---	1
	Landau	6/19/2002	EM41D	---	1.0
	Landau	6/25/2003	FP47C/L	---	1
	Landau	6/9/2004	GS18B	---	2
	Landau	8/24/2009	PL72D	---	7.0
	Landau	06/18/2014	YO69B	---	1.5
	Landau	8/21/2019	19H0324	---	0.842
	Farallon	4/29/2024	MW-104-20240429	< 1.00	< 1.00
	Farallon	8/27/2024	MW-104-082724	< 1.00	< 1.00
	Farallon	11/25/2024	MW-104-20241125	< 1.00	< 1.00
	Farallon	2/24/2025	MW-104-20250224	< 1.00	< 1.00
MW-105	Landau	6/16/1999	AK50I	---	6
	Landau	12/16/1999	BD02F	---	14
	Landau	3/22/2000	BK98C	---	10
	Landau	6/14/2000	BT43F	---	14
	Landau	9/27/2000	CF72I	---	7
	Landau	9/27/2000*	CF72D	---	6
	Landau	12/20/2000	CP44C	---	18
	Landau	3/14/2001	CV96D	---	14
	Landau	6/22/2001	DH51G	---	14
	Landau	9/26/2001	DQ61D	---	14
	Landau	12/19/2001	DY69F	---	18 J
	Landau	3/20/2002	EE79D	---	19
	Landau	6/19/2002	EM41E	---	12
	Landau	6/25/2003	FP47D/M	---	12
	Landau	6/9/2004	GS18D	---	17
	Landau	8/25/2009	PL85D	---	1.4
	Landau	06/18/2014	YO69C	---	15
	Landau	8/21/2019	19H0324	---	8.19
	Farallon	10/7/2021	MW-105-20211007	13.3	12.6
	Farallon	4/29/2024	MW-105-20240429	5.47	3.85 1.66 F1 H12
	Farallon	8/27/2024	MW-105-20240827	4.79	4.31
	Farallon	11/25/2024	MW-105-20241125	8.60	7.10
	Farallon	2/24/2025	MW-105-20250224	4.56	3.09
Site-Specific Cleanup Level for Groundwater ²				4	
Applicable MTCA Cleanup Levels for Groundwater - Puget Sound Background Threshold Value ³				8⁴	

Table 4
Summary of Groundwater Analytical Results for Arsenic
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹	
				Total Arsenic	Dissolved Arsenic
MW-107R	Landau	6/16/1999	AK50F	---	8
	Landau	12/16/1999	BD02G	---	6
	Landau	3/22/2000	BK98A	---	6
	Landau	6/14/2000	BT43G	---	6
	Landau	9/27/2000	CF72J	---	5
	Landau	12/20/2000	CP44D	---	6
	Landau	3/14/2001	CV96E	---	7
	Landau	3/14/2001*	CV96G	---	8
	Landau	6/22/2001	DH51H	---	8
	Landau	9/26/2001	DQ61E	---	8
	Landau	12/19/2001	DY69G	---	7 J
	Landau	3/20/2002	EE79E	---	7
	Landau	6/19/2002	EM41F	---	5
	Landau	6/25/2003	FP47E/N	---	3
	Landau	6/9/2004	GS18C	---	8
	Landau	8/25/2009	PL85C	---	4.4
	Landau	06/19/2014	YO99C	---	4
	Landau	8/20/2019	19H0298	---	4.95
	Landau	8/20/2019*	19H0298	---	4.88
	Farallon	10/7/2021	MW-107R-20211007	6.58	5.96
	Farallon	4/29/2024	MW-107R-20240429	6.02	5.90 4.67 F1 H12
	Farallon	8/27/2024	MW-107R-082724	5.95	5.75
	Farallon	11/26/2024	MW-107R-20241126	6.09	6.33
	Farallon	2/24/2025	MW-107R-20250224	5.56	5.76
Site-Specific Cleanup Level for Groundwater ²				4	
Applicable MTCA Cleanup Levels for Groundwater - Puget Sound Background Threshold Value ³				8 ⁴	

Table 4
Summary of Groundwater Analytical Results for Arsenic
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Sampled By	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹	
				Total Arsenic	Dissolved Arsenic
MW-108R	Landau	6/16/1999	AK50G	---	10
	Landau	12/16/1999	BD02K	---	4
	Landau	3/22/2000	BK98F	---	< 8
	Landau	6/14/2000	BT43H	---	5
	Landau	9/27/2000	CF72E	---	< 2
	Landau	12/20/2000	CP44G	---	15
	Landau	3/14/2001	CV96F	---	4
	Landau	6/22/2001	DH51A	---	6
	Landau	9/26/2001	DQ61F	---	4
	Landau	12/19/2001	DY69H	---	9 J
	Landau	12/19/2001*	DY69I	---	14 J
	Landau	3/20/2002	EE79F	---	6
	Landau	6/19/2002	EM41G	---	5
	Landau	6/25/2003	FP47I/R	---	< 2
	Landau	6/9/2004	GS18H	---	< 5
	Landau	8/24/2009	PL72C	---	< 2
	Landau	06/19/2014	YO99B	---	7
	Landau	06/19/2014*	YO99A	---	7
	Landau	8/21/2019	19H0324	---	< 1.00
	Farallon	4/29/2024	MW-108R-20240429	< 1.00	< 1.00
	Farallon	8/27/2024	MW-108R-20240827	< 1.00	< 1.00
	Farallon	11/25/2024	MW-108R-20241125	< 1.00	< 1.00
	Farallon	2/24/2025	MW-108R-20250224	< 1.00	< 1.00
Site-Specific Cleanup Level for Groundwater ²				4	
Applicable MTCA Cleanup Levels for Groundwater - Puget Sound Background Threshold Value ^{3/4}				8 ⁴	

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

Farallon = Farallon Consulting, L.L.C.

Results with yellow shading indicate exceedance of regional background threshold value.⁴

Results highlighted **gold** denote concentrations exceeding regional background threshold value.⁴

< denotes analyte not detected at or exceeding the reporting limit listed.

F1 = sample was lab filtered and acid preserved prior to analysis

H12 = sample filtration performed >15 minutes after sample collection.

* denotes sample is a field duplicate.

J = result is an estimate

¹Analyzed by U.S. Environmental Protection Agency Method 200.8/6010/6020B.

Landau = Landau Associates, Inc.

²Site-specific groundwater cleanup levels from Table 1 of the Cleanup Action Plan for Union Station Property prepared by Landau Associates, Inc., July 28, 1997.

³Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Cleanup Levels for Groundwater,

Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013, unless otherwise noted.

⁴Puget Sound Basin background threshold value from *Natural Background Groundwater Arsenic Concentrations in Washington State, Study Results*, Washington State Department of Ecology, Publication No. 14-09-044, January 2022.

Table 5
Summary of Groundwater Field Parameters
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Measured By	Sample Date	Sample Identification	pH	Specific Conductance (µS/cm)	Temperature (°C)	Oxidation-Reduction Potential (mV)	Ferrous Iron (mg/L)	Manganese (mg/L)	Dissolved Oxygen (mg/L)
B-4	Landau	6/16/1999	AK50J	NM	NM	NM	---	---	---	---
	Landau	12/16/1999	BD02I	NM	NM	NM	---	---	---	---
	Landau	3/22/2000	BK98J	NM	NM	NM	---	---	---	---
	Landau	6/14/2000	BT43J	6.78	1,288	16.6	---	---	---	---
	Landau	9/27/2000	CF72G	7.04	1,340	17.1	---	---	---	---
	Landau	12/20/2000	CP44A	6.68	1,500	14.6	---	---	---	---
	Landau	3/14/2001	CV96H	NM	NM	NM	---	---	---	---
	Landau	6/22/2001	DH51I	NM	NM	NM	---	---	---	---
	Landau	9/26/2001	DQ61G	NM	NM	NM	---	---	---	---
	Landau	12/19/2001	DY69A	NM	NM	NM	---	---	---	---
	Landau	3/20/2002	EE79H	NM	NM	NM	---	---	---	---
	Landau	6/19/2002	EM41H	NM	NM	NM	---	---	---	---
	Landau	6/25/2003	FP47G/P	NM	NM	NM	---	---	---	---
	Landau	6/9/2004	GS18I	NM	NM	NM	---	---	---	---
B-4R	Landau	8/25/2009	PL85B	7.36	1,398	15.01	---	---	---	---
	Landau	06/19/2014	YO99D	6.68	763	15.48	---	---	---	---
	Landau	8/20/2019	19H0298	6.97	741	16.7	-31.0	---	---	---
	Farallon	10/7/2021	B-4R-20211007	6.70	1,271	17.1	-69.5	---	---	---
	Farallon	4/29/2024	B-4R-20240429	6.84	814	16.0	-53.7	1.0	0.3	2.93
	Farallon	8/27/2024	B-4R-20240827	6.73	714	17.8	66.9	1.0	0.4	2.92
	Farallon	11/25/2024	B-4R-20241125	6.80	673	16.7	170.7	1.5	0.3	5.45
	Farallon	2/25/2025	B-4R-20250225	6.45	734	16.1	62.5	1.50	0.45	1.47
B-6	Landau	6/16/1999	AK50H	7.27	1,770	17.3	---	---	---	---
B-6R	Landau	12/16/1999	BD02H	6.76	1,440	16.9	---	---	---	---
	Landau	3/22/2000	BK98H	6.99	1,700	15.9	---	---	---	---
	Landau	3/22/2000*	BK98I	6.99	1,660	15.9	---	---	---	---
	Landau	6/14/2000	BT43I	7.18	1,301	16.9	---	---	---	---
	Landau	9/27/2000	CF72F	6.59	1,685	17.7	---	---	---	---
	Landau	12/20/2000	CP44H	6.19	2,693	14.5	---	---	---	---
	Landau	3/14/2001	CV96I	7.90	2,720	15.1	---	---	---	---
	Landau	6/22/2001	DH51D	6.66	1,698	16.8	---	---	---	---
	Landau	9/26/2001	DQ61H	6.75	2,370	16.1	---	---	---	---
	Landau	12/19/2001	DY69B	NM	NM	NM	---	---	---	---
	Landau	3/20/2002	EE79I	6.65	1,340	15.0	---	---	---	---
	Landau	3/20/2002*	EE79G	6.90	1,733	14.1	---	---	---	---
	Landau	6/19/2002	EM41I	6.95	1,348	16.1	---	---	---	---
	Landau	6/25/2003	FP47H/Q	7.06	1,708	16.8	---	---	---	---
	Landau	6/9/2004	GS18J	6.89	1,570	16.6	---	---	---	---
	Landau	8/25/2009	PL85A	7.39	2,392	15.5	---	---	---	---
	Landau	06/19/2014	YO99E	6.87	995	16.4	---	---	---	---
	Landau	8/20/2019	19H0298	6.92	1,061	16.4	35.8	---	---	---
	Farallon	10/7/2021	B-6R-20211007	6.66	1,647	16.4	-82.0	---	---	---
	Farallon	4/29/2024	B-6R-20240429	6.65	2,159	14.9	-50.6	3.5	0.0	0.55
	Farallon	8/27/2024	B-6R-082724	6.73	1,044	17.45	-43.6	2.5	0.2	0.47
	Farallon	11/25/2024	B-6R-20241125	6.80	1,351	15.5	-67.9	2.0	0.0	1.19
	Farallon	2/24/2025	B-6R-20250224	6.42	2,362	15.3	-53.3	6.00	0.30	2.35

Table 5
Summary of Groundwater Field Parameters
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Measured By	Sample Date	Sample Identification	pH	Specific Conductance (µS/cm)	Temperature (°C)	Oxidation-Reduction Potential (mV)	Ferrous Iron (mg/L)	Manganese (mg/L)	Dissolved Oxygen (mg/L)
MW-101R	Landau	6/16/1999	AK50A	6.13	2,200	14.3	---	---	---	---
	Landau	6/16/1999*	AK50B	6.13	2,200	14.3	---	---	---	---
	Landau	12/16/1999	BD02A	5.75	2,490	14.3	---	---	---	---
	Landau	3/22/2000	BK98G	6.83	3,680	12.9	---	---	---	---
	Landau	6/14/2000	BT43A	6.93	1,650	13.4	---	---	---	---
	Landau	9/27/2000	CF72H	6.65	2,410	16.6	---	---	---	---
	Landau	12/20/2000	CP44B	6.49	2,580	13.9	---	---	---	---
	Landau	3/14/2001	CV96A	7.46	1,918	12.8	---	---	---	---
	Landau	6/22/2001	DH51F	6.83	2,535	14.8	---	---	---	---
	Landau	6/22/2001*	DH51E	6.81	2,908	14.9	---	---	---	---
	Landau	9/26/2001	DQ61A	7.25	2,310	16.4	---	---	---	---
	Landau	12/19/2001	DY69C	NM	NM	NM	---	---	---	---
	Landau	3/20/2002	EE79A	6.70	2,540	14.2	---	---	---	---
	Landau	6/19/2002	EM41A	6.92	1,860	12.8	---	---	---	---
	Landau	6/19/2002*	EM41B	6.98	2,418	13.6	---	---	---	---
	Landau	6/25/2003	FP47A/J	6.96	1,510	14.8	---	---	---	---
	Landau	6/25/2003*	FP47F/O	6.96	1,510	14.8	---	---	---	---
	Landau	6/9/2004	GS18F	6.67	2,012	15.3	---	---	---	---
	Landau	6/9/2004*	GS18G	6.67	2,012	15.3	---	---	---	---
	Landau	8/24/2009	PL72A	6.88	2,899	15.0	---	---	---	---
	Landau	8/24/2009*	PL72E	6.88	2,899	15.0	---	---	---	---
	Landau	06/18/2014	YO69E	8.15	2,405	14.3	---	---	---	---
	Landau	8/21/2019	19H0324	6.74	2,276	17.4	-43.3	---	---	---
	Farallon	10/7/2021	MW-101R-20211007	6.47	2,179	16.6	-240.1	---	---	---
	Farallon	4/29/2024	MW-101R-20240429	6.86	1,000	13.7	-37.8	2.0	0.8	0.49
	Farallon	8/27/2024	MW-101R-20240827	6.68	1,754	16.6	-87.2	4.5	1.0	0.35
	Farallon	11/26/2024	MW-101R-20241126	6.81	1,558	14.9	-114.2	1.0	1.0	1.68
	Farallon	2/24/2025	MW-101R-20250224	6.46	2,396	13.4	-96.2	6.50	0.60	3.19

Table 5
Summary of Groundwater Field Parameters
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Measured By	Sample Date	Sample Identification	pH	Specific Conductance (µS/cm)	Temperature (°C)	Oxidation-Reduction Potential (mV)	Ferrous Iron (mg/L)	Manganese (mg/L)	Dissolved Oxygen (mg/L)
MW-102R	Landau	6/16/1999	AK50C	6.41	3,420	15.1	---	---	---	---
	Landau	12/16/1999	BD02C	5.85	2,990	15.1	---	---	---	---
	Landau	12/16/1999*	BD02B	5.85	2,990	15.2	---	---	---	---
	Landau	3/22/2000	BK98D	6.89	3,960	14.1	---	---	---	---
	Landau	6/14/2000	BT43B	7.11	3,010	14.8	---	---	---	---
	Landau	6/14/2000*	BT43E	7.11	3,010	14.8	---	---	---	---
	Landau	9/27/2000	CF72A	6.76	3,470	17.3	---	---	---	---
	Landau	12/20/2000	CP44E	6.02	3,750	15.1	---	---	---	---
	Landau	12/20/2000*	CP44I	6.02	3,740	15.1	---	---	---	---
	Landau	3/14/2001	CV96B	7.23	3,920	14.5	---	---	---	---
	Landau	6/22/2001	DH51B	6.60	3,875	16.0	---	---	---	---
	Landau	9/26/2001	DQ61B	6.53	3,750	16.2	---	---	---	---
	Landau	9/26/2001*	DQ61I	6.53	3,750	16.1	---	---	---	---
	Landau	12/19/2001	DY69D	6.47	3,740	15.1	---	---	---	---
	Landau	3/20/2002	EE79B	6.64	3,090	14.2	---	---	---	---
	Landau	6/19/2002	EM41C	6.70	3,753	15.0	---	---	---	---
	Landau	6/25/2003	FP47B/K	6.80	2,710	15.6	---	---	---	---
	Landau	6/9/2004	GS18E	6.65	2,415	15.9	---	---	---	---
	Landau	8/24/2009	PL72B	6.43	3,262	16.2	---	---	---	---
	Landau	06/18/2014	YO69D	8.33	2,391	15.3	---	---	---	---
	Landau	8/21/2019	19H0324	6.90	2,725	17.6	-51.3	---	---	---
	Farallon	10/7/2021	MW-102R-20211007	6.45	3,589	17.6	-42.2	---	---	---
	Farallon	4/29/2024	MW-102R-20240429	6.57	3,280	14.6	-39.8	3.5	0.8	0.48
	Farallon	8/27/2024	MW-102R-08272024	6.62	3,159	16.4	-81.2	1	0.8	0.52
	Farallon	11/25/2024	MW-102R-20241125	6.78	2,861	16.2	-101.9	1.5	0.2	0.83
	Farallon	2/24/2025	MW-102R-20250224	6.40	2,787	15.3	-13.0	6.25	0.00	1.08
MW-104	Landau	6/16/1999	AK50E	6.98	1,070	16.7	---	---	---	---
	Landau	12/16/1999	BD02E	5.75	832	25.5	---	---	---	---
	Landau	3/22/2000	BK98B	7.23	1,020	14.1	---	---	---	---
	Landau	6/14/2000	BT43D	7.17	814	15.1	---	---	---	---
	Landau	9/27/2000	CF72C	6.94	8,635	16.8	---	---	---	---
	Landau	12/20/2000	CP44F	6.86	990	15.3	---	---	---	---
	Landau	3/14/2001	CV96C	7.59	1,170	13.1	---	---	---	---
	Landau	6/22/2001	DH51C	6.74	955	14.7	---	---	---	---
	Landau	9/26/2001	DQ61C	7.26	1,020	16.5	---	---	---	---
	Landau	12/19/2001	DY69E	6.82	1,270	13.2	---	---	---	---
	Landau	3/20/2002	EE79C	7.27	920	11.4	---	---	---	---
	Landau	6/19/2002	EM41D	7.32	1,088	14.6	---	---	---	---
	Landau	6/25/2003	FP47C/L	7.26	641	15.4	---	---	---	---
	Landau	6/9/2004	GS18B	6.86	930	15.2	---	---	---	---
	Landau	8/24/2009	PL72D	7.88	1,314	16.6	---	---	---	---
	Landau	06/18/2014	YO69B	8.13	724	15.9	---	---	---	---
	Landau	8/21/2019	19H0324	6.92	701	18.2	-89.4	---	---	---
	Farallon	4/29/2024	MW-104-20240429	7.18	711	15.9	-94.4	0.0	0.0	0.52
	Farallon	8/27/2024	MW-104-082724	7.07	676	17.1	-82.3	1.0	0.0	0.56
	Farallon	11/25/2024	MW-104-20241125	7.02	585	17.3	157.3	0.5	0.0	2.00
	Farallon	2/24/2025	MW-104-20250224	7.00	667	15.1	29.1	1.00	0.00	1.54

Table 5
Summary of Groundwater Field Parameters
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Measured By	Sample Date	Sample Identification	pH	Specific Conductance (µS/cm)	Temperature (°C)	Oxidation-Reduction Potential (mV)	Ferrous Iron (mg/L)	Manganese (mg/L)	Dissolved Oxygen (mg/L)
MW-105	Landau	6/16/1999	AK50I	5.95	4,850	17.7	---	---	---	---
	Landau	12/16/1999	BD02F	5.47	3,740	16.2	---	---	---	---
	Landau	3/22/2000	BK98C	6.97	6,480	16.0	---	---	---	---
	Landau	6/14/2000	BT43F	6.84	4,660	17.0	---	---	---	---
	Landau	9/27/2000	CF72I	6.62	6,043	18.4	---	---	---	---
	Landau	9/27/2000*	CF72D	6.62	6,043	18.4	---	---	---	---
	Landau	12/20/2000	CP44C	6.74	5,205	17.0	---	---	---	---
	Landau	3/14/2001	CV96D	7.26	7,310	15.8	---	---	---	---
	Landau	6/22/2001	DH51G	7.01	7,525	17.6	---	---	---	---
	Landau	9/26/2001	DQ61D	6.72	6,230	18.9	---	---	---	---
	Landau	12/19/2001	DY69F	6.73	5,850	16.6	---	---	---	---
	Landau	3/20/2002	EE79D	6.87	5,460	15.8	---	---	---	---
	Landau	6/19/2002	EM41E	6.94	6,830	17.0	---	---	---	---
	Landau	6/25/2003	FP47D/M	7.08	6,610	17.3	---	---	---	---
	Landau	6/9/2004	GS18D	7	5,262	17.2	---	---	---	---
	Landau	8/25/2009	PL85D	NM	NM	NM	---	---	---	---
	Landau	06/18/2014	YO69C	8.34	4,239	17.7	---	---	---	---
	Landau	8/21/2019	19H0324	7.06	6,446	18.3	-40.3	---	---	---
	Farallon	10/7/2021	MW-105-20211007	6.53	4,002	18.7	-217.5	---	---	---
	Farallon	4/29/2024	MW-105-20240429	6.88	4,946	16.5	-104.1	2.5	0.4	0.38
MW-107R	Landau	6/16/1999	AK50F	6.42	4,190	13.4	---	---	---	---
	Landau	12/16/1999	BD02G	6.02	5,070	13.5	---	---	---	---
	Landau	3/22/2000	BK98A	6.94	3,520	12.3	---	---	---	---
	Landau	6/14/2000	BT43G	7.22	1,840	13.1	---	---	---	---
	Landau	9/27/2000	CF72J	6.74	3,778	14.4	---	---	---	---
	Landau	12/20/2000	CP44D	6.29	3,423	13.2	---	---	---	---
	Landau	3/14/2001	CV96E	8.22	4,350	12.3	---	---	---	---
	Landau	3/14/2001*	CV96G	8.24	4,350	12.3	---	---	---	---
	Landau	6/22/2001	DH51H	6.84	3,550	13.6	---	---	---	---
	Landau	9/26/2001	DQ61E	7.31	2,900	14.6	---	---	---	---
	Landau	12/19/2001	DY69G	6.79	3,710	12.4	---	---	---	---
	Landau	3/20/2002	EE79E	6.85	2,780	11.9	---	---	---	---
	Landau	6/19/2002	EM41F	6.90	3,303	13.0	---	---	---	---
	Landau	6/25/2003	FP47E/N	6.94	2,630	14.0	---	---	---	---
	Landau	6/9/2004	GS18C	6.85	2,792	14.0	---	---	---	---
	Landau	8/25/2009	PL85C	7.36	3,107	13.1	---	---	---	---
	Landau	06/19/2014	YO99C	6.67	1,208	13.0	---	---	---	---
	Landau	8/20/2019	19H0298	6.73	1,222	13.7	-47.0	---	---	---
	Landau	8/20/2019*	19H0298	6.73	1,223	13.7	-50.4	---	---	---
	Farallon	10/7/2021	MW-107R-20211007	6.67	2,227	14.3	-113.4	---	---	---
	Farallon	4/29/2024	MW-107R-20240429	7.05	996	12.5	3.9	1.5	0.2	0.63
	Farallon	8/27/2024	MW-107R-082724	6.81	1,602	14.2	-58.6	2	0.0	0.36
	Farallon	11/26/2024	MW-107R-20241126	6.92	1,503	13.2	-119.3	1.0	0.2	1.36
	Farallon	2/24/2025	MW-107R-20250224	6.63	2,417	12.6	-112.5	4.50	0.00	2.13

Table 5
Summary of Groundwater Field Parameters
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Measured By	Sample Date	Sample Identification	pH	Specific Conductance (µS/cm)	Temperature (°C)	Oxidation-Reduction Potential (mV)	Ferrous Iron (mg/L)	Manganese (mg/L)	Dissolved Oxygen (mg/L)
MW-108R	Landau	6/16/1999	AK50G	6.06	1,933	14.0	---	---	---	---
	Landau	12/16/1999	BD02K	5.19	1,830	14.1	---	---	---	---
	Landau	3/22/2000	BK98F	6.70	1,970	13.1	---	---	---	---
	Landau	6/14/2000	BT43H	6.59	1,710	14.0	---	---	---	---
	Landau	9/27/2000	CF72E	6.35	15,125	15.0	---	---	---	---
	Landau	12/20/2000	CP44G	6.67	19,350	14.5	---	---	---	---
	Landau	3/14/2001	CV96F	7.12	19,675	13.2	---	---	---	---
	Landau	6/22/2001	DH51A	6.72	18,925	15.0	---	---	---	---
	Landau	9/26/2001	DQ61F	7.39	18,800	16.2	---	---	---	---
	Landau	12/19/2001	DY69H	6.76	19,300	13.6	---	---	---	---
	Landau	12/19/2001*	DY69I	6.77	19,300	13.4	---	---	---	---
	Landau	3/20/2002	EE79F	6.72	1,800	13.1	---	---	---	---
	Landau	6/19/2002	EM41G	6.73	2,548	14.4	---	---	---	---
	Landau	6/25/2003	FP47I/R	6.71	21,100	15.2	---	---	---	---
	Landau	6/9/2004	GS18H	6.76	11,900	15.4	---	---	---	---
	Landau	8/24/2009	PL72C	6.45	16,760	15.5	---	---	---	---
	Landau	06/19/2014	YO99B	6.62	12,780	16.1	---	---	---	---
	Landau	06/19/2014*	YO99A	6.62	12,748	16.1	---	---	---	---
	Landau	8/21/2019	19H0324	7.06	14,461	17.5	-40.6	---	---	---
	Farallon	4/29/2024	MW-108R-20240429	6.84	8,585	15.0	-6.5	1.0	0.0	0.48
	Farallon	8/27/2024	MW-108R-20240827	6.65	13,454	17.0	-76.9	3.0	0.0	0.31
	Farallon	11/25/2024	MW-108R-20241125	6.77	11,743	15.1	-108.6	2.0	0.0	0.90
	Farallon	2/24/2025	MW-108R-20250224	6.44	21,695	14.8	-115.3	4.00	0.00	1.86

NOTES:

* denotes sample is a field duplicate.

Measurements collected in the field with a multi-parameter water quality meter.

Farallon = Farallon Consulting, L.L.C.

J = result is an estimate

Landau = Landau Associates, Inc.

mg/L = milligrams per liter

mV = millivolts

NM = not measured

µS/cm = microsiemens per centimeter

Table 6
Summary of Monitored Natural Attenuation Parameters
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Measured By	Sample Date	Sample Identification	Total Dissolved Solids (mg/L) ¹	Total Suspended Solids (mg/L) ²	Alkalinity (mg CaCO ₃ /L) ³	Bicarbonate Alkalinity (mg CaCO ₃ /L) ³	Carbonate Alkalinity (mg CaCO ₃ /L) ³	Hydroxide Alkalinity (mg CaCO ₃ /L) ³	Nitrate (mg/L) ⁴	Sulfate (mg/L) ⁴	Methane mg/L ⁵
B-4	Landau	6/16/1999	AK50J	730	63	---	---	---	---	---	---	---
	Landau	12/16/1999	BD02I	820	680	---	---	---	---	---	---	---
	Landau	3/22/2000	BK98J	720	930	---	---	---	---	---	---	---
	Landau	6/14/2000	BT43J	NM	NM	---	---	---	---	---	---	---
	Landau	9/27/2000	CF72G	670	620	---	---	---	---	---	---	---
	Landau	12/20/2000	CP44A	750	440	---	---	---	---	---	---	---
	Landau	3/14/2001	CV96H	820 J	1,800	---	---	---	---	---	---	---
	Landau	6/22/2001	DH51I	810 J	1,000 J	---	---	---	---	---	---	---
	Landau	9/26/2001	DQ61G	780 J	400	---	---	---	---	---	---	---
	Landau	12/19/2001	DY69A	770	1,400 J	---	---	---	---	---	---	---
	Landau	3/20/2002	EE79H	740	920	---	---	---	---	---	---	---
	Landau	6/19/2002	EM41H	790	680	---	---	---	---	---	---	---
	Landau	6/25/2003	FP47G/P	790	270	---	---	---	---	---	---	---
	Landau	6/9/2004	GS18I	751	938	---	---	---	---	---	---	---
B-4R	Landau	8/25/2009	PL85B	538	8,300	---	---	---	---	---	---	---
	Landau	06/19/2014	YO99D	498	4,130	---	---	---	---	---	---	---
	Landau	8/20/2019	19H0298	530	4,600	---	---	---	---	---	---	---
	Farallon	10/7/2021	B-4R-20211007	---	---	---	---	---	---	---	---	---
	Farallon	4/29/2024	B-4R-20240429	494	5.00 T	380	380	< 20.0	< 20.0	< 0.250	< 1.00	3.5
	Farallon	8/27/2024	B-4R-20240827	451	65.0 B	361	361	< 20.0	< 20.0	< 0.250	< 1.00	4.4
	Farallon	11/25/2024	B-4R-20241125	464	5.00 T	371	371	< 20.0	< 20.0	< 0.250	< 1.00	4.2
B-6	Landau	2/25/2025	B-4R-20250225	493	< 5.00 T	372	372	< 20.0	< 20.0	< 0.250	< 1.00	4.4
	Landau	6/16/1999	AK50H	890	14	---	---	---	---	---	---	---
B-6R	Landau	12/16/1999	BD02H	830	680	---	---	---	---	---	---	---
	Landau	3/22/2000	BK98H	900	460	---	---	---	---	---	---	---
	Landau	3/22/2000*	BK98I	900	460	---	---	---	---	---	---	---
	Landau	6/14/2000	BT43I	820 J	890	---	---	---	---	---	---	---
	Landau	9/27/2000	CF72F	1000	1,600	---	---	---	---	---	---	---
	Landau	12/20/2000	CP44H	800	1,500	---	---	---	---	---	---	---
	Landau	3/14/2001	CV96I	1,100 J	2,400	---	---	---	---	---	---	---
	Landau	6/22/2001	DH51D	1,200 J	370 J	---	---	---	---	---	---	---
	Landau	9/26/2001	DQ61H	1,100 J	500	---	---	---	---	---	---	---
	Landau	12/19/2001	DY69B	780	1,400 J	---	---	---	---	---	---	---
	Landau	3/20/2002	EE79I	780 J	360 J	---	---	---	---	---	---	---
	Landau	3/20/2002*	EE79G	1,100 J	790 J	---	---	---	---	---	---	---
	Landau	6/19/2002	EM41I	890	1,100	---	---	---	---	---	---	---
	Landau	6/25/2003	FP47H/Q	790	430	---	---	---	---	---	---	---
	Landau	6/9/2004	GS18J	923	940	---	---	---	---	---	---	---
	Landau	8/25/2009	PL85A	891	1,040	---	---	---	---	---	---	---
	Landau	06/19/2014	YO99E	518	927	---	---	---	---	---	---	---
	Landau	8/20/2019	19H0298	666	324	---	---	---	---	---	---	---
	Farallon	10/7/2021	B-6R-20211007	---	---	---	---	---	---	---	---	---
	Farallon	4/29/2024	B-6R-20240429	1,180	31.0	976	976	< 20.0	< 20.0	< 0.250	< 1.00	11
	Farallon	8/27/2024	B-6R-082724	663	13.0 T	531	531	< 20.0	< 20.0	0.638	< 1.00	7.5
	Farallon	11/25/2024	B-6R-20241125	888	12.0 T	742	742	< 20.0	< 20.0	< 0.250	< 1.00	11
	Farallon	2/24/2025	B-6R-20250224	1,020	15.0 T	862	862	< 20.0	< 20.0	< 0.250	< 1.00	9.8

Table 6
Summary of Monitored Natural Attenuation Parameters
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Measured By	Sample Date	Sample Identification	Total Dissolved Solids (mg/L) ¹	Total Suspended Solids (mg/L) ²	Alkalinity (mg CaCO ₃ /L) ³	Bicarbonate Alkalinity (mg CaCO ₃ /L) ³	Carbonate Alkalinity (mg CaCO ₃ /L) ³	Hydroxide Alkalinity (mg CaCO ₃ /L) ³	Nitrate (mg/L) ⁴	Sulfate (mg/L) ⁴	Methane mg/L ⁵
MW-101R	Landau	6/16/1999	AK50A	1,300	80	---	---	---	---	---	---	---
	Landau	6/16/1999*	AK50B	1,300	76	---	---	---	---	---	---	---
	Landau	12/16/1999	BD02A	1,400	120	---	---	---	---	---	---	---
	Landau	3/22/2000	BK98G	1,300	120	---	---	---	---	---	---	---
	Landau	6/14/2000	BT43A	1,100 J	79	---	---	---	---	---	---	---
	Landau	9/27/2000	CF72H	960	85	---	---	---	---	---	---	---
	Landau	12/20/2000	CP44B	1,100	74	---	---	---	---	---	---	---
	Landau	3/14/2001	CV96A	1,000 J	76	---	---	---	---	---	---	---
	Landau	6/22/2001	DH51F	1,000 J	76 J	---	---	---	---	---	---	---
	Landau	6/22/2001*	DH51E	1,100 J	98 J	---	---	---	---	---	---	---
	Landau	9/26/2001	DQ61A	1,000 J	79	---	---	---	---	---	---	---
	Landau	12/19/2001	DY69C	1,100	65 J	---	---	---	---	---	---	---
	Landau	3/20/2002	EE79A	970	71	---	---	---	---	---	---	---
	Landau	6/19/2002	EM41A	1,000	72	---	---	---	---	---	---	---
	Landau	6/19/2002*	EM41B	1,000	72	---	---	---	---	---	---	---
	Landau	6/25/2003	FP47A/J	960	79	---	---	---	---	---	---	---
	Landau	6/25/2003*	FP47F/O	950	78	---	---	---	---	---	---	---
	Landau	6/9/2004	GS18F	1,250	284 J	---	---	---	---	---	---	---
	Landau	6/9/2004*	GS18G	1,390	90.1 J	---	---	---	---	---	---	---
	Landau	8/24/2009	PL72A	1,130	60.4	---	---	---	---	---	---	---
	Landau	8/24/2009*	PL72E	1,080	59.3	---	---	---	---	---	---	---
	Landau	06/18/2014	YO69E	1,610	357	---	---	---	---	---	---	---
	Landau	8/21/2019	19H0324	1,480	459	---	---	---	---	---	---	---
	Farallon	10/7/2021	MW-101R-20211007	---	---	---	---	---	---	---	---	---
	Farallon	4/29/2024	MW-101R-20240429	996	48.0	782	782	< 20.0	< 20.0	< 0.250	< 1.00	8.3
	Farallon	8/27/2024	MW-101R-20240827	1,050	79.0 B	816	816	< 20.0	< 20.0	< 0.250	< 1.00	10
	Farallon	11/26/2024	MW-101R-20241126	1,100	67.0	830	830	< 20.0	< 20.0	< 0.250	< 1.00	7.9
	Farallon	2/24/2025	MW-101R-20250224	1,080	63.0	783	783	< 20.0	< 20.0	< 0.250	< 1.00	9.1

Table 6
Summary of Monitored Natural Attenuation Parameters
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Measured By	Sample Date	Sample Identification	Total Dissolved Solids (mg/L) ¹	Total Suspended Solids (mg/L) ²	Alkalinity (mg CaCO ₃ /L) ³	Bicarbonate Alkalinity (mg CaCO ₃ /L) ³	Carbonate Alkalinity (mg CaCO ₃ /L) ³	Hydroxide Alkalinity (mg CaCO ₃ /L) ³	Nitrate (mg/L) ⁴	Sulfate (mg/L) ⁴	Methane mg/L ⁵
MW-102R	Landau	6/16/1999	AK50C	1,500	43	---	---	---	---	---	---	---
	Landau	12/16/1999	BD02C	1,700	57	---	---	---	---	---	---	---
	Landau	12/16/1999*	BD02B	1,600	58	---	---	---	---	---	---	---
	Landau	3/22/2000	BK98D	1,800	65	---	---	---	---	---	---	---
	Landau	6/14/2000	BT43B	1,900 J	60	---	---	---	---	---	---	---
	Landau	6/14/2000*	BT43E	1,900 J	62	---	---	---	---	---	---	---
	Landau	9/27/2000	CF72A	1,900	74	---	---	---	---	---	---	---
	Landau	12/20/2000	CP44E	1,800	56	---	---	---	---	---	---	---
	Landau	12/20/2000*	CP44I	1,700	54	---	---	---	---	---	---	---
	Landau	3/14/2001	CV96B	2,100 J	53	---	---	---	---	---	---	---
	Landau	6/22/2001	DH51B	2,100 J	67 J	---	---	---	---	---	---	---
	Landau	9/26/2001	DQ61B	2,100 J	72	---	---	---	---	---	---	---
	Landau	9/26/2001*	DQ61I	2,000 J	83	---	---	---	---	---	---	---
	Landau	12/19/2001	DY69D	1,900	61 J	---	---	---	---	---	---	---
	Landau	3/20/2002	EE79B	1,800	51	---	---	---	---	---	---	---
	Landau	6/19/2002	EM41C	1,900	41	---	---	---	---	---	---	---
	Landau	6/25/2003	FP47B/K	1,500	51	---	---	---	---	---	---	---
	Landau	6/9/2004	GS18E	1,590	40.6	---	---	---	---	---	---	---
	Landau	8/24/2009	PL72B	1,700	45.5	---	---	---	---	---	---	---
	Landau	06/18/2014	YO69D	1,530	53.4	---	---	---	---	---	---	---
	Landau	8/21/2019	19H0324	1,630	98	---	---	---	---	---	---	---
MW-104	Farallon	10/7/2021	MW-102R-20211007	---	---	---	---	---	---	---	---	---
	Farallon	4/29/2024	MW-102R-20240429	1,860	18.0 T	769	769	< 20.0	< 20.0	< 0.250	< 1.00	8.4
	Farallon	8/27/2024	MW-102R-08272024	1,720	35.0	729	729	< 20.0	< 20.0	< 0.250	< 1.00	9.7
	Farallon	11/25/2024	MW-102R-20241125	1,760	46.0	727	727	< 20.0	< 20.0	< 0.250	< 1.00	13
	Farallon	2/24/2025	MW-102R-20250224	2,260	44.0	720	720	< 20.0	< 20.0	< 0.250	< 1.00	9.3
	Landau	6/16/1999	AK50E	600	16	---	---	---	---	---	---	---
	Landau	12/16/1999	BD02E	600	41	---	---	---	---	---	---	---
	Landau	3/22/2000	BK98B	560	16	---	---	---	---	---	---	---
	Landau	6/14/2000	BT43D	600 J	9.3	---	---	---	---	---	---	---
	Landau	9/27/2000	CF72C	510	18	---	---	---	---	---	---	---
	Landau	12/20/2000	CP44F	450	25	---	---	---	---	---	---	---
	Landau	3/14/2001	CV96C	570 J	12	---	---	---	---	---	---	---
	Landau	6/22/2001	DH51C	550 J	19 J	---	---	---	---	---	---	---
	Landau	9/26/2001	DQ61C	530 J	5.1	---	---	---	---	---	---	---
	Landau	12/19/2001	DY69E	550	11 J	---	---	---	---	---	---	---
	Landau	3/20/2002	EE79C	530	19	---	---	---	---	---	---	---
	Landau	6/19/2002	EM41D	530	4.9	---	---	---	---	---	---	---
	Landau	6/25/2003	FP47C/L	510	6.2	---	---	---	---	---	---	---
	Landau	6/9/2004	GS18B	500	7.9	---	---	---	---	---	---	---
	Landau	8/24/2009	PL72D	502	14.8	---	---	---	---	---	---	---
	Landau	06/18/2014	YO69B	455	4,630	---	---	---	---	---	---	---
	Landau	8/21/2019	19H0324	437	17	---	---	---	---	---	---	---
	Farallon	4/29/2024	MW-104-20240429	425	< 5.00 T	330	330	< 20.0	< 20.0	< 0.250	4.72	8.5
	Farallon	8/27/2024	MW-104-082724	401	10.0 T	316	316	< 20.0	< 20.0	< 0.250	3.72	9.1
	Farallon	11/25/2024	MW-104-20241125	427	5.00 T	328	328	< 20.0	< 20.0	< 0.250	3.91	8.7
	Farallon	2/24/2025	MW-104-20250224	399	9.00 T	313	313	< 20.0	< 20.0	< 0.250	5.47	8.3

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Summary of Monitored Natural Attenuation Parameters
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Measured By	Sample Date	Sample Identification	Total Dissolved Solids (mg/L) ¹	Total Suspended Solids (mg/L) ²	Alkalinity (mg CaCO ₃ /L) ³	Bicarbonate Alkalinity (mg CaCO ₃ /L) ³	Carbonate Alkalinity (mg CaCO ₃ /L) ³	Hydroxide Alkalinity (mg CaCO ₃ /L) ³	Nitrate (mg/L) ⁴	Sulfate (mg/L) ⁴	Methane mg/L ⁵
MW-105	Landau	6/16/1999	AK50I	2,400	65	---	---	---	---	---	---	---
	Landau	12/16/1999	BD02F	2,100	140	---	---	---	---	---	---	---
	Landau	3/22/2000	BK98C	2,800	73	---	---	---	---	---	---	---
	Landau	6/14/2000	BT43F	3,900 J	87	---	---	---	---	---	---	---
	Landau	9/27/2000	CF72I	3,400	80	---	---	---	---	---	---	---
	Landau	9/27/2000*	CF72D	3,400	78	---	---	---	---	---	---	---
	Landau	12/20/2000	CP44C	2,200	66	---	---	---	---	---	---	---
	Landau	3/14/2001	CV96D	3,400 J	83	---	---	---	---	---	---	---
	Landau	6/22/2001	DH51G	3,200 J	85 J	---	---	---	---	---	---	---
	Landau	9/26/2001	DQ61D	3,400 J	100	---	---	---	---	---	---	---
	Landau	12/19/2001	DY69F	2,700	110 J	---	---	---	---	---	---	---
	Landau	3/20/2002	EE79D	2,700	97	---	---	---	---	---	---	---
	Landau	6/19/2002	EM41E	3,300	88	---	---	---	---	---	---	---
	Landau	6/25/2003	FP47D/M	2,400	98	---	---	---	---	---	---	---
	Landau	6/9/2004	GS18D	3,510	44.9	---	---	---	---	---	---	---
	Landau	8/25/2009	PL85D	3,100	91.1	---	---	---	---	---	---	---
	Landau	06/18/2014	YO69C	2,800	996	---	---	---	---	---	---	---
	Landau	8/21/2019	19H0324	3,860	46	---	---	---	---	---	---	---
	Farallon	10/7/2021	MW-105-20211007	---	---	---	---	---	---	---	---	---
	Farallon	4/29/2024	MW-105-20240429	2,990	7.00 T	1,270	1,270	< 20.0	< 20.0	< 0.250	< 1.00	8.4
MW-107R	Landau	6/16/1999	AK50F	2,400	62	---	---	---	---	---	---	---
	Landau	12/16/1999	BD02G	2,000	84	---	---	---	---	---	---	---
	Landau	3/22/2000	BK98A	1,800	62	---	---	---	---	---	---	---
	Landau	6/14/2000	BT43G	2,000 J	54	---	---	---	---	---	---	---
	Landau	9/27/2000	CF72J	1,800	49	---	---	---	---	---	---	---
	Landau	12/20/2000	CP44D	1,700	59	---	---	---	---	---	---	---
	Landau	3/14/2001	CV96E	1,900 J	56	---	---	---	---	---	---	---
	Landau	3/14/2001*	CV96G	1,800 J	53	---	---	---	---	---	---	---
	Landau	6/22/2001	DH51H	1,900 J	65 J	---	---	---	---	---	---	---
	Landau	9/26/2001	DQ61E	1,300 J	63	---	---	---	---	---	---	---
	Landau	12/19/2001	DY69G	1,700	53 J	---	---	---	---	---	---	---
	Landau	3/20/2002	EE79E	1,500	46	---	---	---	---	---	---	---
	Landau	6/19/2002	EM41F	1,800	48	---	---	---	---	---	---	---
	Landau	6/25/2003	FP47E/N	1,500	53	---	---	---	---	---	---	---
	Landau	6/9/2004	GS18C	1,550	45.8	---	---	---	---	---	---	---
	Landau	8/25/2009	PL85C	1,250	38.4	---	---	---	---	---	---	---
	Landau	06/19/2014	YO99C	917	28.6	---	---	---	---	---	---	---
	Landau	8/20/2019	19H0298	900	32	---	---	---	---	---	---	---
	Landau	8/20/2019*	19H0298	909	30	---	---	---	---	---	---	---
	Farallon	10/7/2021	MW-107R-20211007	---	---	---	---	---	---	---	---	---
	Farallon	4/29/2024	MW-107R-20240429	1,020	9.00 T	794	794	< 20.0	< 20.0	< 0.250	< 1.00	13
	Farallon	8/27/2024	MW-107R-082724	1020	9.00 T	775	775	< 20.0	< 20.0	< 0.250	< 1.00	12
	Farallon	11/26/2024	MW-107R-20241126	1,070	15.0 T	800	800	< 20.0	< 20.0	< 0.250	< 1.00	15
	Farallon	2/24/2025	MW-107R-20250224	1,120	18.0 T	802	802	< 20.0	< 20.0	< 0.250	< 1.00	12

Table 6
Summary of Monitored Natural Attenuation Parameters
Union Station Property
Seattle, Washington
Farallon PN: 2644-001

Sample Location	Measured By	Sample Date	Sample Identification	Total Dissolved Solids (mg/L) ¹	Total Suspended Solids (mg/L) ²	Alkalinity (mg CaCO ₃ /L) ³	Bicarbonate Alkalinity (mg CaCO ₃ /L) ³	Carbonate Alkalinity (mg CaCO ₃ /L) ³	Hydroxide Alkalinity (mg CaCO ₃ /L) ³	Nitrate (mg/L) ⁴	Sulfate (mg/L) ⁴	Methane mg/L ⁵
MW-108R	Landau	6/16/1999	AK50G	10,000	86	---	---	---	---	---	---	---
	Landau	12/16/1999	BD02K	10,000	110	---	---	---	---	---	---	---
	Landau	3/22/2000	BK98F	12,000	99	---	---	---	---	---	---	---
	Landau	6/14/2000	BT43H	10,000 J	89	---	---	---	---	---	---	---
	Landau	9/27/2000	CF72E	9,300	97	---	---	---	---	---	---	---
	Landau	12/20/2000	CP44G	9,800	84	---	---	---	---	---	---	---
	Landau	3/14/2001	CV96F	11,000 J	88	---	---	---	---	---	---	---
	Landau	6/22/2001	DH51A	11,000 J	130 J	---	---	---	---	---	---	---
	Landau	9/26/2001	DQ61F	11,000 J	99	---	---	---	---	---	---	---
	Landau	12/19/2001	DY69H	9,900	130 J	---	---	---	---	---	---	---
	Landau	12/19/2001*	DY69I	9,800	94 J	---	---	---	---	---	---	---
	Landau	3/20/2002	EE79F	10,000	87	---	---	---	---	---	---	---
	Landau	6/19/2002	EM41G	10,000	84	---	---	---	---	---	---	---
	Landau	6/25/2003	FP47I/R	11,000	86	---	---	---	---	---	---	---
	Landau	6/9/2004	GS18H	8,970	79.1	---	---	---	---	---	---	---
	Landau	8/24/2009	PL72C	9,040	60.1	---	---	---	---	---	---	---
	Landau	06/19/2014	YO99B	5,760	135	---	---	---	---	---	---	---
	Landau	06/19/2014*	YO99A	6,400	136	---	---	---	---	---	---	---
	Landau	8/21/2019	19H0324	9,340	167	---	---	---	---	---	---	---
	Farallon	4/29/2024	MW-108R-20240429	12,100	41.0	2,850	2,850	< 20.0	< 20.0	< 0.250	< 1.00	3.9
	Farallon	8/27/2024	MW-108R-20240827	7,100	39.0	2790	2,790	< 20.0	< 20.0	3.50 J	< 1.00	4.2
	Farallon	11/25/2024	MW-108R-20241125	9,700 9,580 H	51.0	2,790	2,790	< 20.0	< 20.0	< 2.50 H	< 1.00	5.0
	Farallon	2/24/2025	MW-108R-20250224	9,560	46.0	2,820	2,820	< 20.0	< 20.0	< 5.00	< 20.0	4.5

NOTES:

* denotes sample is a field duplicate.

¹Analyzed by Standard Method 2540C.

²Analyzed by Standard Method 2540D.

³Analyzed by Standard Method 2320B.

⁴Analyzed by US Environmental Protection Agency (EPA) Method 300.0

⁵Analyzed by EPA Method RSK 175.

B = analyte detected in associated method blank
mg CaCO₃/L = milligrams calcium carbonate per liter
H = analyzed outside the recommended holding time
J = result is an estimate
mg/L = milligrams per liter
T = dried residue was less than 2.5mg specified in method

**ATTACHMENT A
LABORATORY ANALYTICAL RESULTS**

2024-2025 GROUNDWATER
MONITORING ANNUAL REPORT
Union Station Property
411 South Jackson Street
Seattle, Washington

Farallon PN: 2644-001



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Thursday, April 10, 2025

Suzy Stumpf

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

RE: A4D1728 - Union Station - 2644-001

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A4D1728, which was received by the laboratory on 4/30/2024 at 3:15:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: cobrien@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Cooler #1 2.2 degC

Cooler #3 4.3 degC

Cooler #2 4.4 degC

Cooler #4 2.0 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Cameron O'Brien, Project Manager

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-102R-20240429	A4D1728-01	Water	04/29/24 10:20	04/30/24 15:15
MW-105-20240429	A4D1728-02	Water	04/29/24 12:25	04/30/24 15:15
MW-104-20240429	A4D1728-03	Water	04/29/24 14:00	04/30/24 15:15
MW-101R-20240429	A4D1728-04	Water	04/29/24 09:48	04/30/24 15:15
MW-107R-20240429	A4D1728-05	Water	04/29/24 14:13	04/30/24 15:15
MW-108R-20240429	A4D1728-06	Water	04/29/24 12:15	04/30/24 15:15
B-6R-20240429	A4D1728-07	Water	04/29/24 16:33	04/30/24 15:15
B-4R-20240429	A4D1728-08	Water	04/29/24 18:44	04/30/24 15:15

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Cameron O'Brien, Project Manager



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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL CASE NARRATIVE

Work Order: **A4D1728**

Apex Laboratories

Subcontract

This report is complete only if it includes the attached subcontract laboratory report from Air Technology Laboratories , Inc.

Cameron O'Brien
Project Manager

Apex Laboratories

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Cameron O'Brien, Project Manager



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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20240429 (A4D1728-01)				Matrix: Water		Batch: 24E0126		
Diesel	208	---	80.0	ug/L	1	05/03/24 20:20	NWTPH-Dx LL	F-11
Oil	ND	---	160	ug/L	1	05/03/24 20:20	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %	1	05/03/24 20:20	NWTPH-Dx LL	
MW-105-20240429 (A4D1728-02)				Matrix: Water		Batch: 24E0126		
Diesel	413	---	78.4	ug/L	1	05/03/24 20:40	NWTPH-Dx LL	F-13
Oil	ND	---	157	ug/L	1	05/03/24 20:40	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 87 %		Limits: 50-150 %	1	05/03/24 20:40	NWTPH-Dx LL	
MW-104-20240429 (A4D1728-03)				Matrix: Water		Batch: 24E0176		
Diesel	259	---	84.2	ug/L	1	05/06/24 18:01	NWTPH-Dx LL	F-13
Oil	ND	---	168	ug/L	1	05/06/24 18:01	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 87 %		Limits: 50-150 %	1	05/06/24 18:01	NWTPH-Dx LL	
MW-101R-20240429 (A4D1728-04)				Matrix: Water		Batch: 24E0126		
Diesel	1660	---	74.8	ug/L	1	05/03/24 21:01	NWTPH-Dx LL	F-13
Oil	ND	---	150	ug/L	1	05/03/24 21:01	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 93 %		Limits: 50-150 %	1	05/03/24 21:01	NWTPH-Dx LL	
MW-107R-20240429 (A4D1728-05)				Matrix: Water		Batch: 24E0176		
Diesel	1200	---	76.9	ug/L	1	05/06/24 18:21	NWTPH-Dx LL	F-13
Oil	ND	---	154	ug/L	1	05/06/24 18:21	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %	1	05/06/24 18:21	NWTPH-Dx LL	
MW-108R-20240429 (A4D1728-06)				Matrix: Water		Batch: 24E0176		
Diesel	92.1	---	76.9	ug/L	1	05/06/24 19:02	NWTPH-Dx LL	F-11
Oil	ND	---	154	ug/L	1	05/06/24 19:02	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 91 %		Limits: 50-150 %	1	05/06/24 19:02	NWTPH-Dx LL	
B-6R-20240429 (A4D1728-07)				Matrix: Water		Batch: 24E0176		
Diesel	115	---	83.3	ug/L	1	05/06/24 19:43	NWTPH-Dx LL	F-11
Oil	ND	---	167	ug/L	1	05/06/24 19:43	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 103 %		Limits: 50-150 %	1	05/06/24 19:43	NWTPH-Dx LL	

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20240429 (A4D1728-08)				Matrix: Water		Batch: 24E0176		
Diesel	178	---	80.0	ug/L	1	05/06/24 20:23	NWTPH-Dx LL	F-13
Oil	ND	---	160	ug/L	1	05/06/24 20:23	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 100 %		Limits: 50-150 %	1	05/06/24 20:23	NWTPH-Dx LL	

Apex Laboratories

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Cameron O'Brien, Project Manager



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Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20240429 (A4D1728-01)				Matrix: Water		Batch: 24E0354		
Diesel	ND	---	80.0	ug/L	1	05/09/24 20:22	NWTPH-Dx/SGC	
Oil	ND	---	160	ug/L	1	05/09/24 20:22	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 72 %		Limits: 50-150 %	1	05/09/24 20:22	NWTPH-Dx/SGC	
MW-105-20240429 (A4D1728-02)				Matrix: Water		Batch: 24E0354		
Diesel	121	---	78.4	ug/L	1	05/09/24 20:42	NWTPH-Dx/SGC	F-17
Oil	ND	---	157	ug/L	1	05/09/24 20:42	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 66 %		Limits: 50-150 %	1	05/09/24 20:42	NWTPH-Dx/SGC	
MW-104-20240429 (A4D1728-03)				Matrix: Water		Batch: 24E0355		
Diesel	95.1	---	84.2	ug/L	1	05/09/24 20:26	NWTPH-Dx/SGC	F-12
Oil	ND	---	168	ug/L	1	05/09/24 20:26	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 70 %		Limits: 50-150 %	1	05/09/24 20:26	NWTPH-Dx/SGC	
MW-101R-20240429 (A4D1728-04)				Matrix: Water		Batch: 24E0354		
Diesel	771	---	74.8	ug/L	1	05/09/24 21:03	NWTPH-Dx/SGC	F-17
Oil	ND	---	150	ug/L	1	05/09/24 21:03	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 78 %		Limits: 50-150 %	1	05/09/24 21:03	NWTPH-Dx/SGC	
MW-107R-20240429 (A4D1728-05)				Matrix: Water		Batch: 24E0355		
Diesel	683	---	76.9	ug/L	1	05/09/24 20:47	NWTPH-Dx/SGC	F-17
Oil	ND	---	154	ug/L	1	05/09/24 20:47	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 68 %		Limits: 50-150 %	1	05/09/24 20:47	NWTPH-Dx/SGC	
MW-108R-20240429 (A4D1728-06)				Matrix: Water		Batch: 24E0355		
Diesel	ND	---	76.9	ug/L	1	05/09/24 21:07	NWTPH-Dx/SGC	
Oil	ND	---	154	ug/L	1	05/09/24 21:07	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 68 %		Limits: 50-150 %	1	05/09/24 21:07	NWTPH-Dx/SGC	
B-6R-20240429 (A4D1728-07)				Matrix: Water		Batch: 24E0355		
Diesel	ND	---	83.3	ug/L	1	05/09/24 21:28	NWTPH-Dx/SGC	
Oil	ND	---	167	ug/L	1	05/09/24 21:28	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 94 %		Limits: 50-150 %	1	05/09/24 21:28	NWTPH-Dx/SGC	

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20240429 (A4D1728-08)				Matrix: Water		Batch: 24E0355		
Diesel	ND	---	80.0	ug/L	1	05/09/24 21:48	NWTPH-Dx/SGC	
Oil	ND	---	160	ug/L	1	05/09/24 21:48	NWTPH-Dx/SGC	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>05/09/24 21:48</i>	<i>NWTPH-Dx/SGC</i>	

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Cameron O'Brien, Project Manager



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Report ID:

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20240429 (A4D1728-01RE1)				Matrix: Water		Batch: 24E0040		
Gasoline Range Organics	ND	---	100	ug/L	1	05/01/24 22:01	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	92 %	Limits: 50-150 %	1	05/01/24 22:01	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			114 %	50-150 %	1	05/01/24 22:01	NWTPH-Gx (MS)	
MW-105-20240429 (A4D1728-02RE1)				Matrix: Water		Batch: 24E0077		
Gasoline Range Organics	502	---	100	ug/L	1	05/03/24 08:39	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	93 %	Limits: 50-150 %	1	05/03/24 08:39	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			95 %	50-150 %	1	05/03/24 08:39	NWTPH-Gx (MS)	
MW-104-20240429 (A4D1728-03RE1)				Matrix: Water		Batch: 24E0077		
Gasoline Range Organics	ND	---	100	ug/L	1	05/03/24 09:01	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	102 %	Limits: 50-150 %	1	05/03/24 09:01	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %	50-150 %	1	05/03/24 09:01	NWTPH-Gx (MS)	
MW-101R-20240429 (A4D1728-04RE1)				Matrix: Water		Batch: 24E0077		
Gasoline Range Organics	3830	---	200	ug/L	2	05/03/24 15:14	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	99 %	Limits: 50-150 %	1	05/03/24 15:14	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			92 %	50-150 %	1	05/03/24 15:14	NWTPH-Gx (MS)	
MW-107R-20240429 (A4D1728-05RE1)				Matrix: Water		Batch: 24E0077		
Gasoline Range Organics	608	---	100	ug/L	1	05/03/24 10:51	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	105 %	Limits: 50-150 %	1	05/03/24 10:51	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150 %	1	05/03/24 10:51	NWTPH-Gx (MS)	
MW-108R-20240429 (A4D1728-06RE1)				Matrix: Water		Batch: 24E0077		
Gasoline Range Organics	ND	---	100	ug/L	1	05/03/24 09:45	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	99 %	Limits: 50-150 %	1	05/03/24 09:45	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			107 %	50-150 %	1	05/03/24 09:45	NWTPH-Gx (MS)	
B-6R-20240429 (A4D1728-07RE1)				Matrix: Water		Batch: 24E0077		
Gasoline Range Organics	ND	---	100	ug/L	1	05/03/24 10:07	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	99 %	Limits: 50-150 %	1	05/03/24 10:07	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			107 %	50-150 %	1	05/03/24 10:07	NWTPH-Gx (MS)	

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Cameron O'Brien, Project Manager



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Report ID:

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20240429 (A4D1728-08RE1)				Matrix: Water		Batch: 24E0077		
Gasoline Range Organics	ND	---	100	ug/L	1	05/03/24 10:29	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	103 %	Limits: 50-150 %	1	05/03/24 10:29	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			112 %	50-150 %	1	05/03/24 10:29	NWTPH-Gx (MS)	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20240429 (A4D1728-01RE1)				Matrix: Water		Batch: 24E0040		
Benzene	ND	---	0.200	ug/L	1	05/01/24 22:01	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	05/01/24 22:01	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	05/01/24 22:01	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	05/01/24 22:01	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	109 %	Limits:	80-120 %	1	05/01/24 22:01	EPA 8260D
Toluene-d8 (Surr)			107 %		80-120 %	1	05/01/24 22:01	EPA 8260D
4-Bromofluorobenzene (Surr)			93 %		80-120 %	1	05/01/24 22:01	EPA 8260D
MW-105-20240429 (A4D1728-02RE1)				Matrix: Water		Batch: 24E0077		
Benzene	109	---	0.200	ug/L	1	05/03/24 08:39	EPA 8260D	
Toluene	4.49	---	1.00	ug/L	1	05/03/24 08:39	EPA 8260D	
Ethylbenzene	6.78	---	0.500	ug/L	1	05/03/24 08:39	EPA 8260D	
Xylenes, total	4.44	---	1.50	ug/L	1	05/03/24 08:39	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	91 %	Limits:	80-120 %	1	05/03/24 08:39	EPA 8260D
Toluene-d8 (Surr)			101 %		80-120 %	1	05/03/24 08:39	EPA 8260D
4-Bromofluorobenzene (Surr)			103 %		80-120 %	1	05/03/24 08:39	EPA 8260D
MW-104-20240429 (A4D1728-03RE1)				Matrix: Water		Batch: 24E0077		
Benzene	ND	---	0.200	ug/L	1	05/03/24 09:01	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	05/03/24 09:01	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	05/03/24 09:01	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	05/03/24 09:01	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	106 %	Limits:	80-120 %	1	05/03/24 09:01	EPA 8260D
Toluene-d8 (Surr)			104 %		80-120 %	1	05/03/24 09:01	EPA 8260D
4-Bromofluorobenzene (Surr)			103 %		80-120 %	1	05/03/24 09:01	EPA 8260D
MW-101R-20240429 (A4D1728-04RE1)				Matrix: Water		Batch: 24E0077		
Benzene	43.2	---	0.400	ug/L	2	05/03/24 15:14	EPA 8260D	
Toluene	ND	---	2.00	ug/L	2	05/03/24 15:14	EPA 8260D	
Ethylbenzene	85.3	---	1.00	ug/L	2	05/03/24 15:14	EPA 8260D	
Xylenes, total	19.0	---	3.00	ug/L	2	05/03/24 15:14	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	96 %	Limits:	80-120 %	1	05/03/24 15:14	EPA 8260D
Toluene-d8 (Surr)			99 %		80-120 %	1	05/03/24 15:14	EPA 8260D
4-Bromofluorobenzene (Surr)			106 %		80-120 %	1	05/03/24 15:14	EPA 8260D

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-107R-20240429 (A4D1728-05RE1)				Matrix: Water		Batch: 24E0077		
Benzene	1.17	---	0.200	ug/L	1	05/03/24 10:51	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	05/03/24 10:51	EPA 8260D	
Ethylbenzene	4.68	---	0.500	ug/L	1	05/03/24 10:51	EPA 8260D	
Xylenes, total	4.39	---	1.50	ug/L	1	05/03/24 10:51	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 80-120 %	1	05/03/24 10:51	EPA 8260D	
Toluene-d8 (Surr)		97 %		80-120 %	1	05/03/24 10:51	EPA 8260D	
4-Bromofluorobenzene (Surr)		100 %		80-120 %	1	05/03/24 10:51	EPA 8260D	
MW-108R-20240429 (A4D1728-06RE1)				Matrix: Water		Batch: 24E0077		
Benzene	ND	---	0.200	ug/L	1	05/03/24 09:45	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	05/03/24 09:45	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	05/03/24 09:45	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	05/03/24 09:45	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %	1	05/03/24 09:45	EPA 8260D	
Toluene-d8 (Surr)		103 %		80-120 %	1	05/03/24 09:45	EPA 8260D	
4-Bromofluorobenzene (Surr)		101 %		80-120 %	1	05/03/24 09:45	EPA 8260D	
B-6R-20240429 (A4D1728-07RE1)				Matrix: Water		Batch: 24E0077		
Benzene	ND	---	0.200	ug/L	1	05/03/24 10:07	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	05/03/24 10:07	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	05/03/24 10:07	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	05/03/24 10:07	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 107 %		Limits: 80-120 %	1	05/03/24 10:07	EPA 8260D	
Toluene-d8 (Surr)		102 %		80-120 %	1	05/03/24 10:07	EPA 8260D	
4-Bromofluorobenzene (Surr)		103 %		80-120 %	1	05/03/24 10:07	EPA 8260D	
B-4R-20240429 (A4D1728-08RE1)				Matrix: Water		Batch: 24E0077		
Benzene	ND	---	0.200	ug/L	1	05/03/24 10:29	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	05/03/24 10:29	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	05/03/24 10:29	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	05/03/24 10:29	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 111 %		Limits: 80-120 %	1	05/03/24 10:29	EPA 8260D	
Toluene-d8 (Surr)		103 %		80-120 %	1	05/03/24 10:29	EPA 8260D	
4-Bromofluorobenzene (Surr)		102 %		80-120 %	1	05/03/24 10:29	EPA 8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20240429 (A4D1728-01RE1)				Matrix: Water		Batch: 24E0134		
Acenaphthene	6.80	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Acenaphthylene	ND	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Anthracene	0.535	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Benz(a)anthracene	ND	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Benzo(a)pyrene	ND	---	0.300	ug/L	10	05/06/24 15:19	EPA 8270E	
Benzo(b)fluoranthene	ND	---	0.300	ug/L	10	05/06/24 15:19	EPA 8270E	
Benzo(k)fluoranthene	ND	---	0.300	ug/L	10	05/06/24 15:19	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Chrysene	ND	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Fluoranthene	0.574	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Fluorene	2.11	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
1-Methylnaphthalene	ND	---	0.400	ug/L	10	05/06/24 15:19	EPA 8270E	
2-Methylnaphthalene	ND	---	0.400	ug/L	10	05/06/24 15:19	EPA 8270E	
Naphthalene	ND	---	0.400	ug/L	10	05/06/24 15:19	EPA 8270E	
Phenanthrene	0.473	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Pyrene	0.472	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Dibenzofuran	0.203	---	0.200	ug/L	10	05/06/24 15:19	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 53 %		Limits: 44-120 %	10	05/06/24 15:19	EPA 8270E	
2-Fluorobiphenyl (Surr)		57 %		44-120 %	10	05/06/24 15:19	EPA 8270E	
Phenol-d6 (Surr)		19 %		10-133 %	10	05/06/24 15:19	EPA 8270E	
p-Terphenyl-d14 (Surr)		71 %		50-134 %	10	05/06/24 15:19	EPA 8270E	
2-Fluorophenol (Surr)		30 %		19-120 %	10	05/06/24 15:19	EPA 8270E	
2,4,6-Tribromophenol (Surr)		92 %		43-140 %	10	05/06/24 15:19	EPA 8270E	

MW-105-20240429 (A4D1728-02)

Matrix: Water

Batch: 24E0134

Acenaphthene	30.1	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E
Acenaphthylene	ND	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E
Anthracene	2.41	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E
Benz(a)anthracene	ND	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E
Benzo(a)pyrene	ND	---	1.12	ug/L	40	05/03/24 23:01	EPA 8270E
Benzo(b)fluoranthene	ND	---	1.12	ug/L	40	05/03/24 23:01	EPA 8270E
Benzo(k)fluoranthene	ND	---	1.12	ug/L	40	05/03/24 23:01	EPA 8270E
Benzo(g,h,i)perylene	ND	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E
Chrysene	ND	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-105-20240429 (A4D1728-02)			Matrix: Water			Batch: 24E0134		
Dibenz(a,h)anthracene	ND	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E	
Fluoranthene	4.69	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E	
Fluorene	9.23	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E	
1-Methylnaphthalene	4.09	---	1.50	ug/L	40	05/03/24 23:01	EPA 8270E	
2-Methylnaphthalene	ND	---	1.50	ug/L	40	05/03/24 23:01	EPA 8270E	
Naphthalene	10.2	---	1.50	ug/L	40	05/03/24 23:01	EPA 8270E	
Phenanthrene	ND	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E	
Pyrene	3.97	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E	
Dibenzofuran	4.53	---	0.748	ug/L	40	05/03/24 23:01	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 51 %		Limits: 44-120 %	40	05/03/24 23:01	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)		62 %		44-120 %	40	05/03/24 23:01	EPA 8270E	S-05
Phenol-d6 (Surr)		16 %		10-133 %	40	05/03/24 23:01	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)		71 %		50-134 %	40	05/03/24 23:01	EPA 8270E	S-05
2-Fluorophenol (Surr)		28 %		19-120 %	40	05/03/24 23:01	EPA 8270E	S-05
2,4,6-Tribromophenol (Surr)		105 %		43-140 %	40	05/03/24 23:01	EPA 8270E	S-05
MW-104-20240429 (A4D1728-03RE1)			Matrix: Water			Batch: 24E0134		
Acenaphthene	26.7	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
Acenaphthylene	0.445	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
Anthracene	ND	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
Benz(a)anthracene	ND	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
Benzo(a)pyrene	ND	---	0.316	ug/L	10	05/06/24 15:54	EPA 8270E	
Benzo(b)fluoranthene	ND	---	0.316	ug/L	10	05/06/24 15:54	EPA 8270E	
Benzo(k)fluoranthene	ND	---	0.316	ug/L	10	05/06/24 15:54	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
Chrysene	ND	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
Fluoranthene	1.04	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
Fluorene	2.72	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
1-Methylnaphthalene	0.471	---	0.421	ug/L	10	05/06/24 15:54	EPA 8270E	
2-Methylnaphthalene	ND	---	0.421	ug/L	10	05/06/24 15:54	EPA 8270E	
Naphthalene	ND	---	0.421	ug/L	10	05/06/24 15:54	EPA 8270E	
Phenanthrene	ND	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
Pyrene	0.787	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

AMENDED REPORT

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13555 SE 36th Street, Suite 320

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Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-104-20240429 (A4D1728-03RE1)			Matrix: Water			Batch: 24E0134		
Dibenzofuran	ND	---	0.211	ug/L	10	05/06/24 15:54	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	54 %	Limits:	44-120 %	10	05/06/24 15:54	EPA 8270E
2-Fluorobiphenyl (Surr)			59 %		44-120 %	10	05/06/24 15:54	EPA 8270E
Phenol-d6 (Surr)			19 %		10-133 %	10	05/06/24 15:54	EPA 8270E
p-Terphenyl-d14 (Surr)			86 %		50-134 %	10	05/06/24 15:54	EPA 8270E
2-Fluorophenol (Surr)			31 %		19-120 %	10	05/06/24 15:54	EPA 8270E
2,4,6-Tribromophenol (Surr)			83 %		43-140 %	10	05/06/24 15:54	EPA 8270E
MW-101R-20240429 (A4D1728-04RE1)			Matrix: Water			Batch: 24E0134		
Acenaphthene	108	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	R-02
Acenaphthylene	ND	---	1.13	ug/L	40	05/06/24 13:38	EPA 8270E	
Anthracene	6.13	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	
Benz(a)anthracene	0.948	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	
Benzo(a)pyrene	1.63	---	1.13	ug/L	40	05/06/24 13:38	EPA 8270E	
Benzo(b)fluoranthene	1.30	---	1.13	ug/L	40	05/06/24 13:38	EPA 8270E	
Benzo(k)fluoranthene	ND	---	1.13	ug/L	40	05/06/24 13:38	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	
Chrysene	ND	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	
Fluoranthene	5.35	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	
Fluorene	42.9	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	
1-Methylnaphthalene	125	---	1.51	ug/L	40	05/06/24 13:38	EPA 8270E	
2-Methylnaphthalene	108	---	1.51	ug/L	40	05/06/24 13:38	EPA 8270E	
Naphthalene	163	---	1.51	ug/L	40	05/06/24 13:38	EPA 8270E	
Phenanthrene	48.9	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	
Pyrene	5.19	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	
Dibenzofuran	8.77	---	0.755	ug/L	40	05/06/24 13:38	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	42 %	Limits:	44-120 %	40	05/06/24 13:38	EPA 8270E S-05
2-Fluorobiphenyl (Surr)			47 %		44-120 %	40	05/06/24 13:38	EPA 8270E S-05
Phenol-d6 (Surr)			12 %		10-133 %	40	05/06/24 13:38	EPA 8270E S-05
p-Terphenyl-d14 (Surr)			90 %		50-134 %	40	05/06/24 13:38	EPA 8270E S-05
2-Fluorophenol (Surr)			20 %		19-120 %	40	05/06/24 13:38	EPA 8270E S-05
2,4,6-Tribromophenol (Surr)			121 %		43-140 %	40	05/06/24 13:38	EPA 8270E S-05

MW-107R-20240429 (A4D1728-05)

Matrix: Water

Batch: 24E0134

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-107R-20240429 (A4D1728-05)				Matrix: Water		Batch: 24E0134		
Acenaphthene	56.1	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	R-02
Acenaphthylene	ND	---	2.69	ug/L	40	05/03/24 20:12	EPA 8270E	
Anthracene	1.53	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	
Benz(a)anthracene	ND	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	
Benzo(a)pyrene	ND	---	1.15	ug/L	40	05/03/24 20:12	EPA 8270E	
Benzo(b)fluoranthene	ND	---	1.15	ug/L	40	05/03/24 20:12	EPA 8270E	
Benzo(k)fluoranthene	ND	---	1.15	ug/L	40	05/03/24 20:12	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	
Chrysene	ND	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	
Fluoranthene	0.809	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	
Fluorene	19.9	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	
1-Methylnaphthalene	48.3	---	1.54	ug/L	40	05/03/24 20:12	EPA 8270E	
2-Methylnaphthalene	26.7	---	1.54	ug/L	40	05/03/24 20:12	EPA 8270E	
Naphthalene	24.8	---	1.54	ug/L	40	05/03/24 20:12	EPA 8270E	
Phenanthrene	11.0	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	
Pyrene	0.805	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	
Dibenzofuran	2.89	---	0.769	ug/L	40	05/03/24 20:12	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 43 %		Limits: 44-120 %	40	05/03/24 20:12	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)		50 %		44-120 %	40	05/03/24 20:12	EPA 8270E	S-05
Phenol-d6 (Surr)		12 %		10-133 %	40	05/03/24 20:12	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)		92 %		50-134 %	40	05/03/24 20:12	EPA 8270E	S-05
2-Fluorophenol (Surr)		24 %		19-120 %	40	05/03/24 20:12	EPA 8270E	S-05
2,4,6-Tribromophenol (Surr)		135 %		43-140 %	40	05/03/24 20:12	EPA 8270E	S-05

MW-108R-20240429 (A4D1728-06RE2)

Matrix: Water

Batch: 24E0134

Acenaphthene	0.309	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E
Acenaphthylene	ND	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E
Anthracene	0.0513	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E
Benz(a)anthracene	ND	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E
Benzo(a)pyrene	ND	---	0.0288	ug/L	1	05/06/24 18:48	EPA 8270E
Benzo(b)fluoranthene	ND	---	0.0288	ug/L	1	05/06/24 18:48	EPA 8270E
Benzo(k)fluoranthene	ND	---	0.0288	ug/L	1	05/06/24 18:48	EPA 8270E
Benzo(g,h,i)perylene	ND	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E
Chrysene	ND	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E

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ANALYTICAL REPORT

AMENDED REPORT

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Tigard, OR 97223

503-718-2323

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Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240429 (A4D1728-06RE2)				Matrix: Water		Batch: 24E0134		
Dibenz(a,h)anthracene	ND	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E	
Fluoranthene	0.0979	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E	
Fluorene	0.165	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E	
1-Methylnaphthalene	0.0560	---	0.0385	ug/L	1	05/06/24 18:48	EPA 8270E	
2-Methylnaphthalene	ND	---	0.0385	ug/L	1	05/06/24 18:48	EPA 8270E	
Naphthalene	0.0510	---	0.0385	ug/L	1	05/06/24 18:48	EPA 8270E	
Phenanthrene	0.375	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E	
Pyrene	0.0999	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E	
Dibenzofuran	0.0439	---	0.0192	ug/L	1	05/06/24 18:48	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 54 %		Limits: 44-120 %	1	05/06/24 18:48	EPA 8270E	
2-Fluorobiphenyl (Surr)		53 %		44-120 %	1	05/06/24 18:48	EPA 8270E	
Phenol-d6 (Surr)		18 %		10-133 %	1	05/06/24 18:48	EPA 8270E	
p-Terphenyl-d14 (Surr)		76 %		50-134 %	1	05/06/24 18:48	EPA 8270E	
2-Fluorophenol (Surr)		28 %		19-120 %	1	05/06/24 18:48	EPA 8270E	
2,4,6-Tribromophenol (Surr)		86 %		43-140 %	1	05/06/24 18:48	EPA 8270E	
B-6R-20240429 (A4D1728-07RE2)				Matrix: Water		Batch: 24E0134		
Acenaphthene	0.0609	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
Acenaphthylene	ND	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
Anthracene	ND	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
Benz(a)anthracene	0.0205	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
Benzo(a)pyrene	0.0321	---	0.0297	ug/L	1	05/06/24 19:22	EPA 8270E	
Benzo(b)fluoranthene	0.0300	---	0.0297	ug/L	1	05/06/24 19:22	EPA 8270E	
Benzo(k)fluoranthene	ND	---	0.0297	ug/L	1	05/06/24 19:22	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
Chrysene	ND	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
Fluoranthene	0.0517	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
Fluorene	0.0263	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
1-Methylnaphthalene	ND	---	0.0396	ug/L	1	05/06/24 19:22	EPA 8270E	
2-Methylnaphthalene	ND	---	0.0396	ug/L	1	05/06/24 19:22	EPA 8270E	
Naphthalene	ND	---	0.0396	ug/L	1	05/06/24 19:22	EPA 8270E	
Phenanthrene	0.106	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
Pyrene	0.0510	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	

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ANALYTICAL REPORT

AMENDED REPORT

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503-718-2323

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Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-6R-20240429 (A4D1728-07RE2)				Matrix: Water		Batch: 24E0134		
Dibenzofuran	ND	---	0.0198	ug/L	1	05/06/24 19:22	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery:</i>	86 %	<i>Limits:</i>	44-120 %	1	05/06/24 19:22	EPA 8270E
<i>2-Fluorobiphenyl (Surr)</i>			77 %		44-120 %	1	05/06/24 19:22	EPA 8270E
<i>Phenol-d6 (Surr)</i>			30 %		10-133 %	1	05/06/24 19:22	EPA 8270E
<i>p-Terphenyl-d14 (Surr)</i>			92 %		50-134 %	1	05/06/24 19:22	EPA 8270E
<i>2-Fluorophenol (Surr)</i>			46 %		19-120 %	1	05/06/24 19:22	EPA 8270E
<i>2,4,6-Tribromophenol (Surr)</i>			102 %		43-140 %	1	05/06/24 19:22	EPA 8270E
B-4R-20240429 (A4D1728-08RE1)				Matrix: Water		Batch: 24E0134		
Acenaphthene	21.7	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
Acenaphthylene	ND	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
Anthracene	0.372	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
Benz(a)anthracene	0.250	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
Benzo(a)pyrene	0.376	---	0.300	ug/L	10	05/06/24 17:38	EPA 8270E	
Benzo(b)fluoranthene	ND	---	0.300	ug/L	10	05/06/24 17:38	EPA 8270E	
Benzo(k)fluoranthene	ND	---	0.300	ug/L	10	05/06/24 17:38	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
Chrysene	ND	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
Fluoranthene	0.467	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
Fluorene	4.44	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
1-Methylnaphthalene	2.48	---	0.400	ug/L	10	05/06/24 17:38	EPA 8270E	
2-Methylnaphthalene	ND	---	0.400	ug/L	10	05/06/24 17:38	EPA 8270E	
Naphthalene	ND	---	0.400	ug/L	10	05/06/24 17:38	EPA 8270E	
Phenanthrene	0.924	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
Pyrene	0.599	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
Dibenzofuran	ND	---	0.200	ug/L	10	05/06/24 17:38	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery:</i>	96 %	<i>Limits:</i>	44-120 %	10	05/06/24 17:38	EPA 8270E
<i>2-Fluorobiphenyl (Surr)</i>			88 %		44-120 %	10	05/06/24 17:38	EPA 8270E
<i>Phenol-d6 (Surr)</i>			30 %		10-133 %	10	05/06/24 17:38	EPA 8270E
<i>p-Terphenyl-d14 (Surr)</i>			93 %		50-134 %	10	05/06/24 17:38	EPA 8270E
<i>2-Fluorophenol (Surr)</i>			49 %		19-120 %	10	05/06/24 17:38	EPA 8270E
<i>2,4,6-Tribromophenol (Surr)</i>			117 %		43-140 %	10	05/06/24 17:38	EPA 8270E

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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20240429 (A4D1728-01)				Matrix: Water				
Batch: 24E0261								
Arsenic	2.24	---	1.00	ug/L	1	05/08/24 07:28	EPA 6020B	
MW-105-20240429 (A4D1728-02)				Matrix: Water				
Batch: 24E0261								
Arsenic	5.47	---	1.00	ug/L	1	05/08/24 07:53	EPA 6020B	
MW-104-20240429 (A4D1728-03)				Matrix: Water				
Batch: 24E0261								
Arsenic	ND	---	1.00	ug/L	1	05/08/24 08:15	EPA 6020B	
MW-101R-20240429 (A4D1728-04)				Matrix: Water				
Batch: 24E0261								
Arsenic	5.13	---	1.00	ug/L	1	05/08/24 08:21	EPA 6020B	
MW-107R-20240429 (A4D1728-05)				Matrix: Water				
Batch: 24E0261								
Arsenic	6.02	---	1.00	ug/L	1	05/08/24 08:27	EPA 6020B	
MW-108R-20240429 (A4D1728-06)				Matrix: Water				
Batch: 24E0261								
Arsenic	ND	---	1.00	ug/L	1	05/08/24 08:34	EPA 6020B	
B-6R-20240429 (A4D1728-07)				Matrix: Water				
Batch: 24E0261								
Arsenic	43.3	---	1.00	ug/L	1	05/08/24 08:49	EPA 6020B	
B-4R-20240429 (A4D1728-08)				Matrix: Water				
Batch: 24E0261								
Arsenic	3.92	---	1.00	ug/L	1	05/08/24 08:57	EPA 6020B	

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Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20240429 (A4D1728-01)				Matrix: Water				
Batch: 24E0254								
Arsenic	2.04	---	1.00	ug/L	1	05/08/24 02:05	EPA 6020B (Diss)	
MW-102R-20240429 (A4D1728-01RE1)				Matrix: Water				
Batch: 24E0666								
Arsenic	ND	---	1.00	ug/L	1	05/21/24 00:10	EPA 6020B (Diss)	FILT1,H-12
MW-105-20240429 (A4D1728-02)				Matrix: Water				
Batch: 24E0254								
Arsenic	3.85	---	1.00	ug/L	1	05/08/24 02:11	EPA 6020B (Diss)	
MW-105-20240429 (A4D1728-02RE1)				Matrix: Water				
Batch: 24E0666								
Arsenic	1.66	---	1.00	ug/L	1	05/21/24 00:21	EPA 6020B (Diss)	FILT1,H-12
MW-104-20240429 (A4D1728-03)				Matrix: Water				
Batch: 24E0254								
Arsenic	ND	---	1.00	ug/L	1	05/08/24 02:18	EPA 6020B (Diss)	
MW-101R-20240429 (A4D1728-04)				Matrix: Water				
Batch: 24E0254								
Arsenic	4.45	---	1.00	ug/L	1	05/08/24 02:25	EPA 6020B (Diss)	
MW-101R-20240429 (A4D1728-04RE2)				Matrix: Water				
Batch: 24E0666								
Arsenic	ND	---	1.00	ug/L	1	05/21/24 12:44	EPA 6020B (Diss)	FILT1,H-12
MW-107R-20240429 (A4D1728-05)				Matrix: Water				
Batch: 24E0254								
Arsenic	5.90	---	1.00	ug/L	1	05/08/24 02:31	EPA 6020B (Diss)	
MW-107R-20240429 (A4D1728-05RE2)				Matrix: Water				
Batch: 24E0666								
Arsenic	4.67	---	1.00	ug/L	1	05/21/24 12:50	EPA 6020B (Diss)	FILT1,H-12

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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240429 (A4D1728-06)				Matrix: Water				
Batch: 24E0254								
Arsenic	ND	---	1.00	ug/L	1	05/08/24 02:37	EPA 6020B (Diss)	
B-6R-20240429 (A4D1728-07)				Matrix: Water				
Batch: 24E0254								
Arsenic	43.8	---	1.00	ug/L	1	05/08/24 02:45	EPA 6020B (Diss)	
B-6R-20240429 (A4D1728-07RE2)				Matrix: Water				
Batch: 24E0666								
Arsenic	22.3	---	1.00	ug/L	1	05/21/24 13:03	EPA 6020B (Diss)	FILT1,H-12
B-4R-20240429 (A4D1728-08)				Matrix: Water				
Batch: 24E0361								
Arsenic	3.68	---	1.00	ug/L	1	05/10/24 20:35	EPA 6020B (Diss)	
B-4R-20240429 (A4D1728-08RE2)				Matrix: Water				
Batch: 24E0666								
Arsenic	3.41	---	1.00	ug/L	1	05/21/24 13:09	EPA 6020B (Diss)	FILT1,H-12

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20240429 (A4D1728-01)				Matrix: Water				
Batch: 24D1165								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	04/30/24 19:51	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	04/30/24 19:51	EPA 300.0	
MW-105-20240429 (A4D1728-02)				Matrix: Water				
Batch: 24D1165								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	04/30/24 20:55	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	04/30/24 20:55	EPA 300.0	
MW-104-20240429 (A4D1728-03)				Matrix: Water				
Batch: 24D1165								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	04/30/24 21:17	EPA 300.0	
Sulfate	4.72	---	1.00	mg/L	1	04/30/24 21:17	EPA 300.0	
MW-101R-20240429 (A4D1728-04)				Matrix: Water				
Batch: 24D1165								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	04/30/24 21:39	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	04/30/24 21:39	EPA 300.0	
MW-107R-20240429 (A4D1728-05)				Matrix: Water				
Batch: 24D1165								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	04/30/24 22:00	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	04/30/24 22:00	EPA 300.0	
MW-108R-20240429 (A4D1728-06)				Matrix: Water				
Batch: 24D1165								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	04/30/24 23:05	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	04/30/24 23:05	EPA 300.0	
B-6R-20240429 (A4D1728-07)				Matrix: Water				
Batch: 24D1165								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	04/30/24 23:26	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	04/30/24 23:26	EPA 300.0	
B-4R-20240429 (A4D1728-08)				Matrix: Water				
Batch: 24D1165								

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20240429 (A4D1728-08)				Matrix: Water				
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	04/30/24 23:48	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	04/30/24 23:48	EPA 300.0	

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ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20240429 (A4D1728-01)				Matrix: Water				
Batch: 24E0112								
Total Dissolved Solids	1860	---	25.0	mg/L	1	05/02/24 19:08	SM 2540 C	
Batch: 24E0156								
Total Suspended Solids	18.0	---	5.00	mg/L	1	05/03/24 14:59	SM 2540 D	TSS
MW-105-20240429 (A4D1728-02)				Matrix: Water				
Batch: 24E0112								
Total Dissolved Solids	2990	---	50.0	mg/L	1	05/02/24 19:08	SM 2540 C	
Batch: 24E0156								
Total Suspended Solids	7.00	---	5.00	mg/L	1	05/03/24 14:59	SM 2540 D	TSS
MW-104-20240429 (A4D1728-03)				Matrix: Water				
Batch: 24E0112								
Total Dissolved Solids	425	---	5.00	mg/L	1	05/02/24 19:08	SM 2540 C	
Batch: 24E0156								
Total Suspended Solids	ND	---	5.00	mg/L	1	05/03/24 14:59	SM 2540 D	TSS
MW-101R-20240429 (A4D1728-04)				Matrix: Water				
Batch: 24E0112								
Total Dissolved Solids	996	---	10.0	mg/L	1	05/02/24 19:08	SM 2540 C	
Batch: 24E0156								
Total Suspended Solids	48.0	---	5.00	mg/L	1	05/03/24 14:59	SM 2540 D	
MW-107R-20240429 (A4D1728-05)				Matrix: Water				
Batch: 24E0112								
Total Dissolved Solids	1020	---	10.0	mg/L	1	05/02/24 19:08	SM 2540 C	
Batch: 24E0156								
Total Suspended Solids	9.00	---	5.00	mg/L	1	05/03/24 14:59	SM 2540 D	TSS
MW-108R-20240429 (A4D1728-06)				Matrix: Water				
Batch: 24E0156								
Total Suspended Solids	41.0	---	5.00	mg/L	1	05/03/24 14:59	SM 2540 D	
Batch: 24E0214								
Total Dissolved Solids	12100	---	500	mg/L	1	05/06/24 19:18	SM 2540 C	

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Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-6R-20240429 (A4D1728-07)				Matrix: Water				
Batch: 24E0156								
Total Suspended Solids	31.0	---	5.00	mg/L	1	05/03/24 14:59	SM 2540 D	
Batch: 24E0214								
Total Dissolved Solids	1180	---	10.0	mg/L	1	05/06/24 19:18	SM 2540 C	
B-4R-20240429 (A4D1728-08)				Matrix: Water				
Batch: 24E0156								
Total Suspended Solids	5.00	---	5.00	mg/L	1	05/03/24 14:59	SM 2540 D	TSS
Batch: 24E0214								
Total Dissolved Solids	494	---	5.00	mg/L	1	05/06/24 19:18	SM 2540 C	

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ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20240429 (A4D1728-01)				Matrix: Water				
Batch: 24E0138								
Total Alkalinity	769	---	20.0	mg CaCO3/L	1	05/03/24 14:16	SM 2320 B	
Bicarbonate Alkalinity	769	---	20.0	mg CaCO3/L	1	05/03/24 14:16	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 14:16	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 14:16	SM 2320 B	
MW-105-20240429 (A4D1728-02)				Matrix: Water				
Batch: 24E0138								
Total Alkalinity	1270	---	20.0	mg CaCO3/L	1	05/03/24 14:30	SM 2320 B	
Bicarbonate Alkalinity	1270	---	20.0	mg CaCO3/L	1	05/03/24 14:30	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 14:30	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 14:30	SM 2320 B	
MW-104-20240429 (A4D1728-03)				Matrix: Water				
Batch: 24E0138								
Total Alkalinity	330	---	20.0	mg CaCO3/L	1	05/03/24 15:09	SM 2320 B	
Bicarbonate Alkalinity	330	---	20.0	mg CaCO3/L	1	05/03/24 15:09	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 15:09	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 15:09	SM 2320 B	
MW-101R-20240429 (A4D1728-04)				Matrix: Water				
Batch: 24E0138								
Total Alkalinity	782	---	20.0	mg CaCO3/L	1	05/03/24 15:21	SM 2320 B	
Bicarbonate Alkalinity	782	---	20.0	mg CaCO3/L	1	05/03/24 15:21	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 15:21	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 15:21	SM 2320 B	
MW-107R-20240429 (A4D1728-05)				Matrix: Water				
Batch: 24E0138								
Total Alkalinity	794	---	20.0	mg CaCO3/L	1	05/03/24 15:33	SM 2320 B	
Bicarbonate Alkalinity	794	---	20.0	mg CaCO3/L	1	05/03/24 15:33	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 15:33	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 15:33	SM 2320 B	
MW-108R-20240429 (A4D1728-06)				Matrix: Water				
Batch: 24E0138								

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Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240429 (A4D1728-06)				Matrix: Water				
Total Alkalinity	2850	---	20.0	mg CaCO3/L	1	05/03/24 15:46	SM 2320 B	
Bicarbonate Alkalinity	2850	---	20.0	mg CaCO3/L	1	05/03/24 15:46	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 15:46	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 15:46	SM 2320 B	
B-6R-20240429 (A4D1728-07)				Matrix: Water				
Batch: 24E0138								
Total Alkalinity	976	---	20.0	mg CaCO3/L	1	05/03/24 16:18	SM 2320 B	
Bicarbonate Alkalinity	976	---	20.0	mg CaCO3/L	1	05/03/24 16:18	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 16:18	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 16:18	SM 2320 B	
B-4R-20240429 (A4D1728-08)				Matrix: Water				
Batch: 24E0138								
Total Alkalinity	380	---	20.0	mg CaCO3/L	1	05/03/24 16:30	SM 2320 B	
Bicarbonate Alkalinity	380	---	20.0	mg CaCO3/L	1	05/03/24 16:30	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 16:30	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	05/03/24 16:30	SM 2320 B	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0126 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (24E0126-BLK1)		Prepared: 05/03/24 06:28 Analyzed: 05/03/24 19:18										
NWTPH-Dx LL												
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %		Dilution: 1x						
LCS (24E0126-BS1)		Prepared: 05/03/24 06:28 Analyzed: 05/03/24 19:38										
NWTPH-Dx LL												
Diesel	395	---	80.0	ug/L	1	500	---	79	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (24E0126-BSD1)		Prepared: 05/03/24 06:28 Analyzed: 05/03/24 19:59										
NWTPH-Dx LL												
Diesel	413	---	80.0	ug/L	1	500	---	83	36 - 132%	4	30%	
Surr: o-Terphenyl (Surr)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 24E0176 - EPA 3510C (Fuels/Acid Ext.)						Water					
Blank (24E0176-BLK1)			Prepared: 05/06/24 06:28			Analyzed: 05/06/24 17:00					
<u>NWTPH-Dx LL</u>											
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---
Surr: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x					
LCS (24E0176-BS1)			Prepared: 05/06/24 06:28			Analyzed: 05/06/24 17:20					
<u>NWTPH-Dx LL</u>											
Diesel	424	---	80.0	ug/L	1	500	---	85	36 - 132%	---	---
Surr: o-Terphenyl (Surr)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x					
LCS Dup (24E0176-BSD1)			Prepared: 05/06/24 06:28			Analyzed: 05/06/24 17:41					
<u>NWTPH-Dx LL</u>											
Diesel	414	---	80.0	ug/L	1	500	---	83	36 - 132%	2	30%
Surr: o-Terphenyl (Surr)		Recovery: 102 %		Limits: 50-150 %		Dilution: 1x					

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A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0176 - EPA 3510C (Fuels/Acid Ext.)								Water				

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0354 - EPA 3510C (Fuels/Acid Ext.) w/SGC							Water					
Blank (24E0354-BLK1)		Prepared: 05/03/24 06:28 Analyzed: 05/09/24 19:19										
NWTPH-Dx/SGC												
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %		Dilution: 1x						
LCS (24E0354-BS1)		Prepared: 05/03/24 06:28 Analyzed: 05/09/24 19:40										
NWTPH-Dx/SGC												
Diesel	342	---	80.0	ug/L	1	500	---	68	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (24E0354-BSD1)		Prepared: 05/03/24 06:28 Analyzed: 05/09/24 20:01										
NWTPH-Dx/SGC												
Diesel	352	---	80.0	ug/L	1	500	---	70	36 - 132%	3	30%	
Surr: o-Terphenyl (Surr)		Recovery: 86 %		Limits: 50-150 %		Dilution: 1x						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Report ID:

A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0355 - EPA 3510C (Fuels/Acid Ext.) w/SGC						Water						
Blank (24E0355-BLK1)		Prepared: 05/06/24 06:28 Analyzed: 05/09/24 19:25										
NWTPH-Dx/SGC												
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 85 %		Limits: 50-150 %		Dilution: 1x						
LCS (24E0355-BS1)		Prepared: 05/06/24 06:28 Analyzed: 05/09/24 19:45										
NWTPH-Dx/SGC												
Diesel	373	---	80.0	ug/L	1	500	---	75	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 86 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (24E0355-BSD1)		Prepared: 05/06/24 06:28 Analyzed: 05/09/24 20:06										
NWTPH-Dx/SGC												
Diesel	385	---	80.0	ug/L	1	500	---	77	36 - 132%	3	30%	
Surr: o-Terphenyl (Surr)		Recovery: 96 %		Limits: 50-150 %		Dilution: 1x						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPL-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0004 - EPA 5030C						Water						
Blank (24E0004-BLK1)		Prepared: 04/01/24 06:30 Analyzed: 05/01/24 09:14										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		115 %		50-150 %		"						
LCS (24E0004-BS2)		Prepared: 04/01/24 06:30 Analyzed: 05/01/24 08:52										
NWTPH-Gx (MS)												
Gasoline Range Organics	484	---	100	ug/L	1	500	---	97	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 89 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		106 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0040 - EPA 5030C						Water						
Blank (24E0040-BLK1)		Prepared: 05/01/24 13:56 Analyzed: 05/01/24 21:17										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		115 %		50-150 %		"						
LCS (24E0040-BS2)		Prepared: 05/01/24 13:56 Analyzed: 05/01/24 20:55										
NWTPH-Gx (MS)												
Gasoline Range Organics	445	---	100	ug/L	1	500	---	89	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 89 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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AMENDED REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0077 - EPA 5030C						Water						
Blank (24E0077-BLK1)		Prepared: 05/02/24 09:46 Analyzed: 05/03/24 08:17										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		106 %		50-150 %		"						
LCS (24E0077-BS2)		Prepared: 05/02/24 09:46 Analyzed: 05/03/24 07:55										
NWTPH-Gx (MS)												
Gasoline Range Organics	459	---	100	ug/L	1	500	---	92	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		100 %		50-150 %		"						
Duplicate (24E0077-DUP1)		Prepared: 05/02/24 09:46 Analyzed: 05/03/24 09:23										
QC Source Sample: MW-104-20240429 (A4D1728-03RE1)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	59.6	---	---	***	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 99 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						

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Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0004 - EPA 5030C												
Water												
Blank (24E0004-BLK1)												
Prepared: 04/01/24 06:30 Analyzed: 05/01/24 09:14												
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 107 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>108 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>92 % 80-120 % "</i>												
LCS (24E0004-BS1)												
Prepared: 04/01/24 06:30 Analyzed: 05/01/24 08:12												
EPA 8260D												
Benzene	21.0	---	0.200	ug/L	1	20.0	---	105	80 - 120%	---	---	
Toluene	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
Ethylbenzene	22.6	---	0.500	ug/L	1	20.0	---	113	80 - 120%	---	---	
Xylenes, total	69.0	---	1.50	ug/L	1	60.0	---	115	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 101 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>103 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>88 % 80-120 % "</i>												
Matrix Spike (24E0004-MS1)												
Prepared: 05/01/24 08:43 Analyzed: 05/01/24 14:20												
QC Source Sample: MW-102R-20240429 (A4D1728-01)												
EPA 8260D												
Benzene	217	---	2.00	ug/L	10	200	ND	108	79 - 120%	---	---	
Toluene	209	---	10.0	ug/L	10	200	ND	104	80 - 121%	---	---	
Ethylbenzene	224	---	5.00	ug/L	10	200	ND	112	79 - 121%	---	---	
Xylenes, total	695	---	15.0	ug/L	10	600	ND	116	79 - 121%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 105 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>103 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>92 % 80-120 % "</i>												

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0040 - EPA 5030C							Water					
Blank (24E0040-BLK1)		Prepared: 05/01/24 13:56 Analyzed: 05/01/24 21:17										
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 108 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		107 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		80-120 %		"						
LCS (24E0040-BS1)		Prepared: 05/01/24 13:56 Analyzed: 05/01/24 20:33										
EPA 8260D												
Benzene	20.6	---	0.200	ug/L	1	20.0	---	103	80 - 120%	---	---	
Toluene	20.2	---	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
Ethylbenzene	21.8	---	0.500	ug/L	1	20.0	---	109	80 - 120%	---	---	
Xylenes, total	67.2	---	1.50	ug/L	1	60.0	---	112	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		89 %		80-120 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0077 - EPA 5030C												
Water												
Blank (24E0077-BLK1)												
Prepared: 05/02/24 09:46 Analyzed: 05/03/24 08:17												
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 104 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>102 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>104 % 80-120 % "</i>												
LCS (24E0077-BS1)												
Prepared: 05/02/24 09:46 Analyzed: 05/03/24 07:33												
EPA 8260D												
Benzene	20.8	---	0.200	ug/L	1	20.0	---	104	80 - 120%	---	---	
Toluene	19.0	---	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Ethylbenzene	21.3	---	0.500	ug/L	1	20.0	---	106	80 - 120%	---	---	
Xylenes, total	59.7	---	1.50	ug/L	1	60.0	---	100	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 98 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>98 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>97 % 80-120 % "</i>												
Duplicate (24E0077-DUP1)												
Prepared: 05/02/24 09:46 Analyzed: 05/03/24 09:23												
QC Source Sample: MW-104-20240429 (A4D1728-03RE1)												
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 101 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>103 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>101 % 80-120 % "</i>												

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Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0134 - EPA 3510C (Acid Extraction)						Water						
Blank (24E0134-BLK1)		Prepared: 05/03/24 08:46 Analyzed: 05/03/24 17:55										
EPA 8270E												
2,3,4,6- & 2,3,4,5-Tetrachlorophenol(s)	ND	---	0.200	ug/L	1	---	---	---	---	---	---	A-01, AMEND
Acenaphthene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Phenol	ND	---	0.400	ug/L	1	---	---	---	---	---	---	

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Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0134 - EPA 3510C (Acid Extraction)						Water						
Blank (24E0134-BLK1)		Prepared: 05/03/24 08:46		Analyzed: 05/03/24 17:55								
2,3,5,6-Tetrachlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 93 %		Limits: 44-120 %		Dilution: 1x						
2-Fluorobiphenyl (Surr)		79 %		44-120 %		"						
Phenol-d6 (Surr)		32 %		10-133 %		"						
p-Terphenyl-d14 (Surr)		96 %		50-134 %		"						
2-Fluorophenol (Surr)		47 %		19-120 %		"						
2,4,6-Tribromophenol (Surr)		85 %		43-140 %		"						
LCS (24E0134-BS1)		Prepared: 05/03/24 08:46		Analyzed: 05/03/24 18:30								
EPA 8270E												
Acenaphthene	3.71	---	0.0800	ug/L	4	4.00	---	93	47 - 122%	---	---	
Acenaphthylene	4.22	---	0.0800	ug/L	4	4.00	---	105	41 - 130%	---	---	
Anthracene	4.16	---	0.0800	ug/L	4	4.00	---	104	57 - 123%	---	---	
Benz(a)anthracene	4.08	---	0.0800	ug/L	4	4.00	---	102	58 - 125%	---	---	
Benzo(a)pyrene	4.06	---	0.120	ug/L	4	4.00	---	101	54 - 128%	---	---	
Benzo(b)fluoranthene	4.14	---	0.120	ug/L	4	4.00	---	104	53 - 131%	---	---	
Benzo(k)fluoranthene	4.16	---	0.120	ug/L	4	4.00	---	104	57 - 129%	---	---	
Benzo(g,h,i)perylene	4.17	---	0.0800	ug/L	4	4.00	---	104	50 - 134%	---	---	
Chrysene	4.03	---	0.0800	ug/L	4	4.00	---	101	59 - 123%	---	---	
Dibenz(a,h)anthracene	3.92	---	0.0800	ug/L	4	4.00	---	98	51 - 134%	---	---	
Fluoranthene	4.39	---	0.0800	ug/L	4	4.00	---	110	57 - 128%	---	---	
Fluorene	4.22	---	0.0800	ug/L	4	4.00	---	105	52 - 124%	---	---	
Indeno(1,2,3-cd)pyrene	3.78	---	0.0800	ug/L	4	4.00	---	95	52 - 134%	---	---	
1-Methylnaphthalene	3.62	---	0.160	ug/L	4	4.00	---	91	41 - 120%	---	---	
2-Methylnaphthalene	3.58	---	0.160	ug/L	4	4.00	---	90	40 - 121%	---	---	
Naphthalene	3.50	---	0.160	ug/L	4	4.00	---	87	40 - 121%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0134 - EPA 3510C (Acid Extraction)							Water					
LCS (24E0134-BS1)		Prepared: 05/03/24 08:46		Analyzed: 05/03/24 18:30								
Phenanthrene	4.07	---	0.0800	ug/L	4	4.00	---	102	59 - 120%	---	---	
Pyrene	4.25	---	0.0800	ug/L	4	4.00	---	106	57 - 126%	---	---	
Carbazole	4.46	---	0.120	ug/L	4	4.00	---	112	60 - 122%	---	---	
Dibenzofuran	4.01	---	0.0800	ug/L	4	4.00	---	100	53 - 120%	---	---	
2-Chlorophenol	3.28	---	0.400	ug/L	4	4.00	---	82	38 - 120%	---	---	
4-Chloro-3-methylphenol	4.12	---	0.800	ug/L	4	4.00	---	103	52 - 120%	---	---	Q-41
2,4-Dichlorophenol	4.10	---	0.400	ug/L	4	4.00	---	102	47 - 121%	---	---	Q-41
2,4-Dimethylphenol	2.79	---	2.00	ug/L	4	4.00	---	70	31 - 124%	---	---	
2,4-Dinitrophenol	5.00	---	2.00	ug/L	4	4.00	---	125	23 - 143%	---	---	Q-41
4,6-Dinitro-2-methylphenol	4.76	---	2.00	ug/L	4	4.00	---	119	44 - 137%	---	---	Q-41
2-Methylphenol	2.70	---	0.200	ug/L	4	4.00	---	68	30 - 120%	---	---	
3+4-Methylphenol(s)	2.65	---	0.200	ug/L	4	4.00	---	66	29 - 120%	---	---	
2-Nitrophenol	3.72	---	0.800	ug/L	4	4.00	---	93	47 - 123%	---	---	
4-Nitrophenol	1.72	---	0.800	ug/L	4	4.00	---	43	10 - 120%	---	---	Q-41
Pentachlorophenol (PCP)	4.02	---	0.800	ug/L	4	4.00	---	101	35 - 138%	---	---	
Phenol	1.17	---	0.800	ug/L	4	4.00	---	29	10 - 120%	---	---	
2,3,4,6-Tetrachlorophenol	4.24	---	0.400	ug/L	4	4.00	---	106	50 - 128%	---	---	
2,3,5,6-Tetrachlorophenol	4.49	---	0.400	ug/L	4	4.00	---	112	50 - 121%	---	---	Q-41
2,4,5-Trichlorophenol	4.94	---	0.400	ug/L	4	4.00	---	124	53 - 123%	---	---	Q-29, Q-41
2,4,6-Trichlorophenol	4.49	---	0.400	ug/L	4	4.00	---	112	50 - 125%	---	---	Q-41
Bis(2-ethylhexyl)phthalate	4.06	---	1.60	ug/L	4	4.00	---	101	55 - 135%	---	---	
Butyl benzyl phthalate	4.20	---	1.60	ug/L	4	4.00	---	105	53 - 134%	---	---	
Diethylphthalate	4.12	---	1.60	ug/L	4	4.00	---	103	56 - 125%	---	---	
Dimethylphthalate	4.28	---	1.60	ug/L	4	4.00	---	107	45 - 127%	---	---	
Di-n-butylphthalate	4.41	---	1.60	ug/L	4	4.00	---	110	59 - 127%	---	---	
Di-n-octyl phthalate	4.05	---	1.60	ug/L	4	4.00	---	101	51 - 140%	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 92 %		Limits: 44-120 %		Dilution: 4x						
2-Fluorobiphenyl (Surr)		95 %		44-120 %		"						
Phenol-d6 (Surr)		29 %		10-133 %		"						
p-Terphenyl-d14 (Surr)		105 %		50-134 %		"						
2-Fluorophenol (Surr)		49 %		19-120 %		"						
2,4,6-Tribromophenol (Surr)		115 %		43-140 %		"						

LCS Dup (24E0134-BSD1)

Prepared: 05/03/24 08:46 Analyzed: 05/03/24 19:04

Q-19

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ANALYTICAL REPORT

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Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0134 - EPA 3510C (Acid Extraction)							Water					
LCS Dup (24E0134-BSD1)		Prepared: 05/03/24 08:46		Analyzed: 05/03/24 19:04		Q-19						
EPA 8270E												
Acenaphthene	3.70	---	0.0800	ug/L	4	4.00	---	92	47 - 122%	0.4	30%	
Acenaphthylene	4.28	---	0.0800	ug/L	4	4.00	---	107	41 - 130%	1	30%	
Anthracene	4.21	---	0.0800	ug/L	4	4.00	---	105	57 - 123%	1	30%	
Benz(a)anthracene	4.13	---	0.0800	ug/L	4	4.00	---	103	58 - 125%	1	30%	
Benzo(a)pyrene	4.11	---	0.120	ug/L	4	4.00	---	103	54 - 128%	1	30%	
Benzo(b)fluoranthene	4.15	---	0.120	ug/L	4	4.00	---	104	53 - 131%	0.2	30%	
Benzo(k)fluoranthene	4.13	---	0.120	ug/L	4	4.00	---	103	57 - 129%	0.7	30%	
Benzo(g,h,i)perylene	4.18	---	0.0800	ug/L	4	4.00	---	104	50 - 134%	0.3	30%	
Chrysene	4.00	---	0.0800	ug/L	4	4.00	---	100	59 - 123%	0.7	30%	
Dibenz(a,h)anthracene	3.92	---	0.0800	ug/L	4	4.00	---	98	51 - 134%	0.07	30%	
Fluoranthene	4.42	---	0.0800	ug/L	4	4.00	---	111	57 - 128%	0.7	30%	
Fluorene	4.26	---	0.0800	ug/L	4	4.00	---	106	52 - 124%	1	30%	
Indeno(1,2,3-cd)pyrene	3.77	---	0.0800	ug/L	4	4.00	---	94	52 - 134%	0.2	30%	
1-Methylnaphthalene	3.74	---	0.160	ug/L	4	4.00	---	93	41 - 120%	3	30%	
2-Methylnaphthalene	3.75	---	0.160	ug/L	4	4.00	---	94	40 - 121%	5	30%	
Naphthalene	3.65	---	0.160	ug/L	4	4.00	---	91	40 - 121%	4	30%	
Phenanthrene	4.02	---	0.0800	ug/L	4	4.00	---	100	59 - 120%	1	30%	
Pyrene	4.29	---	0.0800	ug/L	4	4.00	---	107	57 - 126%	0.9	30%	
Carbazole	4.52	---	0.120	ug/L	4	4.00	---	113	60 - 122%	1	30%	
Dibenzofuran	4.16	---	0.0800	ug/L	4	4.00	---	104	53 - 120%	4	30%	
2-Chlorophenol	3.37	---	0.400	ug/L	4	4.00	---	84	38 - 120%	3	30%	
4-Chloro-3-methylphenol	4.35	---	0.800	ug/L	4	4.00	---	109	52 - 120%	5	30%	Q-41
2,4-Dichlorophenol	4.28	---	0.400	ug/L	4	4.00	---	107	47 - 121%	4	30%	Q-41
2,4-Dimethylphenol	2.88	---	2.00	ug/L	4	4.00	---	72	31 - 124%	3	30%	
2,4-Dinitrophenol	5.41	---	2.00	ug/L	4	4.00	---	135	23 - 143%	8	30%	Q-41
4,6-Dinitro-2-methylphenol	5.12	---	2.00	ug/L	4	4.00	---	128	44 - 137%	7	30%	Q-41
2-Methylphenol	2.89	---	0.200	ug/L	4	4.00	---	72	30 - 120%	7	30%	
3+4-Methylphenol(s)	2.83	---	0.200	ug/L	4	4.00	---	71	29 - 120%	7	30%	
2-Nitrophenol	3.83	---	0.800	ug/L	4	4.00	---	96	47 - 123%	3	30%	
4-Nitrophenol	1.89	---	0.800	ug/L	4	4.00	---	47	10 - 120%	9	30%	Q-41
Pentachlorophenol (PCP)	3.99	---	0.800	ug/L	4	4.00	---	100	35 - 138%	0.8	30%	
Phenol	1.23	---	0.800	ug/L	4	4.00	---	31	10 - 120%	5	30%	
2,3,4,6-Tetrachlorophenol	4.26	---	0.400	ug/L	4	4.00	---	107	50 - 128%	0.6	30%	

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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0134 - EPA 3510C (Acid Extraction)						Water						
LCS Dup (24E0134-BSD1)	Prepared: 05/03/24 08:46 Analyzed: 05/03/24 19:04											Q-19
2,3,5,6-Tetrachlorophenol	4.58	---	0.400	ug/L	4	4.00	---	114	50 - 121%	2	30%	Q-41
2,4,5-Trichlorophenol	5.10	---	0.400	ug/L	4	4.00	---	127	53 - 123%	3	30%	Q-29, Q-41
2,4,6-Trichlorophenol	4.53	---	0.400	ug/L	4	4.00	---	113	50 - 125%	0.9	30%	Q-41
Bis(2-ethylhexyl)phthalate	3.91	---	1.60	ug/L	4	4.00	---	98	55 - 135%	4	30%	
Butyl benzyl phthalate	4.19	---	1.60	ug/L	4	4.00	---	105	53 - 134%	0.1	30%	
Diethylphthalate	4.12	---	1.60	ug/L	4	4.00	---	103	56 - 125%	0.05	30%	
Dimethylphthalate	4.23	---	1.60	ug/L	4	4.00	---	106	45 - 127%	1	30%	
Di-n-butylphthalate	4.47	---	1.60	ug/L	4	4.00	---	112	59 - 127%	1	30%	
Di-n-octyl phthalate	3.95	---	1.60	ug/L	4	4.00	---	99	51 - 140%	3	30%	
Surr: Nitrobenzene-d5 (Surr)	Recovery: 95 % Limits: 44-120 % Dilution: 4x											
2-Fluorobiphenyl (Surr)	91 % 44-120 % "											
Phenol-d6 (Surr)	30 % 10-133 % "											
p-Terphenyl-d14 (Surr)	101 % 50-134 % "											
2-Fluorophenol (Surr)	49 % 19-120 % "											
2,4,6-Tribromophenol (Surr)	111 % 43-140 % "											

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0261 - EPA 3015A							Water					
Blank (24E0261-BLK1)		Prepared: 05/07/24 14:57 Analyzed: 05/08/24 06:33										
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (24E0261-BS1)		Prepared: 05/07/24 14:57 Analyzed: 05/08/24 06:39										
EPA 6020B												
Arsenic	59.1	---	1.00	ug/L	1	55.6	---	106	80 - 120%	---	---	
Duplicate (24E0261-DUP1)		Prepared: 05/07/24 14:57 Analyzed: 05/08/24 07:46										
QC Source Sample: MW-102R-20240429 (A4D1728-01)												
EPA 6020B												
Arsenic	2.22	---	1.00	ug/L	1	---	2.24	---	---	1	20%	
Matrix Spike (24E0261-MS1)		Prepared: 05/07/24 14:57 Analyzed: 05/08/24 08:07										
QC Source Sample: MW-105-20240429 (A4D1728-02)												
EPA 6020B												
Arsenic	66.0	---	1.00	ug/L	1	55.6	5.47	109	75 - 125%	---	---	

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Project Manager: Suzy Stumpf

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A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0254 - Matrix Matched Direct Inject							Water					
Blank (24E0254-BLK1)		Prepared: 05/07/24 12:57 Analyzed: 05/07/24 23:56										
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (24E0254-BS1)		Prepared: 05/07/24 12:57 Analyzed: 05/08/24 00:02										
EPA 6020B (Diss)												
Arsenic	58.0	---	1.00	ug/L	1	55.6	---	104	80 - 120%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project Manager: Suzy Stumpf

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A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0361 - Matrix Matched Direct Inject							Water					
Blank (24E0361-BLK1)		Prepared: 05/09/24 13:25			Analyzed: 05/10/24 20:22							
<u>EPA 6020B (Diss)</u>												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (24E0361-BS1)		Prepared: 05/09/24 13:25			Analyzed: 05/10/24 20:29							
<u>EPA 6020B (Diss)</u>												
Arsenic	56.2	---	1.00	ug/L	1	55.6	---	101	80 - 120%	---	---	
Duplicate (24E0361-DUP1)		Prepared: 05/09/24 13:25			Analyzed: 05/10/24 20:41							
<u>QC Source Sample: B-4R-20240429 (A4D1728-08)</u>												
<u>EPA 6020B (Diss)</u>												
Arsenic	3.64	---	1.00	ug/L	1	---	3.68	---	---	0.9	20%	
Matrix Spike (24E0361-MS1)		Prepared: 05/09/24 13:25			Analyzed: 05/10/24 20:47							
<u>QC Source Sample: B-4R-20240429 (A4D1728-08)</u>												
<u>EPA 6020B (Diss)</u>												
Arsenic	60.1	---	1.00	ug/L	1	55.6	3.68	102	75 - 125%	---	---	

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Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0666 - Matrix Matched Direct Inject							Water					
Blank (24E0666-BLK1)		Prepared: 05/18/24 12:18			Analyzed: 05/20/24 23:58							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	FILT3
LCS (24E0666-BS1)		Prepared: 05/18/24 12:18			Analyzed: 05/21/24 00:04							
EPA 6020B (Diss)												
Arsenic	55.7	---	1.00	ug/L	1	55.6	---	100	80 - 120%	---	---	
Duplicate (24E0666-DUP1)		Prepared: 05/18/24 12:18			Analyzed: 05/21/24 00:15							
QC Source Sample: MW-102R-20240429 (A4D1728-01RE1)												
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	0.568	---	---	***	20%	FILT1,H-12
Matrix Spike (24E0666-MS1)		Prepared: 05/18/24 12:18			Analyzed: 05/21/24 00:27							
QC Source Sample: MW-105-20240429 (A4D1728-02RE1)												
EPA 6020B (Diss)												
Arsenic	59.9	---	1.00	ug/L	1	55.6	1.66	105	75 - 125%	---	---	FILT1,H-12

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Project Manager: Suzy Stumpf

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A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24D1165 - Method Prep: Aq							Water					
Blank (24D1165-BLK1)		Prepared: 04/30/24 17:55 Analyzed: 04/30/24 18:46										
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (24D1165-BS1)		Prepared: 04/30/24 17:55 Analyzed: 04/30/24 19:08										
EPA 300.0												
Nitrate-Nitrogen	2.06	---	0.250	mg/L	1	2.00	---	103	90 - 110%	---	---	
Sulfate	8.28	---	1.00	mg/L	1	8.00	---	104	90 - 110%	---	---	
Duplicate (24D1165-DUP1)		Prepared: 04/30/24 17:55 Analyzed: 04/30/24 20:12										
QC Source Sample: MW-102R-20240429 (A4D1728-01)												
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	ND	---	---	---	3%	
Sulfate	ND	---	1.00	mg/L	1	---	ND	---	---	---	4%	
Duplicate (24D1165-DUP2)		Prepared: 04/30/24 17:55 Analyzed: 05/01/24 00:09										
QC Source Sample: B-4R-20240429 (A4D1728-08)												
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	ND	---	---	---	3%	
Sulfate	ND	---	1.00	mg/L	1	---	0.557	---	---	***	4%	Q-05
Matrix Spike (24D1165-MS1)		Prepared: 04/30/24 17:55 Analyzed: 04/30/24 20:34										
QC Source Sample: MW-102R-20240429 (A4D1728-01)												
EPA 300.0												
Nitrate-Nitrogen	2.51	---	0.312	mg/L	1	2.50	ND	100	87 - 112%	---	---	
Sulfate	11.0	---	1.25	mg/L	1	10.0	ND	110	88 - 115%	---	---	
Matrix Spike (24D1165-MS2)		Prepared: 04/30/24 17:55 Analyzed: 05/01/24 00:31										
QC Source Sample: B-4R-20240429 (A4D1728-08)												
EPA 300.0												
Nitrate-Nitrogen	2.56	---	0.312	mg/L	1	2.50	ND	103	87 - 112%	---	---	
Sulfate	11.4	---	1.25	mg/L	1	10.0	ND	114	88 - 115%	---	---	

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Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0112 - Total Dissolved Solids - 2022							Water					
Blank (24E0112-BLK1)		Prepared: 05/02/24 19:08			Analyzed: 05/02/24 19:08							
SM 2540 C												
Total Dissolved Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Reference (24E0112-SRM1)		Prepared: 05/02/24 19:08			Analyzed: 05/02/24 19:08							
SM 2540 C												
Total Dissolved Solids	2500	---		mg/L	1	2470		101	81.8 - 118.2%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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ANALYTICAL REPORT

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Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0156 - Total Suspended Solids - 2022							Water					
Blank (24E0156-BLK1)		Prepared: 05/03/24 14:59			Analyzed: 05/03/24 14:59							
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (24E0156-DUP1)		Prepared: 05/03/24 14:59			Analyzed: 05/03/24 14:59							
QC Source Sample: MW-102R-20240429 (A4D1728-01)												
SM 2540 D												
Total Suspended Solids	17.0	---	5.00	mg/L	1	---	18.0	---	---	5.71	10%	TSS
Reference (24E0156-SRM1)		Prepared: 05/03/24 14:59			Analyzed: 05/03/24 14:59							
SM 2540 D												
Total Suspended Solids	922	---		mg/L	1	875		105	85 - 115%	---	---	

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Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0214 - Total Dissolved Solids - 2022							Water					
Blank (24E0214-BLK1)		Prepared: 05/06/24 19:18			Analyzed: 05/06/24 19:18							
SM 2540 C												
Total Dissolved Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (24E0214-DUP1)		Prepared: 05/06/24 19:18			Analyzed: 05/06/24 19:18							
QC Source Sample: MW-108R-20240429 (A4D1728-06)												
SM 2540 C												
Total Dissolved Solids	11900	---	500	mg/L	1	---	12100	---	---	1.67	10%	
Reference (24E0214-SRM1)		Prepared: 05/06/24 19:18			Analyzed: 05/06/24 19:18							
SM 2540 C												
Total Dissolved Solids	2550	---		mg/L	1	2470		103	82 - 118%	---	---	

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Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0138 - Method Prep: Aq							Water					
Blank (24E0138-BLK1)		Prepared: 05/03/24 09:14 Analyzed: 05/03/24 10:40										
SM 2320 B												
Total Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
Bicarbonate Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
Carbonate Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
Hydroxide Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
LCS (24E0138-BS1)		Prepared: 05/03/24 09:14 Analyzed: 05/03/24 10:45										
SM 2320 B												
Total Alkalinity	102	---	20.0	mg	1	100	---	102	90 - 115%	---	---	
				CaCO3/L								

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0126							
A4D1728-01	Water	NWTPH-Dx LL	04/29/24 10:20	05/03/24 06:28	1000mL/2mL	1000mL/2mL	1.00
A4D1728-02	Water	NWTPH-Dx LL	04/29/24 12:25	05/03/24 06:28	1020mL/2mL	1000mL/2mL	0.98
A4D1728-04	Water	NWTPH-Dx LL	04/29/24 09:48	05/03/24 06:28	1070mL/2mL	1000mL/2mL	0.94
Batch: 24E0176							
A4D1728-03	Water	NWTPH-Dx LL	04/29/24 14:00	05/06/24 06:28	950mL/2mL	1000mL/2mL	1.05
A4D1728-05	Water	NWTPH-Dx LL	04/29/24 14:13	05/06/24 06:28	1040mL/2mL	1000mL/2mL	0.96
A4D1728-06	Water	NWTPH-Dx LL	04/29/24 12:15	05/06/24 06:28	1040mL/2mL	1000mL/2mL	0.96
A4D1728-07	Water	NWTPH-Dx LL	04/29/24 16:33	05/06/24 06:28	960mL/2mL	1000mL/2mL	1.04
A4D1728-08	Water	NWTPH-Dx LL	04/29/24 18:44	05/06/24 06:28	1000mL/2mL	1000mL/2mL	1.00

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Prep: EPA 3510C (Fuels/Acid Ext.) w/SGC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0354							
A4D1728-01	Water	NWTPH-Dx/SGC	04/29/24 10:20	05/03/24 06:28	1000mL/2mL	1000mL/2mL	1.00
A4D1728-02	Water	NWTPH-Dx/SGC	04/29/24 12:25	05/03/24 06:28	1020mL/2mL	1000mL/2mL	0.98
A4D1728-04	Water	NWTPH-Dx/SGC	04/29/24 09:48	05/03/24 06:28	1070mL/2mL	1000mL/2mL	0.94
Batch: 24E0355							
A4D1728-03	Water	NWTPH-Dx/SGC	04/29/24 14:00	05/06/24 06:28	950mL/2mL	1000mL/2mL	1.05
A4D1728-05	Water	NWTPH-Dx/SGC	04/29/24 14:13	05/06/24 06:28	1040mL/2mL	1000mL/2mL	0.96
A4D1728-06	Water	NWTPH-Dx/SGC	04/29/24 12:15	05/06/24 06:28	1040mL/2mL	1000mL/2mL	0.96
A4D1728-07	Water	NWTPH-Dx/SGC	04/29/24 16:33	05/06/24 06:28	960mL/2mL	1000mL/2mL	1.04
A4D1728-08	Water	NWTPH-Dx/SGC	04/29/24 18:44	05/06/24 06:28	1000mL/2mL	1000mL/2mL	1.00

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0040							
A4D1728-01RE1	Water	NWTPH-Gx (MS)	04/29/24 10:20	05/01/24 08:43	5mL/5mL	5mL/5mL	1.00
Batch: 24E0077							
A4D1728-02RE1	Water	NWTPH-Gx (MS)	04/29/24 12:25	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00
A4D1728-03RE1	Water	NWTPH-Gx (MS)	04/29/24 14:00	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00
A4D1728-04RE1	Water	NWTPH-Gx (MS)	04/29/24 09:48	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00

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ORELAP ID: OR100062

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329****SAMPLE PREPARATION INFORMATION****Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx****Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A4D1728-05RE1	Water	NWTPH-Gx (MS)	04/29/24 14:13	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00
A4D1728-06RE1	Water	NWTPH-Gx (MS)	04/29/24 12:15	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00
A4D1728-07RE1	Water	NWTPH-Gx (MS)	04/29/24 16:33	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00
A4D1728-08RE1	Water	NWTPH-Gx (MS)	04/29/24 18:44	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00

BTEX Compounds by EPA 8260D**Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0040							
A4D1728-01RE1	Water	EPA 8260D	04/29/24 10:20	05/01/24 08:43	5mL/5mL	5mL/5mL	1.00
Batch: 24E0077							
A4D1728-02RE1	Water	EPA 8260D	04/29/24 12:25	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00
A4D1728-03RE1	Water	EPA 8260D	04/29/24 14:00	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00
A4D1728-04RE1	Water	EPA 8260D	04/29/24 09:48	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00
A4D1728-05RE1	Water	EPA 8260D	04/29/24 14:13	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00
A4D1728-06RE1	Water	EPA 8260D	04/29/24 12:15	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00
A4D1728-07RE1	Water	EPA 8260D	04/29/24 16:33	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00
A4D1728-08RE1	Water	EPA 8260D	04/29/24 18:44	05/02/24 09:46	5mL/5mL	5mL/5mL	1.00

Selected Semivolatile Organic Compounds by EPA 8270E**Prep: EPA 3510C (Acid Extraction)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0134							
A4D1728-01RE1	Water	EPA 8270E	04/29/24 10:20	05/03/24 08:46	1000mL/1mL	1000mL/1mL	1.00
A4D1728-02	Water	EPA 8270E	04/29/24 12:25	05/03/24 08:46	1070mL/1mL	1000mL/1mL	0.94
A4D1728-03RE1	Water	EPA 8270E	04/29/24 14:00	05/03/24 08:46	950mL/1mL	1000mL/1mL	1.05
A4D1728-04RE1	Water	EPA 8270E	04/29/24 09:48	05/03/24 08:46	1060mL/1mL	1000mL/1mL	0.94
A4D1728-05	Water	EPA 8270E	04/29/24 14:13	05/03/24 08:46	1040mL/1mL	1000mL/1mL	0.96
A4D1728-06RE2	Water	EPA 8270E	04/29/24 12:15	05/03/24 08:46	1040mL/1mL	1000mL/1mL	0.96
A4D1728-07RE2	Water	EPA 8270E	04/29/24 16:33	05/03/24 08:46	1010mL/1mL	1000mL/1mL	0.99
A4D1728-08RE1	Water	EPA 8270E	04/29/24 18:44	05/03/24 08:46	1000mL/1mL	1000mL/1mL	1.00

Total Metals by EPA 6020B (ICPMS)

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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0261							
A4D1728-01	Water	EPA 6020B	04/29/24 10:20	05/07/24 14:57	45mL/50mL	45mL/50mL	1.00
A4D1728-02	Water	EPA 6020B	04/29/24 12:25	05/07/24 14:57	45mL/50mL	45mL/50mL	1.00
A4D1728-03	Water	EPA 6020B	04/29/24 14:00	05/07/24 14:57	45mL/50mL	45mL/50mL	1.00
A4D1728-04	Water	EPA 6020B	04/29/24 09:48	05/07/24 14:57	45mL/50mL	45mL/50mL	1.00
A4D1728-05	Water	EPA 6020B	04/29/24 14:13	05/07/24 14:57	45mL/50mL	45mL/50mL	1.00
A4D1728-06	Water	EPA 6020B	04/29/24 12:15	05/07/24 14:57	45mL/50mL	45mL/50mL	1.00
A4D1728-07	Water	EPA 6020B	04/29/24 16:33	05/07/24 14:57	45mL/50mL	45mL/50mL	1.00
A4D1728-08	Water	EPA 6020B	04/29/24 18:44	05/07/24 14:57	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0254							
A4D1728-01	Water	EPA 6020B (Diss)	04/29/24 10:20	05/07/24 12:57	45mL/50mL	45mL/50mL	1.00
A4D1728-02	Water	EPA 6020B (Diss)	04/29/24 12:25	05/07/24 12:57	45mL/50mL	45mL/50mL	1.00
A4D1728-03	Water	EPA 6020B (Diss)	04/29/24 14:00	05/07/24 12:57	45mL/50mL	45mL/50mL	1.00
A4D1728-04	Water	EPA 6020B (Diss)	04/29/24 09:48	05/07/24 12:57	45mL/50mL	45mL/50mL	1.00
A4D1728-05	Water	EPA 6020B (Diss)	04/29/24 14:13	05/07/24 12:57	45mL/50mL	45mL/50mL	1.00
A4D1728-06	Water	EPA 6020B (Diss)	04/29/24 12:15	05/07/24 12:57	45mL/50mL	45mL/50mL	1.00
A4D1728-07	Water	EPA 6020B (Diss)	04/29/24 16:33	05/07/24 12:57	45mL/50mL	45mL/50mL	1.00
Batch: 24E0361							
A4D1728-08	Water	EPA 6020B (Diss)	04/29/24 18:44	05/09/24 13:25	45mL/50mL	45mL/50mL	1.00
Batch: 24E0666							
A4D1728-01RE1	Water	EPA 6020B (Diss)	04/29/24 10:20	05/18/24 12:18	45mL/50mL	45mL/50mL	1.00
A4D1728-02RE1	Water	EPA 6020B (Diss)	04/29/24 12:25	05/18/24 12:18	45mL/50mL	45mL/50mL	1.00
A4D1728-04RE2	Water	EPA 6020B (Diss)	04/29/24 09:48	05/18/24 12:18	45mL/50mL	45mL/50mL	1.00
A4D1728-05RE2	Water	EPA 6020B (Diss)	04/29/24 14:13	05/18/24 12:18	45mL/50mL	45mL/50mL	1.00
A4D1728-07RE2	Water	EPA 6020B (Diss)	04/29/24 16:33	05/18/24 12:18	45mL/50mL	45mL/50mL	1.00
A4D1728-08RE2	Water	EPA 6020B (Diss)	04/29/24 18:44	05/18/24 12:18	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
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ORELAP ID: OR100062

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Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

SAMPLE PREPARATION INFORMATION

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24D1165							
A4D1728-01	Water	EPA 300.0	04/29/24 10:20	04/30/24 17:55	5mL/5mL	5mL/5mL	1.00
A4D1728-02	Water	EPA 300.0	04/29/24 12:25	04/30/24 17:55	5mL/5mL	5mL/5mL	1.00
A4D1728-03	Water	EPA 300.0	04/29/24 14:00	04/30/24 17:55	5mL/5mL	5mL/5mL	1.00
A4D1728-04	Water	EPA 300.0	04/29/24 09:48	04/30/24 17:55	5mL/5mL	5mL/5mL	1.00
A4D1728-05	Water	EPA 300.0	04/29/24 14:13	04/30/24 17:55	5mL/5mL	5mL/5mL	1.00
A4D1728-06	Water	EPA 300.0	04/29/24 12:15	04/30/24 17:55	5mL/5mL	5mL/5mL	1.00
A4D1728-07	Water	EPA 300.0	04/29/24 16:33	04/30/24 17:55	5mL/5mL	5mL/5mL	1.00
A4D1728-08	Water	EPA 300.0	04/29/24 18:44	04/30/24 17:55	5mL/5mL	5mL/5mL	1.00

Solid and Moisture Determinations

Prep: Total Dissolved Solids - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0112							
A4D1728-01	Water	SM 2540 C	04/29/24 10:20	05/02/24 19:08	20mL	100mL	5.00
A4D1728-02	Water	SM 2540 C	04/29/24 12:25	05/02/24 19:08	10mL	100mL	10.00
A4D1728-03	Water	SM 2540 C	04/29/24 14:00	05/02/24 19:08	100mL	100mL	1.00
A4D1728-04	Water	SM 2540 C	04/29/24 09:48	05/02/24 19:08	50mL	100mL	2.00
A4D1728-05	Water	SM 2540 C	04/29/24 14:13	05/02/24 19:08	50mL	100mL	2.00
Batch: 24E0214							
A4D1728-06	Water	SM 2540 C	04/29/24 12:15	05/06/24 19:18	1mL	100mL	100.00
A4D1728-07	Water	SM 2540 C	04/29/24 16:33	05/06/24 19:18	50mL	100mL	2.00
A4D1728-08	Water	SM 2540 C	04/29/24 18:44	05/06/24 19:18	100mL	100mL	1.00

Prep: Total Suspended Solids - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0156							
A4D1728-01	Water	SM 2540 D	04/29/24 10:20	05/03/24 14:59	100mL	100mL	1.00
A4D1728-02	Water	SM 2540 D	04/29/24 12:25	05/03/24 14:59	100mL	100mL	1.00
A4D1728-03	Water	SM 2540 D	04/29/24 14:00	05/03/24 14:59	100mL	100mL	1.00
A4D1728-04	Water	SM 2540 D	04/29/24 09:48	05/03/24 14:59	100mL	100mL	1.00
A4D1728-05	Water	SM 2540 D	04/29/24 14:13	05/03/24 14:59	100mL	100mL	1.00
A4D1728-06	Water	SM 2540 D	04/29/24 12:15	05/03/24 14:59	100mL	100mL	1.00
A4D1728-07	Water	SM 2540 D	04/29/24 16:33	05/03/24 14:59	100mL	100mL	1.00
A4D1728-08	Water	SM 2540 D	04/29/24 18:44	05/03/24 14:59	100mL	100mL	1.00

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329**

SAMPLE PREPARATION INFORMATION

Conventional Chemistry Parameters

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24E0138</u>							
A4D1728-01	Water	SM 2320 B	04/29/24 10:20	05/03/24 09:14	60mL/60mL	60mL/60mL	NA
A4D1728-02	Water	SM 2320 B	04/29/24 12:25	05/03/24 09:14	60mL/60mL	60mL/60mL	NA
A4D1728-03	Water	SM 2320 B	04/29/24 14:00	05/03/24 09:14	60mL/60mL	60mL/60mL	NA
A4D1728-04	Water	SM 2320 B	04/29/24 09:48	05/03/24 09:14	60mL/60mL	60mL/60mL	NA
A4D1728-05	Water	SM 2320 B	04/29/24 14:13	05/03/24 09:14	60mL/60mL	60mL/60mL	NA
A4D1728-06	Water	SM 2320 B	04/29/24 12:15	05/03/24 09:14	60mL/60mL	60mL/60mL	NA
A4D1728-07	Water	SM 2320 B	04/29/24 16:33	05/03/24 09:14	60mL/60mL	60mL/60mL	NA
A4D1728-08	Water	SM 2320 B	04/29/24 18:44	05/03/24 09:14	60mL/60mL	60mL/60mL	NA

Lab Filtration

Prep: Lab Filtration

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24E0581</u>							
A4D1728-01	Water	NA	04/29/24 10:20	05/15/24 17:38	150mL/150mL		NA
A4D1728-02	Water	NA	04/29/24 12:25	05/15/24 17:43	150mL/150mL		NA
A4D1728-03	Water	NA	04/29/24 14:00	05/15/24 17:46	150mL/150mL		NA
A4D1728-04	Water	NA	04/29/24 09:48	05/15/24 17:47	150mL/150mL		NA
A4D1728-05	Water	NA	04/29/24 14:13	05/15/24 17:40	150mL/150mL		NA
A4D1728-06	Water	NA	04/29/24 12:15	05/15/24 17:44	150mL/150mL		NA
A4D1728-07	Water	NA	04/29/24 16:33	05/15/24 17:45	150mL/150mL		NA
A4D1728-08	Water	NA	04/29/24 18:44	05/15/24 17:48	150mL/150mL		NA

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Cameron O'Brien, Project Manager

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329****QUALIFIER DEFINITIONS****Client Sample and Quality Control (QC) Sample Qualifier Definitions:****Apex Laboratories**

- A-01** Due to coelution of isomers, 2,3,4,6- and 2,3,4,5-Tetrachlorophenol (TCP) are reported as a sum and are Estimated Values. Results are calculated using the response factor of 2,3,4,6-TCP. Batch results accepted based on spike recovery of 2,3,4,6-TCP.
- AMEND** The Result, Reporting Level, Recovery and/or RPD has changed. Note: Batch QC marked as AMENDED may or may not have been issued prior to the change. Case Narrative included if client data is affected.
- F-03** The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- F-11** The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
- F-12** The result for this hydrocarbon range is primarily due to the presence of individual analyte peaks in the quantitation range. No fuel pattern detected.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- F-17** No fuel pattern detected. The Diesel result represents carbon range C10 to C25, and the Oil result represents >C25 to C40.
- FILT1** Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
- FILT3** This is a laboratory filtration blank, associated with filtration batch 24E0581. See Prep page of report for associated samples.
- H-12** Sample Analysis or Filtration was performed >15 minutes after sample collection. Consult regulator or permit manager to determine the usability of data for intended use.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TSS** Dried residue was less than 2.5mg as specified in the method. Results meet regulatory requirements.

Apex Laboratories

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Cameron O'Brien, Project Manager

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329****REPORTING NOTES AND CONVENTIONS:****Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported.
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

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Cameron O'Brien, Project Manager

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329****REPORTING NOTES AND CONVENTIONS (Cont.):****Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).

Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:**Mixed Matrix Samples:****Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

Decanted Samples:

Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight correction as for normal analyses.

In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

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Cameron O'Brien, Project Manager

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **Suzy Stumpf****Report ID:****A4D1728 - 04 10 25 1329****LABORATORY ACCREDITATION INFORMATION****ORELAP Certification ID: OR100062 (Primary Accreditation)****EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
--------	----------	--------	---------	--------	---------------

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Cameron O'Brien, Project Manager



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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: Suzy Stumpf

Report ID:

A4D1728 - 04 10 25 1329

APEX LABS COOLER RECEIPT FORM

Client: Farallon ~~Seattle~~ Issaquah Element WO#: A4 D1728Project/Project #: Union Station Property / 2644-001

Delivery Info:

Date/time received: 4/30/24 @ 1515 By: ESTDelivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☒ Other ☐From USDA Regulated Origin? Yes ☐ No ☒Cooler Inspection Date/time inspected: 4/30/24 @ 1515 By: ESTChain of Custody included? Yes ☐ No ☐Signed/dated by client? Yes ☐ No ☐Contains USDA Reg. Soils? Yes ☐ No ☒ Unsure (email RegSoils) ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.2</u>	<u>4.4</u>	<u>4.3</u>	<u>2.0</u>			
Custody seals? (Y/N)	<u>N</u>	<u>N</u>	<u>N</u>	<u>N</u>			
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>			
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>			
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>	<u>Real</u>	<u>Real</u>			
Condition (In/Out):	<u>In</u>	<u>In</u>	<u>In</u>	<u>In</u>			

Cooler out of temp? (Y/N) Possible reason why: (N)Green dots applied to out of temperature samples? Yes ☐ No ☒Out of temperature samples form initiated? Yes ☐ No ☒Sample Inspection: Date/time inspected: 4/30/24 @ 1709 By: KABAll samples intact? Yes ☒ No ☐ Comments: Bottle labels/COCs agree? Yes ☐ No ☒ Comments: See formCOC/container discrepancies form initiated? Yes ☒ No ☐Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☐Comments: No Sed No HSWater samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐ pH ID: A23172Comments: Sample 1, 2, 4, and 6 HCL ambers pH'd @ 7.16
See COC/container discrepancy formLabeled by: KAMWitness: AJM/AMWCooler Inspected by: KAB

Form Y-003 R-02

Apex Laboratories

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CABri

Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Monday, October 21, 2024

James Welles

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

RE: A4H1527 - Union Station - 2644-001

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A4H1527, which was received by the laboratory on 8/28/2024 at 1:42:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: mpoquiz@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Cooler #1 2.6 degC

Cooler #2 0.6 degC

Cooler #3 4.6 degC

Cooler #4 2.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

10/21/2024

This report is complete only if it includes the subcontract report from Air Technology Laboratories

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4H1527 - 10 21 24 1506****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-108R-20240827	A4H1527-01	Water	08/27/24 11:40	08/28/24 13:42
MW-105-20240827	A4H1527-02	Water	08/27/24 13:30	08/28/24 13:42
MW-101R-20240827	A4H1527-03	Water	08/27/24 15:05	08/28/24 13:42
B-4R-20240827	A4H1527-04	Water	08/27/24 18:10	08/28/24 13:42
MW-102R-08272024	A4H1527-05	Water	08/27/24 11:17	08/28/24 13:42
MW-104-082724	A4H1527-06	Water	08/27/24 12:47	08/28/24 13:42
MW-107R-082724	A4H1527-07	Water	08/27/24 14:43	08/28/24 13:42
B-6R-082724	A4H1527-08	Water	08/27/24 16:50	08/28/24 13:42

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Michele Poquiz For Kurt Johnson, Senior Chemist

10/21/2024

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ANALYTICAL REPORT

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503-718-2323

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL CASE NARRATIVE

Work Order: **A4H1527**

Apex Laboratories

Amended Report Revision 1:

Method NWTPH-Gx Data Qualifier Note

This report supersedes all previous reports.

The Gasoline results for the samples below were originally reported without F-03 qualification: *The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.* The F-03 qualifier has been added.

- MW-101R-20240827 (Apex ID: A4H1527-03)
- MW-107R-082724 (Apex ID: A4H1527-07)

Michele Poquiz

Forensics Project Manager

10/10/2024

Subcontract

This report is complete only if it includes the attached subcontract laboratory report from Air Technology Laboratories .

Cameron O'Brien

Project Manager

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

10/21/2024

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ANALYTICAL REPORT

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240827 (A4H1527-01)				Matrix: Water		Batch: 24I0016		
Diesel	131	---	78.4	ug/L	1	09/04/24 08:12	NWTPH-Dx LL	F-13
Oil	ND	---	157	ug/L	1	09/04/24 08:12	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 91 %		Limits: 50-150 %	1	09/04/24 08:12	NWTPH-Dx LL	
MW-105-20240827 (A4H1527-02RE1)				Matrix: Water		Batch: 24I0016		PRES
Diesel	482	---	77.7	ug/L	1	09/04/24 10:29	NWTPH-Dx LL	F-13
Oil	ND	---	155	ug/L	1	09/04/24 10:29	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 85 %		Limits: 50-150 %	1	09/04/24 10:29	NWTPH-Dx LL	
MW-101R-20240827 (A4H1527-03)				Matrix: Water		Batch: 24H1121		
Diesel	3000	---	76.9	ug/L	1	08/31/24 00:18	NWTPH-Dx LL	F-13
Oil	ND	---	154	ug/L	1	08/31/24 00:18	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 86 %		Limits: 50-150 %	1	08/31/24 00:18	NWTPH-Dx LL	
B-4R-20240827 (A4H1527-04)				Matrix: Water		Batch: 24H1121		
Diesel	276	---	76.2	ug/L	1	08/31/24 01:06	NWTPH-Dx LL	F-13
Oil	ND	---	152	ug/L	1	08/31/24 01:06	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %	1	08/31/24 01:06	NWTPH-Dx LL	
MW-102R-08272024 (A4H1527-05)				Matrix: Water		Batch: 24I0225		
Diesel	211	---	76.9	ug/L	1	09/10/24 03:48	NWTPH-Dx LL	F-13
Oil	ND	---	154	ug/L	1	09/10/24 03:48	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 73 %		Limits: 50-150 %	1	09/10/24 03:48	NWTPH-Dx LL	
MW-104-082724 (A4H1527-06)				Matrix: Water		Batch: 24I0225		
Diesel	145	---	76.2	ug/L	1	09/10/24 04:09	NWTPH-Dx LL	F-13
Oil	ND	---	152	ug/L	1	09/10/24 04:09	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 60 %		Limits: 50-150 %	1	09/10/24 04:09	NWTPH-Dx LL	
MW-107R-082724 (A4H1527-07)				Matrix: Water		Batch: 24H1121		
Diesel	693	---	78.4	ug/L	1	08/31/24 01:53	NWTPH-Dx LL	F-13
Oil	ND	---	157	ug/L	1	08/31/24 01:53	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 91 %		Limits: 50-150 %	1	08/31/24 01:53	NWTPH-Dx LL	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-6R-082724 (A4H1527-08)				Matrix: Water		Batch: 24H1121		
Diesel	83.8	---	74.8	ug/L	1	08/30/24 21:57	NWTPH-Dx LL	
Oil	ND	---	150	ug/L	1	08/30/24 21:57	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 73 %		Limits: 50-150 %	1	08/30/24 21:57	NWTPH-Dx LL	

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Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-101R-20240827 (A4H1527-03)				Matrix: Water		Batch: 24I0646		
Diesel	2250	---	76.9	ug/L	1	09/21/24 03:34	NWTPH-Dx/SGC	F-17
Oil	ND	---	154	ug/L	1	09/21/24 03:34	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %	1	09/21/24 03:34	NWTPH-Dx/SGC	
MW-107R-082724 (A4H1527-07)				Matrix: Water		Batch: 24I0646		
Diesel	ND	---	78.4	ug/L	1	09/21/24 03:58	NWTPH-Dx/SGC	
Oil	ND	---	157	ug/L	1	09/21/24 03:58	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 75 %		Limits: 50-150 %	1	09/21/24 03:58	NWTPH-Dx/SGC	

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Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240827 (A4H1527-01RE1)				Matrix: Water		Batch: 24I0307		H-01
Gasoline Range Organics	ND	---	100	ug/L	1	09/11/24 11:20	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 107 %	Limits: 50-150 %	1	09/11/24 11:20	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		112 %	50-150 %	1	09/11/24 11:20	NWTPH-Gx (MS)		
MW-105-20240827 (A4H1527-02)				Matrix: Water		Batch: 24I0209		V-01
Gasoline Range Organics	897	---	100	ug/L	1	09/09/24 14:20	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 98 %	Limits: 50-150 %	1	09/09/24 14:20	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		102 %	50-150 %	1	09/09/24 14:20	NWTPH-Gx (MS)		
MW-101R-20240827 (A4H1527-03)				Matrix: Water		Batch: 24I0209		
Gasoline Range Organics	4660	---	100	ug/L	1	09/09/24 14:41	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 98 %	Limits: 50-150 %	1	09/09/24 14:41	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		99 %	50-150 %	1	09/09/24 14:41	NWTPH-Gx (MS)		
B-4R-20240827 (A4H1527-04)				Matrix: Water		Batch: 24I0209		
Gasoline Range Organics	105	---	100	ug/L	1	09/09/24 15:24	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 93 %	Limits: 50-150 %	1	09/09/24 15:24	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		89 %	50-150 %	1	09/09/24 15:24	NWTPH-Gx (MS)		
MW-102R-08272024 (A4H1527-05)				Matrix: Water		Batch: 24I0209		
Gasoline Range Organics	ND	---	100	ug/L	1	09/09/24 15:45	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 93 %	Limits: 50-150 %	1	09/09/24 15:45	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		90 %	50-150 %	1	09/09/24 15:45	NWTPH-Gx (MS)		
MW-104-082724 (A4H1527-06)				Matrix: Water		Batch: 24I0209		
Gasoline Range Organics	ND	---	100	ug/L	1	09/09/24 16:06	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 92 %	Limits: 50-150 %	1	09/09/24 16:06	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		93 %	50-150 %	1	09/09/24 16:06	NWTPH-Gx (MS)		
MW-107R-082724 (A4H1527-07)				Matrix: Water		Batch: 24I0209		
Gasoline Range Organics	1260	---	100	ug/L	1	09/09/24 16:28	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 93 %	Limits: 50-150 %	1	09/09/24 16:28	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		93 %	50-150 %	1	09/09/24 16:28	NWTPH-Gx (MS)		

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-6R-082724 (A4H1527-08)				Matrix: Water		Batch: 24I0209		
Gasoline Range Organics	ND	---	100	ug/L	1	09/09/24 17:10	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	91 %	Limits: 50-150 %	1	09/09/24 17:10	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			92 %	50-150 %	1	09/09/24 17:10	NWTPH-Gx (MS)	

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Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240827 (A4H1527-01RE1)				Matrix: Water		Batch: 24I0307		H-01
Benzene	ND	---	0.200	ug/L	1	09/11/24 11:20	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	09/11/24 11:20	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	09/11/24 11:20	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	09/11/24 11:20	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	09/11/24 11:20	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	09/11/24 11:20	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	105 %	Limits:	80-120 %	1	09/11/24 11:20	EPA 8260D
Toluene-d8 (Surr)			98 %		80-120 %	1	09/11/24 11:20	EPA 8260D
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	09/11/24 11:20	EPA 8260D
MW-105-20240827 (A4H1527-02)				Matrix: Water		Batch: 24I0209		V-01
Benzene	159	---	0.200	ug/L	1	09/09/24 14:20	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	09/09/24 14:20	EPA 8260D	
Ethylbenzene	0.760	---	0.500	ug/L	1	09/09/24 14:20	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	09/09/24 14:20	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	09/09/24 14:20	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	09/09/24 14:20	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits:	80-120 %	1	09/09/24 14:20	EPA 8260D
Toluene-d8 (Surr)			100 %		80-120 %	1	09/09/24 14:20	EPA 8260D
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	09/09/24 14:20	EPA 8260D
MW-101R-20240827 (A4H1527-03)				Matrix: Water		Batch: 24I0209		
Benzene	78.7	---	0.200	ug/L	1	09/09/24 14:41	EPA 8260D	
Toluene	1.46	---	1.00	ug/L	1	09/09/24 14:41	EPA 8260D	
Ethylbenzene	81.8	---	0.500	ug/L	1	09/09/24 14:41	EPA 8260D	
m,p-Xylene	8.25	---	1.00	ug/L	1	09/09/24 14:41	EPA 8260D	
o-Xylene	10.3	---	0.500	ug/L	1	09/09/24 14:41	EPA 8260D	
Xylenes, total	18.6	---	1.50	ug/L	1	09/09/24 14:41	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	98 %	Limits:	80-120 %	1	09/09/24 14:41	EPA 8260D
Toluene-d8 (Surr)			100 %		80-120 %	1	09/09/24 14:41	EPA 8260D
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	09/09/24 14:41	EPA 8260D
B-4R-20240827 (A4H1527-04)				Matrix: Water		Batch: 24I0209		
Benzene	ND	---	0.200	ug/L	1	09/09/24 15:24	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	09/09/24 15:24	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	09/09/24 15:24	EPA 8260D	

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20240827 (A4H1527-04)				Matrix: Water		Batch: 24I0209		
m,p-Xylene	ND	---	1.00	ug/L	1	09/09/24 15:24	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	09/09/24 15:24	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	09/09/24 15:24	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	97 %	Limits:	80-120 %	1	09/09/24 15:24	EPA 8260D
Toluene-d8 (Surr)			97 %		80-120 %	1	09/09/24 15:24	EPA 8260D
4-Bromofluorobenzene (Surr)			108 %		80-120 %	1	09/09/24 15:24	EPA 8260D
MW-102R-08272024 (A4H1527-05)				Matrix: Water		Batch: 24I0209		
Benzene	ND	---	0.200	ug/L	1	09/09/24 15:45	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	09/09/24 15:45	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	09/09/24 15:45	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	09/09/24 15:45	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	09/09/24 15:45	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	09/09/24 15:45	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	100 %	Limits:	80-120 %	1	09/09/24 15:45	EPA 8260D
Toluene-d8 (Surr)			97 %		80-120 %	1	09/09/24 15:45	EPA 8260D
4-Bromofluorobenzene (Surr)			107 %		80-120 %	1	09/09/24 15:45	EPA 8260D
MW-104-082724 (A4H1527-06)				Matrix: Water		Batch: 24I0209		
Benzene	ND	---	0.200	ug/L	1	09/09/24 16:06	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	09/09/24 16:06	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	09/09/24 16:06	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	09/09/24 16:06	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	09/09/24 16:06	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	09/09/24 16:06	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	99 %	Limits:	80-120 %	1	09/09/24 16:06	EPA 8260D
Toluene-d8 (Surr)			98 %		80-120 %	1	09/09/24 16:06	EPA 8260D
4-Bromofluorobenzene (Surr)			104 %		80-120 %	1	09/09/24 16:06	EPA 8260D
MW-107R-082724 (A4H1527-07)				Matrix: Water		Batch: 24I0209		
Benzene	1.39	---	0.200	ug/L	1	09/09/24 16:28	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	09/09/24 16:28	EPA 8260D	
Ethylbenzene	6.18	---	0.500	ug/L	1	09/09/24 16:28	EPA 8260D	
m,p-Xylene	3.69	---	1.00	ug/L	1	09/09/24 16:28	EPA 8260D	
o-Xylene	3.59	---	0.500	ug/L	1	09/09/24 16:28	EPA 8260D	
Xylenes, total	7.28	---	1.50	ug/L	1	09/09/24 16:28	EPA 8260D	

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Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-107R-082724 (A4H1527-07)		Matrix: Water		Batch: 24I0209				
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 98 %	Limits: 80-120 %	1	09/09/24 16:28	EPA 8260D		
Toluene-d8 (Surr)		98 %	80-120 %	1	09/09/24 16:28	EPA 8260D		
4-Bromofluorobenzene (Surr)		102 %	80-120 %	1	09/09/24 16:28	EPA 8260D		
B-6R-082724 (A4H1527-08)		Matrix: Water		Batch: 24I0209				
Benzene	ND	---	0.200	ug/L	1	09/09/24 17:10	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	09/09/24 17:10	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	09/09/24 17:10	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	09/09/24 17:10	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	09/09/24 17:10	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	09/09/24 17:10	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 98 %	Limits: 80-120 %	1	09/09/24 17:10	EPA 8260D		
Toluene-d8 (Surr)		99 %	80-120 %	1	09/09/24 17:10	EPA 8260D		
4-Bromofluorobenzene (Surr)		107 %	80-120 %	1	09/09/24 17:10	EPA 8260D		

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Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240827 (A4H1527-01RE2)				Matrix: Water		Batch: 24I0001	DCNT	
Acenaphthene	0.352	0.0189	0.0378	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Acenaphthylene	0.0274	0.0189	0.0378	ug/L	1	09/03/24 12:11	EPA 8270E LVI	J
Anthracene	0.132	0.0189	0.0378	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Benz(a)anthracene	0.0104	0.00946	0.0189	ug/L	1	09/03/24 12:11	EPA 8270E LVI	J
Benzo(a)pyrene	ND	0.00946	0.0189	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00946	0.0189	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00946	0.0189	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0189	0.0378	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Chrysene	ND	0.00946	0.0189	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00946	0.0189	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Fluoranthene	0.0624	0.0189	0.0378	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Fluorene	0.193	0.0189	0.0378	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00946	0.0189	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0378	0.0757	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0378	0.0757	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Naphthalene	ND	0.0378	0.0757	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Phenanthrene	0.274	0.0378	0.0757	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Pyrene	0.0615	0.0189	0.0378	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Dibenzofuran	0.0549	0.0189	0.0378	ug/L	1	09/03/24 12:11	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 94 %		Limits: 78-134 %	1	09/03/24 12:11	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		110 %		80-132 %	1	09/03/24 12:11	EPA 8270E LVI	

MW-105-20240827 (A4H1527-02RE2)

Matrix: Water

Batch: 24I0001

DCNT

Acenaphthene	36.9	0.184	0.368	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Acenaphthylene	3.11	0.184	0.368	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Anthracene	1.89	0.184	0.368	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Benz(a)anthracene	0.216	0.0920	0.184	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Benzo(a)pyrene	0.115	0.0920	0.184	ug/L	10	09/03/24 12:45	EPA 8270E LVI	J
Benzo(b)fluoranthene	0.0966	0.0920	0.184	ug/L	10	09/03/24 12:45	EPA 8270E LVI	J
Benzo(k)fluoranthene	ND	0.0920	0.184	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.184	0.368	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Chrysene	0.138	0.0920	0.184	ug/L	10	09/03/24 12:45	EPA 8270E LVI	J
Dibenz(a,h)anthracene	ND	0.0920	0.184	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Fluoranthene	2.81	0.184	0.368	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Fluorene	9.36	0.184	0.368	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0920	0.184	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
1-Methylnaphthalene	20.3	0.368	0.736	ug/L	10	09/03/24 12:45	EPA 8270E LVI	

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Michele Poquiz For Kurt Johnson, Senior Chemist

10/21/2024

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-105-20240827 (A4H1527-02RE2)				Matrix: Water		Batch: 24I0001		DCNT
2-Methylnaphthalene	14.3	0.368	0.736	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Naphthalene	19.6	0.368	0.736	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Phenanthrene	1.67	0.368	0.736	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Pyrene	2.35	0.184	0.368	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Dibenzofuran	5.26	0.184	0.368	ug/L	10	09/03/24 12:45	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 62 %		Limits: 78-134 %	10	09/03/24 12:45	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		111 %		80-132 %	10	09/03/24 12:45	EPA 8270E LVI	S-05
MW-101R-20240827 (A4H1527-03RE1)				Matrix: Water		Batch: 24I0001		DCNT
Acenaphthene	235	1.83	3.65	ug/L	100	09/03/24 13:17	EPA 8270E LVI	R-02
Acenaphthylene	ND	9.59	9.59	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Anthracene	6.94	1.83	3.65	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Benz(a)anthracene	ND	0.913	1.83	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.913	1.83	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.913	1.83	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.913	1.83	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	1.83	3.65	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Chrysene	ND	0.913	1.83	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.913	1.83	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Fluoranthene	4.57	1.83	3.65	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Fluorene	73.8	1.83	3.65	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.913	1.83	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
1-Methylnaphthalene	388	3.65	7.31	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
2-Methylnaphthalene	432	3.65	7.31	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Naphthalene	322	3.65	7.31	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Phenanthrene	56.7	3.65	7.31	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Pyrene	4.66	1.83	3.65	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Dibenzofuran	14.9	1.83	3.65	ug/L	100	09/03/24 13:17	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	09/03/24 13:17	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		122 %		80-132 %	100	09/03/24 13:17	EPA 8270E LVI	S-05
B-4R-20240827 (A4H1527-04RE1)				Matrix: Water		Batch: 24H1080		
Acenaphthene	26.5	0.183	0.366	ug/L	10	08/29/24 23:28	EPA 8270E LVI	J
Acenaphthylene	1.61	0.183	0.366	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Anthracene	0.320	0.183	0.366	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Benz(a)anthracene	ND	0.0915	0.183	ug/L	10	08/29/24 23:28	EPA 8270E LVI	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20240827 (A4H1527-04RE1)				Matrix: Water		Batch: 24H1080		
Benzo(a)pyrene	ND	0.0915	0.183	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0915	0.183	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0915	0.183	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.183	0.366	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Chrysene	ND	0.0915	0.183	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0915	0.183	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Fluoranthene	0.192	0.183	0.366	ug/L	10	08/29/24 23:28	EPA 8270E LVI	J
Fluorene	4.97	0.183	0.366	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0915	0.183	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
1-Methylnaphthalene	4.54	0.366	0.732	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
2-Methylnaphthalene	0.384	0.366	0.732	ug/L	10	08/29/24 23:28	EPA 8270E LVI	J
Naphthalene	1.19	0.366	0.732	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Phenanthrene	1.01	0.366	0.732	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Pyrene	0.229	0.183	0.366	ug/L	10	08/29/24 23:28	EPA 8270E LVI	J
Dibenzofuran	ND	0.183	0.366	ug/L	10	08/29/24 23:28	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 66 %		Limits: 78-134 %	10	08/29/24 23:28	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		102 %		80-132 %	10	08/29/24 23:28	EPA 8270E LVI	S-05

MW-102R-08272024 (A4H1527-05RE2)				Matrix: Water		Batch: 24I0001		DCNT
Acenaphthene	13.1	0.0712	0.142	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Acenaphthylene	1.22	0.0712	0.142	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Anthracene	0.918	0.0712	0.142	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Benz(a)anthracene	ND	0.0356	0.0712	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.0356	0.0712	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0356	0.0712	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0356	0.0712	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0712	0.142	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Chrysene	ND	0.0356	0.0712	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0356	0.0712	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Fluoranthene	0.683	0.0712	0.142	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Fluorene	4.19	0.0712	0.142	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0356	0.0712	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
1-Methylnaphthalene	0.180	0.142	0.285	ug/L	4	09/03/24 13:50	EPA 8270E LVI	J
2-Methylnaphthalene	ND	0.142	0.285	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Naphthalene	ND	0.142	0.285	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Phenanthrene	1.15	0.142	0.285	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Pyrene	0.559	0.0712	0.142	ug/L	4	09/03/24 13:50	EPA 8270E LVI	

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10/21/2024

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-08272024 (A4H1527-05RE2)				Matrix: Water		Batch: 24I0001		DCNT
Dibenzofuran	0.294	0.0712	0.142	ug/L	4	09/03/24 13:50	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 82 %		Limits: 78-134 %	4	09/03/24 13:50	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		113 %		80-132 %	4	09/03/24 13:50	EPA 8270E LVI	S-05
MW-104-082724 (A4H1527-06RE2)				Matrix: Water		Batch: 24I0001		DCNT
Acenaphthene	51.7	0.181	0.362	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Acenaphthylene	2.07	0.181	0.362	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Anthracene	0.321	0.181	0.362	ug/L	10	09/03/24 14:23	EPA 8270E LVI	J
Benz(a)anthracene	ND	0.0904	0.181	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.0904	0.181	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0904	0.181	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0904	0.181	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.181	0.362	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Chrysene	ND	0.0904	0.181	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0904	0.181	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Fluoranthene	1.42	0.181	0.362	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Fluorene	5.78	0.181	0.362	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0904	0.181	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
1-Methylnaphthalene	0.601	0.362	0.723	ug/L	10	09/03/24 14:23	EPA 8270E LVI	J
2-Methylnaphthalene	ND	0.362	0.723	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Naphthalene	ND	0.362	0.723	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Phenanthrene	ND	0.362	0.723	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Pyrene	1.08	0.181	0.362	ug/L	10	09/03/24 14:23	EPA 8270E LVI	
Dibenzofuran	0.221	0.181	0.362	ug/L	10	09/03/24 14:23	EPA 8270E LVI	J
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 60 %		Limits: 78-134 %	10	09/03/24 14:23	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		103 %		80-132 %	10	09/03/24 14:23	EPA 8270E LVI	S-05
MW-107R-082724 (A4H1527-07RE2)				Matrix: Water		Batch: 24I0001		DCNT
Acenaphthene	ND	0.0640	0.0640	ug/L	1	09/03/24 14:56	EPA 8270E LVI	R-02
Acenaphthylene	5.06	0.0190	0.0380	ug/L	1	09/03/24 14:56	EPA 8270E LVI	
Anthracene	0.338	0.0190	0.0380	ug/L	1	09/03/24 14:56	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00949	0.0190	ug/L	1	09/03/24 14:56	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00949	0.0190	ug/L	1	09/03/24 14:56	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00949	0.0190	ug/L	1	09/03/24 14:56	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00949	0.0190	ug/L	1	09/03/24 14:56	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0190	0.0380	ug/L	1	09/03/24 14:56	EPA 8270E LVI	

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ANALYTICAL REPORT

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-107R-082724 (A4H1527-07RE2)				Matrix: Water		Batch: 24I0001		DCNT
Chrysene	ND	0.00949	0.0190	ug/L	1	09/03/24 14:56	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00949	0.0190	ug/L	1	09/03/24 14:56	EPA 8270E LVI	
Fluoranthene	ND	0.0190	0.0380	ug/L	1	09/03/24 14:56	EPA 8270E LVI	
Fluorene	ND	0.166	0.166	ug/L	1	09/03/24 14:56	EPA 8270E LVI	R-02
Indeno(1,2,3-cd)pyrene	ND	0.00949	0.0190	ug/L	1	09/03/24 14:56	EPA 8270E LVI	
1-Methylnaphthalene	0.0531	0.0380	0.0759	ug/L	1	09/03/24 14:56	EPA 8270E LVI	J
2-Methylnaphthalene	0.0702	0.0380	0.0759	ug/L	1	09/03/24 14:56	EPA 8270E LVI	J
Naphthalene	0.168	0.0380	0.0759	ug/L	1	09/03/24 14:56	EPA 8270E LVI	
Phenanthrene	0.0655	0.0380	0.0759	ug/L	1	09/03/24 14:56	EPA 8270E LVI	J
Pyrene	0.0213	0.0190	0.0380	ug/L	1	09/03/24 14:56	EPA 8270E LVI	J
Dibenzofuran	ND	0.0629	0.0629	ug/L	1	09/03/24 14:56	EPA 8270E LVI	R-02
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 93 %		Limits: 78-134 %	1	09/03/24 14:56	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		113 %		80-132 %	1	09/03/24 14:56	EPA 8270E LVI	
B-6R-082724 (A4H1527-08)				Matrix: Water		Batch: 24H1080		DCNT
Acenaphthene	ND	0.0744	0.0744	ug/L	1	08/29/24 18:32	EPA 8270E LVI	R-02
Acenaphthylene	0.0635	0.0198	0.0397	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Anthracene	ND	0.0198	0.0397	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00992	0.0198	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00992	0.0198	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00992	0.0198	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00992	0.0198	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0198	0.0397	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Chrysene	ND	0.00992	0.0198	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00992	0.0198	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Fluoranthene	ND	0.0198	0.0397	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Fluorene	ND	0.0198	0.0397	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00992	0.0198	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0397	0.0794	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0397	0.0794	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Naphthalene	0.169	0.0397	0.0794	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Phenanthrene	ND	0.0397	0.0794	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Pyrene	ND	0.0198	0.0397	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Dibenzofuran	ND	0.0198	0.0397	ug/L	1	08/29/24 18:32	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 103 %		Limits: 78-134 %	1	08/29/24 18:32	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		107 %		80-132 %	1	08/29/24 18:32	EPA 8270E LVI	

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10/21/2024

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) and PAH Homologs by EPA 8270E Modified

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-101R-20240827 (A4H1527-03)				Matrix: Water		Batch: 24I0006		PRES
cis-Decalin	ND	0.800	1.60	ug/L	40	09/03/24 18:04	EPA 8270m	
C1-Decalin	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C2-Decalin	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C3-Decalin	ND	8.00	8.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C4-Decalin	ND	8.00	8.00	ug/L	40	09/03/24 18:04	EPA 8270m	
1-Methylnaphthalene	213	0.800	1.60	ug/L	40	09/03/24 18:04	EPA 8270m	B
2-Methylnaphthalene	263	0.800	1.60	ug/L	40	09/03/24 18:04	EPA 8270m	B
C2-Naphthalenes	93.9	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C3-Naphthalenes	7.93	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C4-Naphthalenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
Acenaphthene	159	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	B
Acenaphthylene	ND	1.20	1.20	ug/L	40	09/03/24 18:04	EPA 8270m	R-02
Dibenzofuran	12.9	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
Fluorene	57.3	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	B-02
C1-Fluorenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C2-Fluorenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C3-Fluorenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
Dibenzothiophene	3.67	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
C1-Dibenzothiophene	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C2-Dibenzothiophene	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C3-Dibenzothiophene	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C4-Dibenzothiophene	ND	8.00	8.00	ug/L	40	09/03/24 18:04	EPA 8270m	
Phenanthrene	50.7	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
Anthracene	4.85	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
1-Methylphenanthrene	1.03	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	M-05
C1-Phenanthrenes/Anthracenes	5.96	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C2-Phenanthrenes/Anthracenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C3-Phenanthrenes/Anthracenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C4-Phenanthrenes/Anthracenes	ND	8.00	8.00	ug/L	40	09/03/24 18:04	EPA 8270m	
Fluoranthene	4.75	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
Pyrene	3.99	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
C1-Fluoranthenes/Pyrenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C2-Fluoranthenes/Pyrenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C3-Fluoranthenes/Pyrenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C4-Fluoranthenes/Pyrenes	ND	8.00	8.00	ug/L	40	09/03/24 18:04	EPA 8270m	
Chrysene	ND	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
Benz(a)anthracene	0.419	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	J

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) and PAH Homologs by EPA 8270E Modified

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-101R-20240827 (A4H1527-03)				Matrix: Water		Batch: 24I0006		PRES
C1-Chrysenes/Benz(a)anthracenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C2-Chrysenes/Benz(a)anthracenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C3-Chrysenes/Benz(a)anthracenes	ND	4.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
C4-Chrysenes/Benz(a)anthracenes	ND	8.00	8.00	ug/L	40	09/03/24 18:04	EPA 8270m	
Benzo(b)fluoranthene	ND	0.600	1.20	ug/L	40	09/03/24 18:04	EPA 8270m	
Benzo(k)fluoranthene	ND	0.600	1.20	ug/L	40	09/03/24 18:04	EPA 8270m	
Benzo(a)pyrene	ND	0.600	1.20	ug/L	40	09/03/24 18:04	EPA 8270m	
Benzo(e)pyrene	ND	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
Perylene	ND	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
Indeno(1,2,3-cd)pyrene	ND	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
Dibenz(a,h)anthracene	ND	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
Benzo(g,h,i)perylene	ND	0.400	0.800	ug/L	40	09/03/24 18:04	EPA 8270m	
1,1'-Biphenyl	ND	2.00	4.00	ug/L	40	09/03/24 18:04	EPA 8270m	
2,6-Dimethylnaphthalene	24.1	0.800	1.60	ug/L	40	09/03/24 18:04	EPA 8270m	M-05
1,6,7-Trimethylnaphthalene	1.51	0.800	1.60	ug/L	40	09/03/24 18:04	EPA 8270m	J
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 79 %		Limits: 44-120 %	40	09/03/24 18:04	EPA 8270m	
2-Fluorobiphenyl (Surr)		75 %		44-120 %	40	09/03/24 18:04	EPA 8270m	
Acenaphthylene-d8 (Surr)		80 %		45-120 %	40	09/03/24 18:04	EPA 8270m	
p-Terphenyl-d14 (Surr)		81 %		50-134 %	40	09/03/24 18:04	EPA 8270m	
Benzo(a)pyrene-d12 (Surr)		107 %		63-120 %	40	09/03/24 18:04	EPA 8270m	
MW-101R-20240827 (A4H1527-03RE1)				Matrix: Water		Batch: 24I0006		
Naphthalene	445	8.00	16.0	ug/L	400	09/03/24 19:12	EPA 8270m	B
C1-Naphthalenes	607	40.0	40.0	ug/L	400	09/03/24 19:12	EPA 8270m	B
MW-107R-082724 (A4H1527-07RE2)				Matrix: Water		Batch: 24I0006		
cis-Decalin	ND	0.0748	0.150	ug/L	4	09/04/24 09:58	EPA 8270m	
C1-Decalin	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C2-Decalin	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C3-Decalin	ND	0.748	0.748	ug/L	4	09/04/24 09:58	EPA 8270m	
C4-Decalin	ND	0.748	0.748	ug/L	4	09/04/24 09:58	EPA 8270m	
Naphthalene	ND	0.150	0.150	ug/L	4	09/04/24 09:58	EPA 8270m	
1-Methylnaphthalene	0.179	0.0748	0.150	ug/L	4	09/04/24 09:58	EPA 8270m	B
2-Methylnaphthalene	ND	0.0748	0.150	ug/L	4	09/04/24 09:58	EPA 8270m	
C1-Naphthalenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C2-Naphthalenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	

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Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) and PAH Homologs by EPA 8270E Modified

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-107R-082724 (A4H1527-07RE2)				Matrix: Water		Batch: 24I0006		
C3-Naphthalenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C4-Naphthalenes	0.713	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
Acenaphthene	26.1	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	B
Acenaphthylene	1.94	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
Dibenzofuran	0.805	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
Fluorene	3.62	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	B-02
C1-Fluorenes	0.413	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C2-Fluorenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C3-Fluorenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
Dibenzothiophene	0.381	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
C1-Dibenzothiophene	0.399	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C2-Dibenzothiophene	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C3-Dibenzothiophene	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C4-Dibenzothiophene	ND	0.748	0.748	ug/L	4	09/04/24 09:58	EPA 8270m	
Phenanthrene	ND	0.0748	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
Anthracene	0.256	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
1-Methylphenanthrene	ND	0.0748	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
C1-Phenanthrenes/Anthracenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C2-Phenanthrenes/Anthracenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C3-Phenanthrenes/Anthracenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C4-Phenanthrenes/Anthracenes	ND	0.748	0.748	ug/L	4	09/04/24 09:58	EPA 8270m	
Fluoranthene	0.514	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
Pyrene	0.560	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
C1-Fluoranthenes/Pyrenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C2-Fluoranthenes/Pyrenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C3-Fluoranthenes/Pyrenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C4-Fluoranthenes/Pyrenes	ND	0.748	0.748	ug/L	4	09/04/24 09:58	EPA 8270m	
Chrysene	ND	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
Benz(a)anthracene	ND	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
C1-Chrysenes/Benz(a)anthracenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C2-Chrysenes/Benz(a)anthracenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C3-Chrysenes/Benz(a)anthracenes	ND	0.374	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
C4-Chrysenes/Benz(a)anthracenes	ND	0.748	0.748	ug/L	4	09/04/24 09:58	EPA 8270m	
Benzo(b)fluoranthene	ND	0.0561	0.112	ug/L	4	09/04/24 09:58	EPA 8270m	
Benzo(k)fluoranthene	ND	0.0561	0.112	ug/L	4	09/04/24 09:58	EPA 8270m	
Benzo(a)pyrene	ND	0.0561	0.112	ug/L	4	09/04/24 09:58	EPA 8270m	
Benzo(e)pyrene	ND	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) and PAH Homologs by EPA 8270E Modified

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-107R-082724 (A4H1527-07RE2)		Matrix: Water		Batch: 24I0006				
Perylene	ND	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
Indeno(1,2,3-cd)pyrene	ND	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
Dibenz(a,h)anthracene	ND	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
Benzo(g,h,i)perylene	ND	0.0374	0.0748	ug/L	4	09/04/24 09:58	EPA 8270m	
1,1'-Biphenyl	ND	0.187	0.374	ug/L	4	09/04/24 09:58	EPA 8270m	
2,6-Dimethylnaphthalene	ND	0.0748	0.150	ug/L	4	09/04/24 09:58	EPA 8270m	
1,6,7-Trimethylnaphthalene	ND	0.0748	0.150	ug/L	4	09/04/24 09:58	EPA 8270m	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	67 %	Limits:	44-120 %	4	09/04/24 09:58	EPA 8270m Q-41
2-Fluorobiphenyl (Surr)			60 %		44-120 %	4	09/04/24 09:58	EPA 8270m
Acenaphthylene-d8 (Surr)			66 %		45-120 %	4	09/04/24 09:58	EPA 8270m
p-Terphenyl-d14 (Surr)			53 %		50-134 %	4	09/04/24 09:58	EPA 8270m
Benzo(a)pyrene-d12 (Surr)			96 %		63-120 %	4	09/04/24 09:58	EPA 8270m

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240827 (A4H1527-01)				Matrix: Water				
Batch: 24I0133								
Arsenic	ND	---	1.00	ug/L	1	09/05/24 22:11	EPA 6020B	
MW-105-20240827 (A4H1527-02)				Matrix: Water				
Batch: 24I0133								
Arsenic	4.79	---	1.00	ug/L	1	09/05/24 22:30	EPA 6020B	
MW-101R-20240827 (A4H1527-03)				Matrix: Water				
Batch: 24I0133								
Arsenic	8.31	---	1.00	ug/L	1	09/05/24 22:37	EPA 6020B	
B-4R-20240827 (A4H1527-04)				Matrix: Water				
Batch: 24I0133								
Arsenic	10.5	---	1.00	ug/L	1	09/05/24 22:43	EPA 6020B	
MW-102R-08272024 (A4H1527-05)				Matrix: Water				
Batch: 24I0133								
Arsenic	2.59	---	1.00	ug/L	1	09/05/24 22:49	EPA 6020B	
MW-104-082724 (A4H1527-06)				Matrix: Water				
Batch: 24I0133								
Arsenic	ND	---	1.00	ug/L	1	09/05/24 22:56	EPA 6020B	
MW-107R-082724 (A4H1527-07)				Matrix: Water				
Batch: 24I0133								
Arsenic	5.95	---	1.00	ug/L	1	09/05/24 23:01	EPA 6020B	
B-6R-082724 (A4H1527-08)				Matrix: Water				
Batch: 24I0133								
Arsenic	28.0	---	1.00	ug/L	1	09/05/24 23:08	EPA 6020B	

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240827 (A4H1527-01)				Matrix: Water				
Batch: 24I0202								
Arsenic	ND	---	1.00	ug/L	1	09/09/24 13:39	EPA 6020B (Diss)	
MW-105-20240827 (A4H1527-02)				Matrix: Water				
Batch: 24I0202								
Arsenic	4.31	---	1.00	ug/L	1	09/09/24 14:05	EPA 6020B (Diss)	
MW-101R-20240827 (A4H1527-03)				Matrix: Water				
Batch: 24I0202								
Arsenic	7.96	---	1.00	ug/L	1	09/09/24 14:12	EPA 6020B (Diss)	
B-4R-20240827 (A4H1527-04)				Matrix: Water				
Batch: 24I0202								
Arsenic	5.72	---	1.00	ug/L	1	09/09/24 14:18	EPA 6020B (Diss)	
MW-102R-08272024 (A4H1527-05)				Matrix: Water				
Batch: 24I0202								
Arsenic	2.21	---	1.00	ug/L	1	09/09/24 14:38	EPA 6020B (Diss)	
MW-104-082724 (A4H1527-06)				Matrix: Water				
Batch: 24I0202								
Arsenic	ND	---	1.00	ug/L	1	09/09/24 14:45	EPA 6020B (Diss)	
MW-107R-082724 (A4H1527-07)				Matrix: Water				
Batch: 24I0202								
Arsenic	5.75	---	1.00	ug/L	1	09/09/24 14:51	EPA 6020B (Diss)	
B-6R-082724 (A4H1527-08)				Matrix: Water				
Batch: 24I0202								
Arsenic	20.5	---	1.00	ug/L	1	09/09/24 14:58	EPA 6020B (Diss)	
B-6R-082724 (A4H1527-08RE1)				Matrix: Water				
Batch: 24I0193								
Arsenic	4.40	---	1.00	ug/L	1	09/19/24 17:51	EPA 6020B (Diss)	FILT1

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Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240827 (A4H1527-01)				Matrix: Water				
Batch: 24H1035								
Nitrate-Nitrogen	3.50	---	0.250	mg/L	1	08/28/24 19:55	EPA 300.0	Q-42
Sulfate	ND	---	1.00	mg/L	1	08/28/24 19:55	EPA 300.0	
MW-105-20240827 (A4H1527-02)				Matrix: Water				
Batch: 24H1035								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	08/28/24 21:00	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	08/28/24 21:00	EPA 300.0	
MW-101R-20240827 (A4H1527-03)				Matrix: Water				
Batch: 24H1035								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	08/28/24 21:21	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	08/28/24 21:21	EPA 300.0	
B-4R-20240827 (A4H1527-04)				Matrix: Water				
Batch: 24H1035								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	08/28/24 21:43	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	08/28/24 21:43	EPA 300.0	
MW-102R-08272024 (A4H1527-05)				Matrix: Water				
Batch: 24H1035								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	08/28/24 22:04	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	08/28/24 22:04	EPA 300.0	
MW-104-082724 (A4H1527-06)				Matrix: Water				
Batch: 24H1035								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	08/28/24 23:09	EPA 300.0	
Sulfate	3.72	---	1.00	mg/L	1	08/28/24 23:09	EPA 300.0	
MW-107R-082724 (A4H1527-07)				Matrix: Water				
Batch: 24H1035								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	08/28/24 23:31	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	08/28/24 23:31	EPA 300.0	
B-6R-082724 (A4H1527-08)				Matrix: Water				
Batch: 24H1035								

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A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-6R-082724 (A4H1527-08)				Matrix: Water				
Nitrate-Nitrogen	0.638	---	0.250	mg/L	1	08/28/24 23:52	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	08/28/24 23:52	EPA 300.0	

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ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240827 (A4H1527-01)				Matrix: Water				
Batch: 24H1098								
Total Dissolved Solids	7100	---	500	mg/L	1	08/29/24 18:43	SM 2540 C	
MW-108R-20240827 (A4H1527-01RE1)				Matrix: Water				
Batch: 24H1132								
Total Suspended Solids	39.0	---	5.00	mg/L	1	08/30/24 15:41	SM 2540 D	
MW-105-20240827 (A4H1527-02)				Matrix: Water				
Batch: 24H1098								
Total Dissolved Solids	2610	---	50.0	mg/L	1	08/29/24 18:43	SM 2540 C	
MW-105-20240827 (A4H1527-02RE1)				Matrix: Water				
Batch: 24H1132								
Total Suspended Solids	8.00	---	5.00	mg/L	1	08/30/24 15:41	SM 2540 D	TSS
MW-101R-20240827 (A4H1527-03)				Matrix: Water				
Batch: 24H1095								
Total Suspended Solids	79.0	---	5.00	mg/L	1	08/29/24 18:15	SM 2540 D	B
Batch: 24H1098								
Total Dissolved Solids	1050	---	10.0	mg/L	1	08/29/24 18:43	SM 2540 C	
B-4R-20240827 (A4H1527-04)				Matrix: Water				
Batch: 24H1095								
Total Suspended Solids	65.0	---	5.00	mg/L	1	08/29/24 18:15	SM 2540 D	B
Batch: 24H1098								
Total Dissolved Solids	451	---	5.00	mg/L	1	08/29/24 18:43	SM 2540 C	
MW-102R-08272024 (A4H1527-05)				Matrix: Water				
Batch: 24H1098								
Total Dissolved Solids	1720	---	50.0	mg/L	1	08/29/24 18:43	SM 2540 C	
MW-102R-08272024 (A4H1527-05RE1)				Matrix: Water				
Batch: 24H1132								
Total Suspended Solids	35.0	---	5.00	mg/L	1	08/30/24 15:41	SM 2540 D	

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A4H1527 - 10 21 24 1506

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-104-082724 (A4H1527-06)				Matrix: Water				
Batch: 24H1098								
Total Dissolved Solids	401	---	5.00	mg/L	1	08/29/24 18:43	SM 2540 C	
MW-104-082724 (A4H1527-06RE1)				Matrix: Water				
Batch: 24H1132								
Total Suspended Solids	10.0	---	5.00	mg/L	1	08/30/24 15:41	SM 2540 D	TSS
MW-107R-082724 (A4H1527-07)				Matrix: Water				
Batch: 24H1098								
Total Dissolved Solids	1020	---	10.0	mg/L	1	08/29/24 18:43	SM 2540 C	
MW-107R-082724 (A4H1527-07RE1)				Matrix: Water				
Batch: 24H1132								
Total Suspended Solids	9.00	---	5.00	mg/L	1	08/30/24 15:41	SM 2540 D	TSS
B-6R-082724 (A4H1527-08)				Matrix: Water				
Batch: 24H1098								
Total Dissolved Solids	663	---	5.00	mg/L	1	08/29/24 18:43	SM 2540 C	
B-6R-082724 (A4H1527-08RE1)				Matrix: Water				
Batch: 24H1132								
Total Suspended Solids	13.0	---	5.00	mg/L	1	08/30/24 15:41	SM 2540 D	TSS

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ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20240827 (A4H1527-01)				Matrix: Water				
Batch: 24H1066								
Total Alkalinity	2790	---	20.0	mg CaCO3/L	1	08/29/24 10:32	SM 2320 B	
Bicarbonate Alkalinity	2790	---	20.0	mg CaCO3/L	1	08/29/24 10:32	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 10:32	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 10:32	SM 2320 B	
MW-105-20240827 (A4H1527-02)				Matrix: Water				
Batch: 24H1066								
Total Alkalinity	1800	---	20.0	mg CaCO3/L	1	08/29/24 11:15	SM 2320 B	
Bicarbonate Alkalinity	1800	---	20.0	mg CaCO3/L	1	08/29/24 11:15	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 11:15	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 11:15	SM 2320 B	
MW-101R-20240827 (A4H1527-03)				Matrix: Water				
Batch: 24H1066								
Total Alkalinity	816	---	20.0	mg CaCO3/L	1	08/29/24 11:44	SM 2320 B	
Bicarbonate Alkalinity	816	---	20.0	mg CaCO3/L	1	08/29/24 11:44	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 11:44	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 11:44	SM 2320 B	
B-4R-20240827 (A4H1527-04)				Matrix: Water				
Batch: 24H1066								
Total Alkalinity	361	---	20.0	mg CaCO3/L	1	08/29/24 11:58	SM 2320 B	
Bicarbonate Alkalinity	361	---	20.0	mg CaCO3/L	1	08/29/24 11:58	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 11:58	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 11:58	SM 2320 B	
MW-102R-08272024 (A4H1527-05)				Matrix: Water				
Batch: 24H1066								
Total Alkalinity	729	---	20.0	mg CaCO3/L	1	08/29/24 12:07	SM 2320 B	
Bicarbonate Alkalinity	729	---	20.0	mg CaCO3/L	1	08/29/24 12:07	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 12:07	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 12:07	SM 2320 B	
MW-104-082724 (A4H1527-06)				Matrix: Water				
Batch: 24H1066								

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ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-104-082724 (A4H1527-06)				Matrix: Water				
Total Alkalinity	316	---	20.0	mg CaCO3/L	1	08/29/24 14:41	SM 2320 B	
Bicarbonate Alkalinity	316	---	20.0	mg CaCO3/L	1	08/29/24 14:41	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 14:41	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 14:41	SM 2320 B	
MW-107R-082724 (A4H1527-07)				Matrix: Water				
Batch: 24H1066								
Total Alkalinity	775	---	20.0	mg CaCO3/L	1	08/29/24 12:23	SM 2320 B	
Bicarbonate Alkalinity	775	---	20.0	mg CaCO3/L	1	08/29/24 12:23	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 12:23	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 12:23	SM 2320 B	
B-6R-082724 (A4H1527-08)				Matrix: Water				
Batch: 24H1066								
Total Alkalinity	531	---	20.0	mg CaCO3/L	1	08/29/24 12:45	SM 2320 B	
Bicarbonate Alkalinity	531	---	20.0	mg CaCO3/L	1	08/29/24 12:45	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 12:45	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	08/29/24 12:45	SM 2320 B	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 24H1121 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (24H1121-BLK1)		Prepared: 08/30/24 11:12		Analyzed: 08/30/24 20:23									
NWTPH-Dx LL													
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---		
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---		
Mineral Oil	ND	---	160	ug/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %			Dilution: 1x						
LCS (24H1121-BS1)		Prepared: 08/30/24 11:12		Analyzed: 08/30/24 20:47									
NWTPH-Dx LL													
Diesel	354	---	80.0	ug/L	1	500	---	71	36 - 132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %			Dilution: 1x						
LCS Dup (24H1121-BSD1)		Prepared: 08/30/24 11:12		Analyzed: 08/30/24 21:10									Q-19
NWTPH-Dx LL													
Diesel	392	---	80.0	ug/L	1	500	---	78	36 - 132%	10	30%		
Surr: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %			Dilution: 1x						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 24I0016 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (24I0016-BLK1)		Prepared: 09/03/24 09:58 Analyzed: 09/03/24 20:13											
<u>NWTPH-Dx LL</u>													
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---		
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %		Dilution: 1x							
LCS (24I0016-BS1)		Prepared: 09/03/24 09:58 Analyzed: 09/03/24 20:37											
<u>NWTPH-Dx LL</u>													
Diesel	361	---	80.0	ug/L	1	500	---	72	36 - 132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (24I0016-BSD1)		Prepared: 09/03/24 09:58 Analyzed: 09/03/24 21:00											
<u>NWTPH-Dx LL</u>													
Diesel	374	---	80.0	ug/L	1	500	---	75	36 - 132%	3	30%		

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0016 - EPA 3510C (Fuels/Acid Ext.)						Water						
LCS Dup (24I0016-BSD1)		Prepared: 09/03/24 09:58 Analyzed: 09/03/24 21:00										Q-19
Surr: o-Terphenyl (Surr)		Recovery: 87 % Limits: 50-150 % Dilution: 1x										

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0225 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (24I0225-BLK1)		Prepared: 09/09/24 10:12 Analyzed: 09/09/24 20:33										
<u>NWTPH-Dx LL</u>												
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 72 %		Limits: 50-150 %		Dilution: 1x						
LCS (24I0225-BS1)		Prepared: 09/09/24 10:12 Analyzed: 09/09/24 20:54										
<u>NWTPH-Dx LL</u>												
Diesel	386	---	80.0	ug/L	1	500	---	77	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 77 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (24I0225-BSD1)		Prepared: 09/09/24 10:12 Analyzed: 09/09/24 21:15										
<u>NWTPH-Dx LL</u>												
Diesel	400	---	80.0	ug/L	1	500	---	80	36 - 132%	4	30%	
Surr: o-Terphenyl (Surr)		Recovery: 78 %		Limits: 50-150 %		Dilution: 1x						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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ANALYTICAL REPORT

AMENDED REPORT

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6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0646 - EPA 3510C (Fuels/Acid Ext.) w/SGC						Water						
Blank (24I0646-BLK1)		Prepared: 08/30/24 11:12 Analyzed: 09/21/24 02:24										
NWTPH-Dx/SGC												
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 90 %		Limits: 50-150 %		Dilution: 1x						
LCS (24I0646-BS1)		Prepared: 08/30/24 11:12 Analyzed: 09/21/24 02:47										
NWTPH-Dx/SGC												
Diesel	353	---	80.0	ug/L	1	500	---	71	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (24I0646-BSD1)		Prepared: 08/30/24 11:12 Analyzed: 09/21/24 03:11										
NWTPH-Dx/SGC												
Diesel	372	---	80.0	ug/L	1	500	---	74	36 - 132%	5	30%	
Surr: o-Terphenyl (Surr)		Recovery: 90 %		Limits: 50-150 %		Dilution: 1x						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0209 - EPA 5030C						Water						
Blank (24I0209-BLK1)		Prepared: 09/09/24 07:58 Analyzed: 09/09/24 10:48										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		98 %		50-150 %		"						
LCS (24I0209-BS2)		Prepared: 09/09/24 07:58 Analyzed: 09/09/24 10:27										
NWTPH-Gx (MS)												
Gasoline Range Organics	445	---	100	ug/L	1	500	---	89	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		98 %		50-150 %		"						
Duplicate (24I0209-DUP1)		Prepared: 09/09/24 07:58 Analyzed: 09/09/24 15:02										
QC Source Sample: MW-101R-20240827 (A4H1527-03)												
NWTPH-Gx (MS)												
Gasoline Range Organics	3910	---	100	ug/L	1	---	4660	---	---	18	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 96 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		94 %		50-150 %		"						
Duplicate (24I0209-DUP2)		Prepared: 09/09/24 07:58 Analyzed: 09/09/24 16:49										
QC Source Sample: MW-107R-082724 (A4H1527-07)												
NWTPH-Gx (MS)												
Gasoline Range Organics	1250	---	100	ug/L	1	---	1260	---	---	1	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		93 %		50-150 %		"						

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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0307 - EPA 5030C						Water						
Blank (24I0307-BLK1)		Prepared: 09/11/24 07:19 Analyzed: 09/11/24 09:59										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		98 %		50-150 %		"						
LCS (24I0307-BS2)		Prepared: 09/11/24 07:19 Analyzed: 09/11/24 09:37										
NWTPH-Gx (MS)												
Gasoline Range Organics	440	---	100	ug/L	1	500	---	88	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		96 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4H1527 - 10 21 24 1506**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0209 - EPA 5030C												
Water												
Blank (24I0209-BLK1)												
Prepared: 09/09/24 07:58 Analyzed: 09/09/24 10:48												
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 97 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>102 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>102 % 80-120 % "</i>												
LCS (24I0209-BS1)												
Prepared: 09/09/24 07:58 Analyzed: 09/09/24 09:16												
EPA 8260D												
Benzene	19.3	---	0.200	ug/L	1	20.0	---	96	80 - 120%	---	---	
Toluene	18.9	---	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Ethylbenzene	20.3	---	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
Xylenes, total	60.7	---	1.50	ug/L	1	60.0	---	101	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 98 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>99 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>102 % 80-120 % "</i>												
Duplicate (24I0209-DUP1)												
Prepared: 09/09/24 07:58 Analyzed: 09/09/24 15:02												
QC Source Sample: MW-101R-20240827 (A4H1527-03)												
EPA 8260D												
Benzene	76.0	---	0.200	ug/L	1	---	78.7	---	---	4	30%	
Toluene	1.51	---	1.00	ug/L	1	---	1.46	---	---	3	30%	
Ethylbenzene	80.6	---	0.500	ug/L	1	---	81.8	---	---	1	30%	
Xylenes, total	19.2	---	1.50	ug/L	1	---	18.6	---	---	3	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 98 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>97 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>104 % 80-120 % "</i>												

Duplicate (24I0209-DUP2) Prepared: 09/09/24 07:58 Analyzed: 09/09/24 16:49**QC Source Sample: MW-107R-082724 (A4H1527-07)****EPA 8260D**

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AMENDED REPORT

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0209 - EPA 5030C							Water					
Duplicate (24I0209-DUP2)		Prepared: 09/09/24 07:58 Analyzed: 09/09/24 16:49										
QC Source Sample: MW-107R-082724 (A4H1527-07)												
Benzene	1.39	---	0.200	ug/L	1	---	1.39	---	---	0	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	6.59	---	0.500	ug/L	1	---	6.18	---	---	6	30%	
Xylenes, total	7.40	---	1.50	ug/L	1	---	7.28	---	---	2	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0307 - EPA 5030C						Water						
Blank (24I0307-BLK1)		Prepared: 09/11/24 07:19 Analyzed: 09/11/24 09:59										
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						
LCS (24I0307-BS1)		Prepared: 09/11/24 07:19 Analyzed: 09/11/24 09:16										
EPA 8260D												
Benzene	18.8	---	0.200	ug/L	1	20.0	---	94	80 - 120%	---	---	
Toluene	18.9	---	1.00	ug/L	1	20.0	---	94	80 - 120%	---	---	
Ethylbenzene	20.6	---	0.500	ug/L	1	20.0	---	103	80 - 120%	---	---	
Xylenes, total	61.5	---	1.50	ug/L	1	60.0	---	103	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24H1080 - EPA 3511 (Bottle Extraction)						Water						
Blank (24H1080-BLK1)		Prepared: 08/29/24 11:04 Analyzed: 08/29/24 15:14										
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 103 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		105 %		80-132 %		"						

LCS (24H1080-BS1) Prepared: 08/29/24 11:04 Analyzed: 08/29/24 15:48

EPA 8270E LVI												
Acenaphthene	1.64	0.0160	0.0320	ug/L	1	1.60	---	102	80 - 120%	---	---	
Acenaphthylene	1.85	0.0160	0.0320	ug/L	1	1.60	---	116	80 - 124%	---	---	
Anthracene	1.55	0.0160	0.0320	ug/L	1	1.60	---	97	80 - 123%	---	---	
Benz(a)anthracene	1.61	0.00800	0.0160	ug/L	1	1.60	---	101	80 - 122%	---	---	
Benzo(a)pyrene	1.78	0.00800	0.0160	ug/L	1	1.60	---	111	80 - 129%	---	---	
Benzo(b)fluoranthene	1.69	0.00800	0.0160	ug/L	1	1.60	---	106	80 - 124%	---	---	
Benzo(k)fluoranthene	1.75	0.00800	0.0160	ug/L	1	1.60	---	109	80 - 125%	---	---	
Benzo(g,h,i)perylene	1.47	0.0160	0.0320	ug/L	1	1.60	---	92	80 - 120%	---	---	

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24H1080 - EPA 3511 (Bottle Extraction)						Water						
LCS (24H1080-BS1)		Prepared: 08/29/24 11:04		Analyzed: 08/29/24 15:48								
Chrysene	1.55	0.00800	0.0160	ug/L	1	1.60	---	97	80 - 120%	---	---	
Dibenz(a,h)anthracene	1.59	0.00800	0.0160	ug/L	1	1.60	---	99	80 - 120%	---	---	
Fluoranthene	1.89	0.0160	0.0320	ug/L	1	1.60	---	118	80 - 126%	---	---	
Fluorene	1.72	0.0160	0.0320	ug/L	1	1.60	---	108	77 - 127%	---	---	
Indeno(1,2,3-cd)pyrene	1.43	0.00800	0.0160	ug/L	1	1.60	---	90	80 - 121%	---	---	
1-Methylnaphthalene	2.00	0.0320	0.0640	ug/L	1	1.60	---	125	53 - 148%	---	---	
2-Methylnaphthalene	1.95	0.0320	0.0640	ug/L	1	1.60	---	122	48 - 150%	---	---	
Naphthalene	1.70	0.0320	0.0640	ug/L	1	1.60	---	106	78 - 120%	---	---	
Phenanthrene	1.48	0.0320	0.0640	ug/L	1	1.60	---	92	80 - 120%	---	---	
Pyrene	1.88	0.0160	0.0320	ug/L	1	1.60	---	118	80 - 125%	---	---	
Carbazole	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	65 - 141%	---	---	
Dibenzofuran	1.78	0.0160	0.0320	ug/L	1	1.60	---	111	76 - 121%	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 99 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		108 %		80-132 %		"						

LCS Dup (24H1080-BSD1)		Prepared: 08/29/24 11:04 Analyzed: 08/29/24 16:21										Q-19
EPA 8270E LVI												
Acenaphthene	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	80 - 120%	5	30%	Q-29
Acenaphthylene	1.92	0.0160	0.0320	ug/L	1	1.60	---	120	80 - 124%	3	30%	
Anthracene	1.69	0.0160	0.0320	ug/L	1	1.60	---	105	80 - 123%	8	30%	
Benz(a)anthracene	1.75	0.00800	0.0160	ug/L	1	1.60	---	110	80 - 122%	8	30%	
Benzo(a)pyrene	1.91	0.00800	0.0160	ug/L	1	1.60	---	120	80 - 129%	7	30%	
Benzo(b)fluoranthene	1.81	0.00800	0.0160	ug/L	1	1.60	---	113	80 - 124%	7	30%	
Benzo(k)fluoranthene	1.92	0.00800	0.0160	ug/L	1	1.60	---	120	80 - 125%	9	30%	
Benzo(g,h,i)perylene	1.62	0.0160	0.0320	ug/L	1	1.60	---	101	80 - 120%	9	30%	
Chrysene	1.68	0.00800	0.0160	ug/L	1	1.60	---	105	80 - 120%	8	30%	
Dibenz(a,h)anthracene	1.67	0.00800	0.0160	ug/L	1	1.60	---	104	80 - 120%	5	30%	
Fluoranthene	2.08	0.0160	0.0320	ug/L	1	1.60	---	130	80 - 126%	10	30%	
Fluorene	1.80	0.0160	0.0320	ug/L	1	1.60	---	113	77 - 127%	5	30%	
Indeno(1,2,3-cd)pyrene	1.55	0.00800	0.0160	ug/L	1	1.60	---	97	80 - 121%	8	30%	
1-Methylnaphthalene	2.02	0.0320	0.0640	ug/L	1	1.60	---	126	53 - 148%	1	30%	
2-Methylnaphthalene	1.95	0.0320	0.0640	ug/L	1	1.60	---	122	48 - 150%	0.02	30%	
Naphthalene	1.73	0.0320	0.0640	ug/L	1	1.60	---	108	78 - 120%	2	30%	
Phenanthrene	1.61	0.0320	0.0640	ug/L	1	1.60	---	101	80 - 120%	9	30%	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24H1080 - EPA 3511 (Bottle Extraction)						Water						
LCS Dup (24H1080-BSD1)	Prepared: 08/29/24 11:04 Analyzed: 08/29/24 16:21											Q-19
Pyrene	2.07	0.0160	0.0320	ug/L	1	1.60	---	129	80 - 125%	9	30%	Q-29
Carbazole	1.79	0.0160	0.0320	ug/L	1	1.60	---	112	65 - 141%	5	30%	
Dibenzofuran	1.82	0.0160	0.0320	ug/L	1	1.60	---	114	76 - 121%	2	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 100 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		106 %		80-132 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0001 - EPA 3511 (Bottle Extraction)						Water						
Blank (24I0001-BLK1)		Prepared: 09/03/24 07:10		Analyzed: 09/03/24 10:33								
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 93 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		105 %		80-132 %		"						

LCS (24I0001-BS1)

Prepared: 09/03/24 07:10 Analyzed: 09/03/24 11:06

EPA 8270E LVI

Acenaphthene	1.81	0.0160	0.0320	ug/L	1	1.60	---	113	80 - 120%	---	---
Acenaphthylene	1.88	0.0160	0.0320	ug/L	1	1.60	---	117	80 - 124%	---	---
Anthracene	1.69	0.0160	0.0320	ug/L	1	1.60	---	105	80 - 123%	---	---
Benz(a)anthracene	1.69	0.00800	0.0160	ug/L	1	1.60	---	106	80 - 122%	---	---
Benzo(a)pyrene	1.85	0.00800	0.0160	ug/L	1	1.60	---	115	80 - 129%	---	---
Benzo(b)fluoranthene	1.77	0.00800	0.0160	ug/L	1	1.60	---	111	80 - 124%	---	---
Benzo(k)fluoranthene	1.82	0.00800	0.0160	ug/L	1	1.60	---	114	80 - 125%	---	---
Benzo(g,h,i)perylene	1.57	0.0160	0.0320	ug/L	1	1.60	---	98	80 - 120%	---	---

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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0001 - EPA 3511 (Bottle Extraction)						Water						
LCS (24I0001-BS1)		Prepared: 09/03/24 07:10		Analyzed: 09/03/24 11:06								
Chrysene	1.62	0.00800	0.0160	ug/L	1	1.60	---	101	80 - 120%	---	---	
Dibenz(a,h)anthracene	1.59	0.00800	0.0160	ug/L	1	1.60	---	100	80 - 120%	---	---	
Fluoranthene	1.96	0.0160	0.0320	ug/L	1	1.60	---	123	80 - 126%	---	---	
Fluorene	1.98	0.0160	0.0320	ug/L	1	1.60	---	124	77 - 127%	---	---	
Indeno(1,2,3-cd)pyrene	1.47	0.00800	0.0160	ug/L	1	1.60	---	92	80 - 121%	---	---	
1-Methylnaphthalene	2.14	0.0320	0.0640	ug/L	1	1.60	---	134	53 - 148%	---	---	
2-Methylnaphthalene	2.09	0.0320	0.0640	ug/L	1	1.60	---	131	48 - 150%	---	---	
Naphthalene	1.88	0.0320	0.0640	ug/L	1	1.60	---	117	78 - 120%	---	---	
Phenanthrene	1.58	0.0320	0.0640	ug/L	1	1.60	---	99	80 - 120%	---	---	
Pyrene	1.96	0.0160	0.0320	ug/L	1	1.60	---	123	80 - 125%	---	---	
Carbazole	1.82	0.0160	0.0320	ug/L	1	1.60	---	114	65 - 141%	---	---	
Dibenzofuran	1.84	0.0160	0.0320	ug/L	1	1.60	---	115	76 - 121%	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 96 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		107 %		80-132 %		"						

LCS Dup (24I0001-BSD1)		Prepared: 09/03/24 07:10		Analyzed: 09/03/24 11:38								Q-19	
EPA 8270E LVI													
Acenaphthene	1.81	0.0160	0.0320	ug/L	1	1.60	---	113	80 - 120%	0.1	30%		
Acenaphthylene	1.85	0.0160	0.0320	ug/L	1	1.60	---	116	80 - 124%	1	30%		
Anthracene	1.67	0.0160	0.0320	ug/L	1	1.60	---	104	80 - 123%	1	30%		
Benz(a)anthracene	1.72	0.00800	0.0160	ug/L	1	1.60	---	108	80 - 122%	2	30%		
Benzo(a)pyrene	1.90	0.00800	0.0160	ug/L	1	1.60	---	118	80 - 129%	3	30%		
Benzo(b)fluoranthene	1.74	0.00800	0.0160	ug/L	1	1.60	---	108	80 - 124%	2	30%		
Benzo(k)fluoranthene	1.84	0.00800	0.0160	ug/L	1	1.60	---	115	80 - 125%	0.9	30%		
Benzo(g,h,i)perylene	1.51	0.0160	0.0320	ug/L	1	1.60	---	95	80 - 120%	4	30%		
Chrysene	1.62	0.00800	0.0160	ug/L	1	1.60	---	101	80 - 120%	0.2	30%		
Dibenz(a,h)anthracene	1.64	0.00800	0.0160	ug/L	1	1.60	---	103	80 - 120%	3	30%		
Fluoranthene	1.96	0.0160	0.0320	ug/L	1	1.60	---	123	80 - 126%	0.1	30%		
Fluorene	2.01	0.0160	0.0320	ug/L	1	1.60	---	125	77 - 127%	1	30%		
Indeno(1,2,3-cd)pyrene	1.43	0.00800	0.0160	ug/L	1	1.60	---	89	80 - 121%	3	30%		
1-Methylnaphthalene	2.09	0.0320	0.0640	ug/L	1	1.60	---	131	53 - 148%	2	30%		
2-Methylnaphthalene	2.07	0.0320	0.0640	ug/L	1	1.60	---	130	48 - 150%	1	30%		
Naphthalene	1.84	0.0320	0.0640	ug/L	1	1.60	---	115	78 - 120%	2	30%		
Phenanthrene	1.54	0.0320	0.0640	ug/L	1	1.60	---	96	80 - 120%	3	30%		

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Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0001 - EPA 3511 (Bottle Extraction)						Water						
LCS Dup (24I0001-BSD1)	Prepared: 09/03/24 07:10 Analyzed: 09/03/24 11:38											Q-19
Pyrene	1.94	0.0160	0.0320	ug/L	1	1.60	---	122	80 - 125%	0.8	30%	
Carbazole	1.85	0.0160	0.0320	ug/L	1	1.60	---	115	65 - 141%	2	30%	
Dibenzofuran	1.88	0.0160	0.0320	ug/L	1	1.60	---	117	76 - 121%	2	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 95 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		108 %		80-132 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) and PAH Homologs by EPA 8270E Modified

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0006 - EPA 3510C (Acid Extraction)						Water						
Blank (24I0006-BLK1)		Prepared: 09/03/24 09:09		Analyzed: 09/03/24 16:23								
EPA 8270m												
cis-Decalin	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
C1-Decalin	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C2-Decalin	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C3-Decalin	ND	0.200	0.200	ug/L	1	---	---	---	---	---	---	
C4-Decalin	ND	0.200	0.200	ug/L	1	---	---	---	---	---	---	
Naphthalene	0.251	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	B
1-Methylnaphthalene	0.124	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	B
2-Methylnaphthalene	0.141	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	B
C1-Naphthalenes	0.264	0.100	0.100	ug/L	1	---	---	---	---	---	---	B
C2-Naphthalenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C3-Naphthalenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C4-Naphthalenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
Acenaphthene	0.0712	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	B
Acenaphthylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Fluorene	0.0127	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	B-02, J
C1-Fluorenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C2-Fluorenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C3-Fluorenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
Dibenzothiophene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
C1-Dibenzothiophene	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C2-Dibenzothiophene	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C3-Dibenzothiophene	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C4-Dibenzothiophene	ND	0.200	0.200	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1-Methylphenanthrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
C1-Phenanthrenes/Anthracenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C2-Phenanthrenes/Anthracenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C3-Phenanthrenes/Anthracenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C4-Phenanthrenes/Anthracenes	ND	0.200	0.200	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	

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Polyaromatic Hydrocarbons (PAHs) and PAH Homologs by EPA 8270E Modified

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0006 - EPA 3510C (Acid Extraction)						Water						
Blank (24I0006-BLK1)		Prepared: 09/03/24 09:09		Analyzed: 09/03/24 16:23								
C1-Fluoranthenes/Pyrenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C2-Fluoranthenes/Pyrenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C3-Fluoranthenes/Pyrenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C4-Fluoranthenes/Pyrenes	ND	0.200	0.200	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
C1-Chrysenes/Benz(a)anthracenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C2-Chrysenes/Benz(a)anthracenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C3-Chrysenes/Benz(a)anthracenes	ND	0.100	0.100	ug/L	1	---	---	---	---	---	---	
C4-Chrysenes/Benz(a)anthracenes	ND	0.200	0.200	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(e)pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Perylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1,1'-Biphenyl	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,6-Dimethylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
1,6,7-Trimethylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 94 %		Limits: 44-120 %		Dilution: 1x						
2-Fluorobiphenyl (Surr)		75 %		44-120 %		"						
Acenaphthylene-d8 (Surr)		78 %		45-120 %		"						
p-Terphenyl-d14 (Surr)		73 %		50-134 %		"						
Benzo(a)pyrene-d12 (Surr)		92 %		63-120 %		"						
LCS (24I0006-BS1)		Prepared: 09/03/24 09:09		Analyzed: 09/03/24 16:56								
EPA 8270m												
cis-Decalin	2.55	0.0200	0.0400	ug/L	1	4.00	---	64	40 - 120%	---	---	
Naphthalene	3.06	0.0200	0.0400	ug/L	1	4.00	---	76	40 - 121%	---	---	B
1-Methylnaphthalene	3.22	0.0200	0.0400	ug/L	1	4.00	---	81	41 - 120%	---	---	B
2-Methylnaphthalene	3.39	0.0200	0.0400	ug/L	1	4.00	---	85	40 - 121%	---	---	B
Acenaphthene	3.10	0.0100	0.0200	ug/L	1	4.00	---	78	47 - 122%	---	---	B

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ANALYTICAL REPORT

AMENDED REPORT

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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) and PAH Homologs by EPA 8270E Modified

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0006 - EPA 3510C (Acid Extraction)						Water						
LCS (24I0006-BS1)		Prepared: 09/03/24 09:09		Analyzed: 09/03/24 16:56								
Acenaphthylene	3.07	0.0100	0.0200	ug/L	1	4.00	---	77	41 - 130%	---	---	B-02
Dibenzofuran	3.24	0.0100	0.0200	ug/L	1	4.00	---	81	53 - 120%	---	---	
Fluorene	3.22	0.0100	0.0200	ug/L	1	4.00	---	80	52 - 124%	---	---	
Dibenzothiophene	3.29	0.0100	0.0200	ug/L	1	4.00	---	82	40 - 120%	---	---	
Phenanthrene	3.11	0.0100	0.0200	ug/L	1	4.00	---	78	59 - 120%	---	---	
Anthracene	3.13	0.0100	0.0200	ug/L	1	4.00	---	78	57 - 123%	---	---	
1-Methylphenanthrene	3.61	0.0100	0.0200	ug/L	1	4.00	---	90	40 - 120%	---	---	
Fluoranthene	3.81	0.0100	0.0200	ug/L	1	4.00	---	95	57 - 128%	---	---	
Pyrene	3.29	0.0100	0.0200	ug/L	1	4.00	---	82	57 - 126%	---	---	
Chrysene	3.37	0.0100	0.0200	ug/L	1	4.00	---	84	59 - 123%	---	---	
Benz(a)anthracene	3.59	0.0100	0.0200	ug/L	1	4.00	---	90	58 - 125%	---	---	
Benzo(b)fluoranthene	3.76	0.0150	0.0300	ug/L	1	4.00	---	94	53 - 131%	---	---	
Benzo(k)fluoranthene	3.67	0.0150	0.0300	ug/L	1	4.00	---	92	57 - 129%	---	---	
Benzo(a)pyrene	3.69	0.0150	0.0300	ug/L	1	4.00	---	92	54 - 128%	---	---	
Benzo(e)pyrene	3.70	0.0100	0.0200	ug/L	1	4.00	---	92	67 - 120%	---	---	
Perylene	3.22	0.0100	0.0200	ug/L	1	4.00	---	81	62 - 130%	---	---	
Indeno(1,2,3-cd)pyrene	3.30	0.0100	0.0200	ug/L	1	4.00	---	82	52 - 134%	---	---	
Dibenz(a,h)anthracene	3.26	0.0100	0.0200	ug/L	1	4.00	---	81	51 - 134%	---	---	
Benzo(g,h,i)perylene	3.22	0.0100	0.0200	ug/L	1	4.00	---	81	50 - 134%	---	---	
1,1'-Biphenyl	3.17	0.0500	0.100	ug/L	1	4.00	---	79	49 - 120%	---	---	
2,6-Dimethylnaphthalene	3.11	0.0200	0.0400	ug/L	1	4.00	---	78	35 - 120%	---	---	
1,6,7-Trimethylnaphthalene	3.19	0.0200	0.0400	ug/L	1	4.00	---	80	40 - 120%	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 98 %		Limits: 44-120 %		Dilution: 1x						
2-Fluorobiphenyl (Surr)		79 %		44-120 %		"						
Acenaphthylene-d8 (Surr)		87 %		45-120 %		"						
p-Terphenyl-d14 (Surr)		81 %		50-134 %		"						
Benzo(a)pyrene-d12 (Surr)		98 %		63-120 %		"						
LCS Dup (24I0006-BSD1)		Prepared: 09/03/24 09:09		Analyzed: 09/03/24 17:30								
EPA 8270m												
cis-Decalin	2.51	0.0200	0.0400	ug/L	1	4.00	---	63	40 - 120%	2	30%	
Naphthalene	2.97	0.0200	0.0400	ug/L	1	4.00	---	74	40 - 121%	3	30%	B
1-Methylnaphthalene	3.25	0.0200	0.0400	ug/L	1	4.00	---	81	41 - 120%	0.8	30%	B
2-Methylnaphthalene	3.43	0.0200	0.0400	ug/L	1	4.00	---	86	40 - 121%	1	30%	B

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A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) and PAH Homologs by EPA 8270E Modified

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0006 - EPA 3510C (Acid Extraction)							Water					
LCS Dup (24I0006-BSD1)		Prepared: 09/03/24 09:09		Analyzed: 09/03/24 17:30				Q-19				
Acenaphthene	3.07	0.0100	0.0200	ug/L	1	4.00	---	77	47 - 122%	1	30%	B
Acenaphthylene	3.05	0.0100	0.0200	ug/L	1	4.00	---	76	41 - 130%	0.6	30%	
Dibenzofuran	3.23	0.0100	0.0200	ug/L	1	4.00	---	81	53 - 120%	0.4	30%	B-02
Fluorene	3.19	0.0100	0.0200	ug/L	1	4.00	---	80	52 - 124%	0.7	30%	
Dibenzothiophene	3.22	0.0100	0.0200	ug/L	1	4.00	---	81	40 - 120%	2	30%	
Phenanthrene	3.06	0.0100	0.0200	ug/L	1	4.00	---	76	59 - 120%	2	30%	
Anthracene	3.21	0.0100	0.0200	ug/L	1	4.00	---	80	57 - 123%	3	30%	
1-Methylphenanthrene	3.57	0.0100	0.0200	ug/L	1	4.00	---	89	40 - 120%	1	30%	
Fluoranthene	3.77	0.0100	0.0200	ug/L	1	4.00	---	94	57 - 128%	1	30%	
Pyrene	3.18	0.0100	0.0200	ug/L	1	4.00	---	79	57 - 126%	4	30%	
Chrysene	3.20	0.0100	0.0200	ug/L	1	4.00	---	80	59 - 123%	5	30%	
Benz(a)anthracene	3.51	0.0100	0.0200	ug/L	1	4.00	---	88	58 - 125%	2	30%	
Benzo(b)fluoranthene	3.54	0.0150	0.0300	ug/L	1	4.00	---	89	53 - 131%	6	30%	
Benzo(k)fluoranthene	3.34	0.0150	0.0300	ug/L	1	4.00	---	83	57 - 129%	9	30%	
Benzo(a)pyrene	3.52	0.0150	0.0300	ug/L	1	4.00	---	88	54 - 128%	5	30%	
Benzo(e)pyrene	3.46	0.0100	0.0200	ug/L	1	4.00	---	87	67 - 120%	6	30%	
Perylene	2.92	0.0100	0.0200	ug/L	1	4.00	---	73	62 - 130%	10	30%	
Indeno(1,2,3-cd)pyrene	2.98	0.0100	0.0200	ug/L	1	4.00	---	74	52 - 134%	10	30%	
Dibenz(a,h)anthracene	2.90	0.0100	0.0200	ug/L	1	4.00	---	72	51 - 134%	12	30%	
Benzo(g,h,i)perylene	2.86	0.0100	0.0200	ug/L	1	4.00	---	72	50 - 134%	12	30%	
1,1'-Biphenyl	3.26	0.0500	0.100	ug/L	1	4.00	---	81	49 - 120%	3	30%	
2,6-Dimethylnaphthalene	3.21	0.0200	0.0400	ug/L	1	4.00	---	80	35 - 120%	3	30%	
1,6,7-Trimethylnaphthalene	3.16	0.0200	0.0400	ug/L	1	4.00	---	79	40 - 120%	0.9	30%	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 95 %		Limits: 44-120 %		Dilution: 1x						
2-Fluorobiphenyl (Surr)		76 %		44-120 %		"						
Acenaphthylene-d8 (Surr)		86 %		45-120 %		"						
p-Terphenyl-d14 (Surr)		76 %		50-134 %		"						
Benzo(a)pyrene-d12 (Surr)		96 %		63-120 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0133 - EPA 3015A							Water					
Blank (24I0133-BLK1)		Prepared: 09/05/24 14:52 Analyzed: 09/05/24 21:44										
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (24I0133-BS1)		Prepared: 09/05/24 14:52 Analyzed: 09/05/24 21:49										
EPA 6020B												
Arsenic	55.1	---	1.00	ug/L	1	55.6	---	99	80 - 120%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0193 - Matrix Matched Direct Inject							Water					
Blank (24I0193-BLK1)		Prepared: 09/06/24 15:24			Analyzed: 09/19/24 17:01							
<u>EPA 6020B (Diss)</u>												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	FILT3
LCS (24I0193-BS1)		Prepared: 09/06/24 15:24			Analyzed: 09/19/24 17:06							
<u>EPA 6020B (Diss)</u>												
Arsenic	53.7	---	1.00	ug/L	1	55.6	---	97	80 - 120%	---	---	
Duplicate (24I0193-DUP1)		Prepared: 09/06/24 15:24			Analyzed: 09/19/24 17:18							
<u>QC Source Sample: MW-108R-20240827 (A4H1527-01RE1)</u>												
<u>EPA 6020B (Diss)</u>												
Arsenic	ND	---	1.00	ug/L	1	---	ND	---	---	---	20%	FILT1
Matrix Spike (24I0193-MS1)		Prepared: 09/06/24 15:24			Analyzed: 09/19/24 17:44							
<u>QC Source Sample: MW-105-20240827 (A4H1527-02RE1)</u>												
<u>EPA 6020B (Diss)</u>												
Arsenic	59.8	---	1.00	ug/L	1	55.6	1.52	105	75 - 125%	---	---	FILT1

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QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24I0202 - Matrix Matched Direct Inject							Water					
Blank (24I0202-BLK1)		Prepared: 09/06/24 17:41			Analyzed: 09/09/24 13:28							
<u>EPA 6020B (Diss)</u>												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (24I0202-BS1)		Prepared: 09/06/24 17:41			Analyzed: 09/09/24 13:34							
<u>EPA 6020B (Diss)</u>												
Arsenic	54.3	---	1.00	ug/L	1	55.6	---	98	80 - 120%	---	---	
Duplicate (24I0202-DUP1)		Prepared: 09/06/24 17:41			Analyzed: 09/09/24 13:46							
<u>QC Source Sample: MW-108R-20240827 (A4H1527-01)</u>												
<u>EPA 6020B (Diss)</u>												
Arsenic	ND	---	1.00	ug/L	1	---	ND	---	---	---	20%	
Matrix Spike (24I0202-MS1)		Prepared: 09/06/24 17:41			Analyzed: 09/09/24 13:59							
<u>QC Source Sample: MW-108R-20240827 (A4H1527-01)</u>												
<u>EPA 6020B (Diss)</u>												
Arsenic	67.9	---	1.00	ug/L	1	55.6	ND	122	75 - 125%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24H1035 - Method Prep: Aq							Water					
Blank (24H1035-BLK1)		Prepared: 08/28/24 13:16			Analyzed: 08/28/24 14:32							
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (24H1035-BS1)		Prepared: 08/28/24 13:16			Analyzed: 08/28/24 14:53							
EPA 300.0												
Nitrate-Nitrogen	1.97	---	0.250	mg/L	1	2.00	---	98	90 - 110%	---	---	
Sulfate	8.04	---	1.00	mg/L	1	8.00	---	100	90 - 110%	---	---	
Duplicate (24H1035-DUP2)		Prepared: 08/28/24 13:16			Analyzed: 08/28/24 20:17							
QC Source Sample: MW-108R-20240827 (A4H1527-01)												
EPA 300.0												
Nitrate-Nitrogen	3.56	---	0.250	mg/L	1	---	3.50	---	---	2	10%	
Sulfate	ND	---	1.00	mg/L	1	---	ND	---	---	---	10%	
Matrix Spike (24H1035-MS2)		Prepared: 08/28/24 13:16			Analyzed: 08/28/24 20:38							
QC Source Sample: MW-108R-20240827 (A4H1527-01)												
EPA 300.0												
Nitrate-Nitrogen	4.97	---	0.312	mg/L	1	2.50	3.50	59	87 - 112%	---	---	Q-02
Sulfate	9.60	---	1.25	mg/L	1	10.0	ND	96	88 - 115%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24H1095 - Total Suspended Solids - 2022							Water					
Blank (24H1095-BLK1)		Prepared: 08/29/24 18:15			Analyzed: 08/29/24 18:15							
SM 2540 D												
Total Suspended Solids	5.00	---	5.00	mg/L	1	---	---	---	---	---	---	B
Reference (24H1095-SRM1)		Prepared: 08/29/24 18:15			Analyzed: 08/29/24 18:15							
SM 2540 D												
Total Suspended Solids	869	---		mg/L	1	842		103	85 - 115%	---	---	B

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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24H1098 - Total Dissolved Solids - 2022							Water					
Blank (24H1098-BLK1)		Prepared: 08/29/24 18:43			Analyzed: 08/29/24 18:43							
<u>SM 2540 C</u>												
Total Dissolved Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (24H1098-DUP2)		Prepared: 08/29/24 18:43			Analyzed: 08/29/24 18:43							
<u>QC Source Sample: MW-108R-20240827 (A4H1527-01)</u>												
<u>SM 2540 C</u>												
Total Dissolved Solids	7800	---	500	mg/L	1	---	7100	---	---	9.40	10%	
Reference (24H1098-SRM1)		Prepared: 08/29/24 18:43			Analyzed: 08/29/24 18:43							
<u>SM 2540 C</u>												
Total Dissolved Solids	2470	---		mg/L	1	2320		107	82 - 118%	---	---	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24H1132 - Total Suspended Solids - 2022							Water					
Blank (24H1132-BLK1)		Prepared: 08/30/24 15:41			Analyzed: 08/30/24 15:41							
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Reference (24H1132-SRM1)		Prepared: 08/30/24 15:41			Analyzed: 08/30/24 15:41							
SM 2540 D												
Total Suspended Solids	857	---		mg/L	1	842		102	85 - 115%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4H1527 - 10 21 24 1506**

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24H1066 - Method Prep: Aq							Water					
Blank (24H1066-BLK1)		Prepared: 08/29/24 08:35		Analyzed: 08/29/24 10:02								
SM 2320 B												
Total Alkalinity	ND	---	20.0	mg CaCO3/L	1	---	---	---	---	---	---	
Bicarbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	---	---	---	---	---	---	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	---	---	---	---	---	---	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	---	---	---	---	---	---	
LCS (24H1066-BS1)		Prepared: 08/29/24 08:35		Analyzed: 08/29/24 10:15								
SM 2320 B												
Total Alkalinity	108	---	20.0	mg CaCO3/L	1	100	---	108	90 - 115%	---	---	
Duplicate (24H1066-DUP1)		Prepared: 08/29/24 08:35		Analyzed: 08/29/24 10:53								
QC Source Sample: MW-108R-20240827 (A4H1527-01)												
SM 2320 B												
Total Alkalinity	2820	---	20.0	mg CaCO3/L	1	---	2790	---	---	1	5%	
Bicarbonate Alkalinity	2820	---	20.0	mg CaCO3/L	1	---	2790	---	---	1	5%	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	---	ND	---	---	---	5%	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	---	ND	---	---	---	5%	

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24H1121</u>							
A4H1527-03	Water	NWTPH-Dx LL	08/27/24 15:05	08/30/24 11:12	1040mL/2mL	1000mL/2mL	0.96
A4H1527-04	Water	NWTPH-Dx LL	08/27/24 18:10	08/30/24 11:12	1050mL/2mL	1000mL/2mL	0.95
A4H1527-07	Water	NWTPH-Dx LL	08/27/24 14:43	08/30/24 11:12	1020mL/2mL	1000mL/2mL	0.98
A4H1527-08	Water	NWTPH-Dx LL	08/27/24 16:50	08/30/24 11:12	1070mL/2mL	1000mL/2mL	0.94
<u>Batch: 24I0016</u>							
A4H1527-01	Water	NWTPH-Dx LL	08/27/24 11:40	09/03/24 09:58	1020mL/2mL	1000mL/2mL	0.98
A4H1527-02RE1	Water	NWTPH-Dx LL	08/27/24 13:30	09/03/24 09:58	1030mL/2mL	1000mL/2mL	0.97
<u>Batch: 24I0225</u>							
A4H1527-05	Water	NWTPH-Dx LL	08/27/24 11:17	09/09/24 10:12	1040mL/2mL	1000mL/2mL	0.96
A4H1527-06	Water	NWTPH-Dx LL	08/27/24 12:47	09/09/24 10:12	1050mL/2mL	1000mL/2mL	0.95

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Prep: EPA 3510C (Fuels/Acid Ext.) w/SGC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24I0646</u>							
A4H1527-03	Water	NWTPH-Dx/SGC	08/27/24 15:05	08/30/24 11:12	1040mL/2mL	1000mL/2mL	0.96
A4H1527-07	Water	NWTPH-Dx/SGC	08/27/24 14:43	08/30/24 11:12	1020mL/2mL	1000mL/2mL	0.98

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24I0209</u>							
A4H1527-02	Water	NWTPH-Gx (MS)	08/27/24 13:30	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-03	Water	NWTPH-Gx (MS)	08/27/24 15:05	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-04	Water	NWTPH-Gx (MS)	08/27/24 18:10	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-05	Water	NWTPH-Gx (MS)	08/27/24 11:17	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-06	Water	NWTPH-Gx (MS)	08/27/24 12:47	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-07	Water	NWTPH-Gx (MS)	08/27/24 14:43	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-08	Water	NWTPH-Gx (MS)	08/27/24 16:50	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
<u>Batch: 24I0307</u>							
A4H1527-01RE1	Water	NWTPH-Gx (MS)	08/27/24 11:40	09/11/24 09:00	5mL/5mL	5mL/5mL	1.00

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ANALYTICAL REPORT

AMENDED REPORT

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Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

SAMPLE PREPARATION INFORMATION

BTEX Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24I0209							
A4H1527-02	Water	EPA 8260D	08/27/24 13:30	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-03	Water	EPA 8260D	08/27/24 15:05	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-04	Water	EPA 8260D	08/27/24 18:10	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-05	Water	EPA 8260D	08/27/24 11:17	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-06	Water	EPA 8260D	08/27/24 12:47	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-07	Water	EPA 8260D	08/27/24 14:43	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
A4H1527-08	Water	EPA 8260D	08/27/24 16:50	09/09/24 08:58	5mL/5mL	5mL/5mL	1.00
Batch: 24I0307							
A4H1527-01RE1	Water	EPA 8260D	08/27/24 11:40	09/11/24 09:00	5mL/5mL	5mL/5mL	1.00

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24H1080							
A4H1527-04RE1	Water	EPA 8270E LVI	08/27/24 18:10	08/29/24 11:04	109.29mL/5mL	125mL/5mL	1.14
A4H1527-08	Water	EPA 8270E LVI	08/27/24 16:50	08/29/24 11:04	100.76mL/5mL	125mL/5mL	1.24
Batch: 24I0001							
A4H1527-01RE2	Water	EPA 8270E LVI	08/27/24 11:40	09/03/24 07:10	105.74mL/5mL	125mL/5mL	1.18
A4H1527-02RE2	Water	EPA 8270E LVI	08/27/24 13:30	09/03/24 07:10	108.71mL/5mL	125mL/5mL	1.15
A4H1527-03RE1	Water	EPA 8270E LVI	08/27/24 15:05	09/03/24 07:10	109.48mL/5mL	125mL/5mL	1.14
A4H1527-05RE2	Water	EPA 8270E LVI	08/27/24 11:17	09/03/24 07:10	112.39mL/5mL	125mL/5mL	1.11
A4H1527-06RE2	Water	EPA 8270E LVI	08/27/24 12:47	09/03/24 07:10	110.62mL/5mL	125mL/5mL	1.13
A4H1527-07RE2	Water	EPA 8270E LVI	08/27/24 14:43	09/03/24 07:10	105.39mL/5mL	125mL/5mL	1.19

Polyaromatic Hydrocarbons (PAHs) and PAH Homologs by EPA 8270E Modified

Prep: EPA 3510C (Acid Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24I0006							
A4H1527-03	Water	EPA 8270m	08/27/24 15:05	09/03/24 09:09	1000mL/1mL	1000mL/1mL	1.00
A4H1527-03RE1	Water	EPA 8270m	08/27/24 15:05	09/03/24 09:09	1000mL/1mL	1000mL/1mL	1.00
A4H1527-07RE2	Water	EPA 8270m	08/27/24 14:43	09/03/24 09:09	1070mL/1mL	1000mL/1mL	0.94

Total Metals by EPA 6020B (ICPMS)

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24I0133							
A4H1527-01	Water	EPA 6020B	08/27/24 11:40	09/05/24 14:52	45mL/50mL	45mL/50mL	1.00
A4H1527-02	Water	EPA 6020B	08/27/24 13:30	09/05/24 14:52	45mL/50mL	45mL/50mL	1.00
A4H1527-03	Water	EPA 6020B	08/27/24 15:05	09/05/24 14:52	45mL/50mL	45mL/50mL	1.00
A4H1527-04	Water	EPA 6020B	08/27/24 18:10	09/05/24 14:52	45mL/50mL	45mL/50mL	1.00
A4H1527-05	Water	EPA 6020B	08/27/24 11:17	09/05/24 14:52	45mL/50mL	45mL/50mL	1.00
A4H1527-06	Water	EPA 6020B	08/27/24 12:47	09/05/24 14:52	45mL/50mL	45mL/50mL	1.00
A4H1527-07	Water	EPA 6020B	08/27/24 14:43	09/05/24 14:52	45mL/50mL	45mL/50mL	1.00
A4H1527-08	Water	EPA 6020B	08/27/24 16:50	09/05/24 14:52	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24I0193							
A4H1527-08RE1	Water	EPA 6020B (Diss)	08/27/24 16:50	09/06/24 15:24	45mL/50mL	45mL/50mL	1.00
Batch: 24I0202							
A4H1527-01	Water	EPA 6020B (Diss)	08/27/24 11:40	09/06/24 17:41	45mL/50mL	45mL/50mL	1.00
A4H1527-02	Water	EPA 6020B (Diss)	08/27/24 13:30	09/06/24 17:41	45mL/50mL	45mL/50mL	1.00
A4H1527-03	Water	EPA 6020B (Diss)	08/27/24 15:05	09/06/24 17:41	45mL/50mL	45mL/50mL	1.00
A4H1527-04	Water	EPA 6020B (Diss)	08/27/24 18:10	09/06/24 17:41	45mL/50mL	45mL/50mL	1.00
A4H1527-05	Water	EPA 6020B (Diss)	08/27/24 11:17	09/06/24 17:41	45mL/50mL	45mL/50mL	1.00
A4H1527-06	Water	EPA 6020B (Diss)	08/27/24 12:47	09/06/24 17:41	45mL/50mL	45mL/50mL	1.00
A4H1527-07	Water	EPA 6020B (Diss)	08/27/24 14:43	09/06/24 17:41	45mL/50mL	45mL/50mL	1.00
A4H1527-08	Water	EPA 6020B (Diss)	08/27/24 16:50	09/06/24 17:41	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24H1035							
A4H1527-01	Water	EPA 300.0	08/27/24 11:40	08/28/24 13:16	5mL/5mL	5mL/5mL	1.00
A4H1527-02	Water	EPA 300.0	08/27/24 13:30	08/28/24 13:16	5mL/5mL	5mL/5mL	1.00
A4H1527-03	Water	EPA 300.0	08/27/24 15:05	08/28/24 13:16	5mL/5mL	5mL/5mL	1.00
A4H1527-04	Water	EPA 300.0	08/27/24 18:10	08/28/24 13:16	5mL/5mL	5mL/5mL	1.00
A4H1527-05	Water	EPA 300.0	08/27/24 11:17	08/28/24 13:16	5mL/5mL	5mL/5mL	1.00
A4H1527-06	Water	EPA 300.0	08/27/24 12:47	08/28/24 13:16	5mL/5mL	5mL/5mL	1.00

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Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4H1527 - 10 21 24 1506**

SAMPLE PREPARATION INFORMATION

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A4H1527-07	Water	EPA 300.0	08/27/24 14:43	08/28/24 13:16	5mL/5mL	5mL/5mL	1.00
A4H1527-08	Water	EPA 300.0	08/27/24 16:50	08/28/24 13:16	5mL/5mL	5mL/5mL	1.00

Solid and Moisture Determinations

Prep: Total Dissolved Solids - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24H1098							
A4H1527-01	Water	SM 2540 C	08/27/24 11:40	08/29/24 18:43			NA
A4H1527-02	Water	SM 2540 C	08/27/24 13:30	08/29/24 18:43			NA
A4H1527-03	Water	SM 2540 C	08/27/24 15:05	08/29/24 18:43			NA
A4H1527-04	Water	SM 2540 C	08/27/24 18:10	08/29/24 18:43			NA
A4H1527-05	Water	SM 2540 C	08/27/24 11:17	08/29/24 18:43			NA
A4H1527-06	Water	SM 2540 C	08/27/24 12:47	08/29/24 18:43			NA
A4H1527-07	Water	SM 2540 C	08/27/24 14:43	08/29/24 18:43			NA
A4H1527-08	Water	SM 2540 C	08/27/24 16:50	08/29/24 18:43			NA

Prep: Total Suspended Solids - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24H1095							
A4H1527-03	Water	SM 2540 D	08/27/24 15:05	08/29/24 18:15			NA
A4H1527-04	Water	SM 2540 D	08/27/24 18:10	08/29/24 18:15			NA
Batch: 24H1132							
A4H1527-01RE1	Water	SM 2540 D	08/27/24 11:40	08/30/24 15:41			NA
A4H1527-02RE1	Water	SM 2540 D	08/27/24 13:30	08/30/24 15:41			NA
A4H1527-05RE1	Water	SM 2540 D	08/27/24 11:17	08/30/24 15:41			NA
A4H1527-06RE1	Water	SM 2540 D	08/27/24 12:47	08/30/24 15:41			NA
A4H1527-07RE1	Water	SM 2540 D	08/27/24 14:43	08/30/24 15:41			NA
A4H1527-08RE1	Water	SM 2540 D	08/27/24 16:50	08/30/24 15:41			NA

Conventional Chemistry Parameters

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24H1066							
A4H1527-01	Water	SM 2320 B	08/27/24 11:40	08/29/24 08:35	60mL/60mL	60mL/60mL	NA

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Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4H1527 - 10 21 24 1506**

SAMPLE PREPARATION INFORMATION

Conventional Chemistry Parameters

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A4H1527-02	Water	SM 2320 B	08/27/24 13:30	08/29/24 08:35	60mL/60mL	60mL/60mL	NA
A4H1527-03	Water	SM 2320 B	08/27/24 15:05	08/29/24 08:35	60mL/60mL	60mL/60mL	NA
A4H1527-04	Water	SM 2320 B	08/27/24 18:10	08/29/24 08:35	60mL/60mL	60mL/60mL	NA
A4H1527-05	Water	SM 2320 B	08/27/24 11:17	08/29/24 08:35	60mL/60mL	60mL/60mL	NA
A4H1527-06	Water	SM 2320 B	08/27/24 12:47	08/29/24 08:35	60mL/60mL	60mL/60mL	NA
A4H1527-07	Water	SM 2320 B	08/27/24 14:43	08/29/24 08:35	60mL/60mL	60mL/60mL	NA
A4H1527-08	Water	SM 2320 B	08/27/24 16:50	08/29/24 08:35	60mL/60mL	60mL/60mL	NA

Lab Filtration

Prep: Lab Filtration

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24I0084</u>							
A4H1527-01	Water	NA	08/27/24 11:40	09/04/24 14:37	150mL/150mL		NA
A4H1527-02	Water	NA	08/27/24 13:30	09/04/24 14:39	150mL/150mL		NA
A4H1527-03	Water	NA	08/27/24 15:05	09/04/24 14:40	150mL/150mL		NA
A4H1527-04	Water	NA	08/27/24 18:10	09/04/24 14:42	150mL/150mL		NA
A4H1527-05	Water	NA	08/27/24 11:17	09/04/24 14:44	150mL/150mL		NA
A4H1527-06	Water	NA	08/27/24 12:47	09/04/24 14:47	150mL/150mL		NA
A4H1527-07	Water	NA	08/27/24 14:43	09/04/24 14:49	150mL/150mL		NA
A4H1527-08	Water	NA	08/27/24 16:50	09/04/24 14:56	150mL/150mL		NA

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

10/21/2024

This report is complete only if it includes the subcontract report from Air Technology Laboratories

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4H1527 - 10 21 24 1506****QUALIFIER DEFINITIONS****Client Sample and Quality Control (QC) Sample Qualifier Definitions:****Apex Laboratories**

B	Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
B-02	Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
DCNT	Sample decanted due to the presence of sediment. Sample bottle not rinsed with solvent.
F-03	The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
F-17	No fuel pattern detected. The Diesel result represents carbon range C10 to C25, and the Oil result represents >C25 to C40.
FILT1	Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
FILT3	This is a laboratory filtration blank, associated with filtration batch 24i0084. See Prep page of report for associated samples.
H-01	Analyzed outside the recommended holding time.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
M-05	Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
PRES	Incomplete field preservation. Additional preservative was added to adjust the pH within the appropriate range for this analysis.
Q-02	Spike recovery is outside of established control limits due to matrix interference.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-29	Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
TSS	Dried residue was less than 2.5mg as specified in the method. Results meet regulatory requirements.
V-01	Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4H1527 - 10 21 24 1506****REPORTING NOTES AND CONVENTIONS:****Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported.
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

10/21/2024

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6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4H1527 - 10 21 24 1506****REPORTING NOTES AND CONVENTIONS (Cont.):****Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:**Mixed Matrix Samples:****Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

10/21/2024

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ANALYTICAL REPORT

AMENDED REPORT

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6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
Water	EPA 8270m		1,6,7-Trimethylnaphthalene	6852	
Water	EPA 8270m		2,6-Dimethylnaphthalene	6188	
Water	EPA 8270m		C1-Chrysenes/Benz(a)anthracenes	6639	
Water	EPA 8270m		C1-Decalin	6604	
Water	EPA 8270m		C1-Dibenzothiophene	6591	
Water	EPA 8270m		C1-Fluoranthenes/Pyrenes	6606	
Water	EPA 8270m		C1-Fluorenes	6607	
Water	EPA 8270m		C1-Naphthalenes	6609	
Water	EPA 8270m		C1-Phenanthrenes/Anthracenes	6611	
Water	EPA 8270m		C2-Chrysenes/Benz(a)anthracenes	6641	
Water	EPA 8270m		C2-Decalin	6616	
Water	EPA 8270m		C2-Dibenzothiophene	6592	
Water	EPA 8270m		C2-Fluoranthenes/Pyrenes		
Water	EPA 8270m		C2-Fluorenes	6618	
Water	EPA 8270m		C2-Naphthalenes	6619	
Water	EPA 8270m		C2-Phenanthrenes/Anthracenes	6621	
Water	EPA 8270m		C3-Chrysenes/Benz(a)anthracenes	6643	
Water	EPA 8270m		C3-Decalin	6626	
Water	EPA 8270m		C3-Dibenzothiophene	6593	
Water	EPA 8270m		C3-Fluoranthenes/Pyrenes		
Water	EPA 8270m		C3-Fluorenes	6628	
Water	EPA 8270m		C3-Naphthalenes	6629	
Water	EPA 8270m		C3-Phenanthrenes/Anthracenes	6631	
Water	EPA 8270m		C4-Chrysenes/Benz(a)anthracenes	6649	
Water	EPA 8270m		C4-Decalin	6636	
Water	EPA 8270m		C4-Dibenzothiophene	6594	
Water	EPA 8270m		C4-Fluoranthenes/Pyrenes		
Water	EPA 8270m		C4-Naphthalenes	6637	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

10/21/2024

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC****6700 S.W. Sandburg Street****Tigard, OR 97223****503-718-2323****ORELAP ID: OR100062****Farallon Consulting - Bellevue****13555 SE 36th Street, Suite 320****Bellevue, WA 98006**Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4H1527 - 10 21 24 1506**

Water	EPA 8270m	C4-Phenanthrenes/Anthracenes	6638
Water	EPA 8270m	cis-Decalin	NA
Water	EPA 8270m	Dibenzothiophene	5910

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

10/21/2024

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

APEX LABS		CHAIN OF CUSTODY	
6700 SW Sandburg St., Tigard, OR 97223 PH: 503-718-2323		Lab # <u>A4H1527</u> coc <u>1</u> of <u>1</u>	
Company: Farallon	Project Mgr: James Welles	Project Name: Union Station	Project #: 2644-001
Address: 13555 SE 36th St Bellevue WA		Email: <u>James.Welles@farallonconsulting.com</u>	
Sampled by: <u>S. Katz - D. Blackwell</u>		Phone: _____	
Site Location: _____		ANALYSIS REQUEST	
State: <u>WA</u>	County: <u>King</u>	SAMPLE ID	
DATE	TIME	MATRIX	# OF CONTAINERS
MW-108R-20240827	11:10	1420	14
MW-105-20240827	1330		
MW-101R-20240827	1505		
B-4R-20240827	1810		
MW-102R-08272024	1117		
MW-104-082724	1247		
MW-107R-082724	1413		
B-6R-082724	1650		
SPECIAL INSTRUCTIONS: * NO SILICA gel cleanup ** XYLENE SPECIATION			
Standard Turn Around Time (TAT) = 10 Business Days			
TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: _____			
SAMPLES ARE HELD FOR 30 DAYS			
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>
Date: <u>8/28/24</u>	Date: <u>08-28-24</u>	Date: <u>08-28-24</u>	Date: <u>8/28/24</u>
Printed Name: <u>Sarah Katz</u>	Printed Name: <u>Fani Vale</u>	Printed Name: <u>Fani Vale</u>	Printed Name: <u>W. Burger</u>
Time: <u>10:00</u>	Time: <u>10:02</u>	Time: <u>01:42 pm</u>	Time: <u>13:42 pm</u>
Company: <u>Farallon</u>	Company: <u>Evergreen C</u>	Company: <u>Evergreen C</u>	Company: <u>Apex</u>

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

10/21/2024

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4H1527 - 10 21 24 1506

APEXLABS COOLER RECEIPT FORM

Client: Farallon Element WO#: A4H1527Project/Project #: Union Station 2644-001

Delivery Info:

Date/time received: 8/28/24 @ 1342 By: UNABDelivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen ☒ Other UNAB 8/28/24From USDA Regulated Origin? Yes No ☒Cooler Inspection Date/time inspected: 8/28/24 @ 1351 By: UNABChain of Custody included? Yes ☒ NoSigned/dated by client? Yes ☒ NoContains USDA Reg. Soils? Yes No ☒ Unsure (email RegSoils)

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.6</u>	<u>0.6</u>	<u>0.6</u>	<u>2.3</u>			

Custody seals? (Y/N) NReceived on ice? (Y/N) YTemp. blanks? (Y/N) YIce type: (Gel/Real/Other) RealCondition (In/Out): IN

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ NoOut of temperature samples form initiated? Yes ☒ NoSample Inspection: Date/time inspected: 8/28/24 @ 1426 By: APWAll samples intact? Yes ☒ No Comments:Bottle labels/COCs agree? Yes No ☒ Comments: MW-108R-08272024 cont. IDs req'd
MW-108R-082724 See formCOC/container discrepancies form initiated? Yes ☒ NoContainers/volumes received appropriate for analysis? Yes ☒ No Comments:Do VOA vials have visible headspace? Yes ☒ No NAComments MW-108R and MW-105 4/6 vials have HSWater samples: pH checked: Yes ☒ No NA pH appropriate? Yes No ☒ NA pH ID: AP3172Comments: pH = 7 for 1L Ambers 1/2 MW-108R, MW-105, MW-101R, B-4R, MW-107R and B-6R. MW-107R 1/2 IL Ambers are too full to preserveLabeled by: ZAMWitness: APWCooler Inspected by: APW

Form Y-003 R-02

Apex Laboratories

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10/21/2024

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September 19, 2024

Apex Laboratories
ATTN: Cameron O'Brien
6700 S.W. Sandburg St.
Tigard, OR 97223



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
ASTM D1946, RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

ALASKA CS-LAP 24-002
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: A4H1527
Lab Number: R083007-01/08

Enclosed are results for sample(s) received 8/30/24 by Air Technology Laboratories. Samples were received intact and chilled to 4° C. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER

Apex Laboratories

A4H1527

R083007-01/08

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Cameron O'Brien

RECEIVING LABORATORY:

Air Technology Laboratories, Inc
18501 E. Gale Ave Suite 130
City of Industry, CA 91748
Phone : (626) 964-4032
Fax: (626) 964-5832

01 Sample Name: MW-108R-20240827 Water Sampled: 08/27/24 11:40 (A4H1527-01)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/11/24 17:00	09/10/24 11:40	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

3/3 voas have HS
08/28/24

02 Sample Name: MW-105-20240827 Water Sampled: 08/27/24 13:30 (A4H1527-02)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/11/24 17:00	09/10/24 13:30	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

3/3 voas have HS
08/28/24

03 Sample Name: MW-101R-20240827 Water Sampled: 08/27/24 15:05 (A4H1527-03)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/11/24 17:00	09/10/24 15:05	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

1/2 1L Amber and 250ml FF Nitric reads MW-1

Standard TAT

4°C
H₂O

Released By

UPS (Shipper)

Date

8/30/24 10:10

Received By

Received By

Date

8/30/24 10:10

Date

SUBCONTRACT ORDER

Apex Laboratories

09/11/24 8/29/24 A4H1527

R083007-01/08

1/2 1L Amber B-4R-20240824

04 Sample Name: B-4R-20240827 Water Sampled: 08/27/24 18:10 (A4H1527-04)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/11/24 17:00	09/10/24 18:10	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

Conts. reads MW-102-082724

05 Sample Name: MW-102R-08272024 Water Sampled: 08/27/24 11:17 (A4H1527-05)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/11/24 17:00	09/10/24 11:17	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

06 Sample Name: MW-104-082724 Water Sampled: 08/27/24 12:47 (A4H1527-06)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/11/24 17:00	09/10/24 12:47	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

07 Sample Name: MW-107R-082724 Water Sampled: 08/27/24 14:43 (A4H1527-07)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/11/24 17:00	09/10/24 14:43	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

Standard TAT

4°C
H2O

Released By

UPS (Shipper)

Date

8/29/24
8/30/24 10:18

Received By

[Signature]

Date

8/30/24 10:18

Released By

Date

Received By

Date

SUBCONTRACT ORDER

Apex Laboratories

A4H1527

R683007 -01/08

No t on 1/2 1L Ambers

Sample Name: B-6R-082724

Water

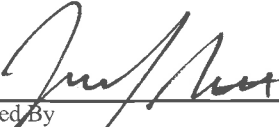

Sampled: 08/27/24 16:50

(A4H1527-08)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/11/24 17:00	09/10/24 16:50	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

Standard TAT

4°C
HO

Released By	Date	Received By	Date
	8/27/24	UPS (Shipper)	
Released By	Date	Received By	Date
UPS (Shipper)	8/30/24 10:18		8/30/24 10:18

Client: Apex Laboratories
Attn: Cameron O'Brien
Project Name: NA
Project No.: A4H1527
Date Received: 08/30/24
Matrix: Water
Reporting Units: ug/L

RSK175								
Lab No.:	R083007-01		R083007-02		R083007-03		R083007-04	
Client Sample I.D.:	MW-108R-20240827 (A4H1527-01)		MW-105-20240827 (A4H1527-02)		MW-101R-20240827 (A4H1527-03)		B-4R-20240827 (A4H1527-04)	
Date/Time Sampled:	8/27/24 11:40		8/27/24 13:30		8/27/24 15:05		8/27/24 18:10	
Date/Time Analyzed:	9/9/24 15:32		9/9/24 15:44		9/9/24 15:58		9/9/24 16:11	
QC Batch No.:	240909GC8A2		240909GC8A2		240909GC8A2		240909GC8A2	
Analyst Initials:	AS/KD		AS/KD		AS/KD		AS/KD	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Methane	4,200	1.0	7,300	1.0	10,000	1.0	4,400	1.0

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date 9/19/24

The cover letter is an integral part of this analytical report



Client: Apex Laboratories
Attn: Cameron O'Brien
Project Name: NA
Project No.: A4H1527
Date Received: 08/30/24
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	R083007-05		R083007-06		R083007-07		R083007-08	
Client Sample I.D.:	MW-102R-08272024 (A4H1527-05)		MW-104-082724 (A4H1527-06)		MW-107R-082724 (A4H1527-07)		B-6R-082724 (A4H1527-08)	
Date/Time Sampled:	8/27/24 11:17		8/27/24 12:47		8/27/24 14:43		8/27/24 16:50	
Date/Time Analyzed:	9/9/24 16:23		9/9/24 16:36		9/9/24 16:47		9/10/24 8:12	
QC Batch No.:	240909GC8A2		240909GC8A2		240909GC8A2		240909GC8A2	
Analyst Initials:	AS/KD		AS/KD		AS/KD		AS/KD	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Methane	9,700	1.0	9,100	1.0	12,000	1.0	7,500	1.0

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date 9/19/24

The cover letter is an integral part of this analytical report



QC Batch No: 240909GC8A2

Matrix: Water

Reporting Units: ug/L

RSK 175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	9/9/24 15:13			9/9/24 14:39		9/9/24 14:51					
Analyst Initials:	AS/KD			AS/KD		AS/KD					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result ug/L	RL ug/L	SPIKE AMT. ug/L	Result ug/L	% Rec.	Result ug/L	% Rec.	RPD %	Limits		
									Low %Rec	High %Rec	Max. RPD
Methane	ND	1.0	650	588	90	548	84	7.1	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 9/19/24

The cover letter is an integral part of this analytical report





ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Friday, December 20, 2024

James Welles

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

RE: A4K1687 - Union Station - 2644-001

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A4K1687, which was received by the laboratory on 11/26/2024 at 5:53:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: cobrien@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information					
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>					
(See Cooler Receipt Form for details)					
Cooler #1	4.2	degC	Cooler #2	3.6	degC
Cooler #3	2.5	degC	Cooler #4	3.2	degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

C. O'Brien

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-4R-20241125	A4K1687-01	Water	11/25/24 12:15	11/26/24 17:53
MW-104-20241125	A4K1687-02	Water	11/25/24 14:06	11/26/24 17:53
MW-105-20241125	A4K1687-03	Water	11/25/24 16:04	11/26/24 17:53
MW-108R-20241125	A4K1687-04	Water	11/25/24 11:53	11/26/24 17:53
MW-102R-20241125	A4K1687-05	Water	11/25/24 13:50	11/26/24 17:53
B-6R-20241125	A4K1687-06	Water	11/25/24 16:23	11/26/24 17:53
MW-107R-20241126	A4K1687-07	Water	11/26/24 09:47	11/26/24 17:53
MW-101R-20241126	A4K1687-08	Water	11/26/24 11:30	11/26/24 17:53

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Cameron O'Brien, Project Manager



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Bellevue, WA 98006

Project: Union Station
Project Number: 2644-001
Project Manager: James Welles

Report ID:
A4K1687 - 12 20 24 1640

ANALYTICAL CASE NARRATIVE

Work Order: **A4K1687**

Apex Laboratories

Total Dissolved Solids (TDS) by SM 2540 C:

Sample "MW-108R-20241125" (Apex Laboratories ID A4K1687-04) was submitted for TDS analysis. Sample was originally analyzed within holding time. However, the amount of residue exceeded the method limit requiring re-analysis with a smaller sample volume. Sample was re-analyzed out of holding time on 12/6/24 and value from re-analysis meets method residue criteria. At the request of the client, both values are reported herein.

Dean Strom
Wetchem Manager
12/09/2024

Subcontract

This report is complete only if it includes the attached subcontract laboratory report from Air Technology Laboratories .

Cameron O'Brien
Project Manager

Apex Laboratories

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Cameron O'Brien, Project Manager



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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20241125 (A4K1687-01)				Matrix: Water		Batch: 24L0164		
Diesel	129	---	76.2	ug/L	1	12/05/24 21:44	NWTPH-Dx LL	F-13
Oil	ND	---	152	ug/L	1	12/05/24 21:44	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 96 %		Limits: 50-150 %	1	12/05/24 21:44	NWTPH-Dx LL	
MW-104-20241125 (A4K1687-02)				Matrix: Water		Batch: 24L0164		
Diesel	119	---	76.2	ug/L	1	12/05/24 22:07	NWTPH-Dx LL	F-13
Oil	465	---	152	ug/L	1	12/05/24 22:07	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %	1	12/05/24 22:07	NWTPH-Dx LL	
MW-105-20241125 (A4K1687-03)				Matrix: Water		Batch: 24L0001		
Diesel	406	---	76.2	ug/L	1	12/02/24 22:02	NWTPH-Dx LL	F-13
Oil	ND	---	152	ug/L	1	12/02/24 22:02	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 72 %		Limits: 50-150 %	1	12/02/24 22:02	NWTPH-Dx LL	
MW-108R-20241125 (A4K1687-04)				Matrix: Water		Batch: 24L0001		
Diesel	ND	---	75.5	ug/L	1	12/02/24 22:42	NWTPH-Dx LL	
Oil	ND	---	151	ug/L	1	12/02/24 22:42	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 74 %		Limits: 50-150 %	1	12/02/24 22:42	NWTPH-Dx LL	
MW-102R-20241125 (A4K1687-05)				Matrix: Water		Batch: 24L0164		
Diesel	126	---	79.2	ug/L	1	12/05/24 22:54	NWTPH-Dx LL	F-13
Oil	ND	---	158	ug/L	1	12/05/24 22:54	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 71 %		Limits: 50-150 %	1	12/05/24 22:54	NWTPH-Dx LL	
B-6R-20241125 (A4K1687-06)				Matrix: Water		Batch: 24L0164		
Diesel	ND	---	80.8	ug/L	1	12/05/24 23:41	NWTPH-Dx LL	
Oil	ND	---	162	ug/L	1	12/05/24 23:41	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 78 %		Limits: 50-150 %	1	12/05/24 23:41	NWTPH-Dx LL	
MW-107R-20241126 (A4K1687-07)				Matrix: Water		Batch: 24L0164		
Diesel	1100	---	78.4	ug/L	1	12/06/24 00:04	NWTPH-Dx LL	F-13
Oil	ND	---	157	ug/L	1	12/06/24 00:04	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %	1	12/06/24 00:04	NWTPH-Dx LL	

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-101R-20241126 (A4K1687-08)				Matrix: Water		Batch: 24L0164		
Diesel	1730	---	79.2	ug/L	1	12/06/24 00:51	NWTPH-Dx LL	F-13
Oil	ND	---	158	ug/L	1	12/06/24 00:51	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 78 %		Limits: 50-150 %	1	12/06/24 00:51	NWTPH-Dx LL	

Apex Laboratories

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Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20241125 (A4K1687-01)				Matrix: Water		Batch: 24K0963		
Gasoline Range Organics	157	---	100	ug/L	1	11/27/24 11:08	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 97 %	Limits: 50-150 %	1	11/27/24 11:08	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		106 %	50-150 %	1	11/27/24 11:08	NWTPH-Gx (MS)		
MW-104-20241125 (A4K1687-02)				Matrix: Water		Batch: 24K0963		
Gasoline Range Organics	ND	---	100	ug/L	1	11/27/24 11:36	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 97 %	Limits: 50-150 %	1	11/27/24 11:36	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		104 %	50-150 %	1	11/27/24 11:36	NWTPH-Gx (MS)		
MW-105-20241125 (A4K1687-03)				Matrix: Water		Batch: 24K0963		
Gasoline Range Organics	604	---	100	ug/L	1	11/27/24 14:21	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 88 %	Limits: 50-150 %	1	11/27/24 14:21	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		96 %	50-150 %	1	11/27/24 14:21	NWTPH-Gx (MS)		
MW-108R-20241125 (A4K1687-04)				Matrix: Water		Batch: 24K0963		
Gasoline Range Organics	ND	---	100	ug/L	1	11/27/24 12:03	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 95 %	Limits: 50-150 %	1	11/27/24 12:03	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		105 %	50-150 %	1	11/27/24 12:03	NWTPH-Gx (MS)		
MW-102R-20241125 (A4K1687-05)				Matrix: Water		Batch: 24K0963		
Gasoline Range Organics	ND	---	100	ug/L	1	11/27/24 12:31	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 98 %	Limits: 50-150 %	1	11/27/24 12:31	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		106 %	50-150 %	1	11/27/24 12:31	NWTPH-Gx (MS)		
B-6R-20241125 (A4K1687-06)				Matrix: Water		Batch: 24K0963		
Gasoline Range Organics	ND	---	100	ug/L	1	11/27/24 12:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 97 %	Limits: 50-150 %	1	11/27/24 12:58	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		106 %	50-150 %	1	11/27/24 12:58	NWTPH-Gx (MS)		
MW-107R-20241126 (A4K1687-07)				Matrix: Water		Batch: 24K0963		
Gasoline Range Organics	3060	---	100	ug/L	1	11/27/24 13:26	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 105 %	Limits: 50-150 %	1	11/27/24 13:26	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		105 %	50-150 %	1	11/27/24 13:26	NWTPH-Gx (MS)		

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Cameron O'Brien, Project Manager



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Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-101R-20241126 (A4K1687-08)				Matrix: Water		Batch: 24K0963		
Gasoline Range Organics	3360	---	100	ug/L	1	11/27/24 13:54	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	93 %	Limits: 50-150 %	1	11/27/24 13:54	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			95 %	50-150 %	1	11/27/24 13:54	NWTPH-Gx (MS)	

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20241125 (A4K1687-01)				Matrix: Water		Batch: 24K0963		
Benzene	ND	---	0.200	ug/L	1	11/27/24 11:08	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	11/27/24 11:08	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	11/27/24 11:08	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	11/27/24 11:08	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	11/27/24 11:08	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	11/27/24 11:08	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	106 %	Limits:	80-120 %	1	11/27/24 11:08	EPA 8260D
Toluene-d8 (Surr)			103 %		80-120 %	1	11/27/24 11:08	EPA 8260D
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	11/27/24 11:08	EPA 8260D
MW-104-20241125 (A4K1687-02)				Matrix: Water		Batch: 24K0963		
Benzene	ND	---	0.200	ug/L	1	11/27/24 11:36	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	11/27/24 11:36	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	11/27/24 11:36	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	11/27/24 11:36	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	11/27/24 11:36	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	11/27/24 11:36	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	107 %	Limits:	80-120 %	1	11/27/24 11:36	EPA 8260D
Toluene-d8 (Surr)			102 %		80-120 %	1	11/27/24 11:36	EPA 8260D
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	11/27/24 11:36	EPA 8260D
MW-105-20241125 (A4K1687-03)				Matrix: Water		Batch: 24K0963		
Benzene	64.6	---	0.200	ug/L	1	11/27/24 14:21	EPA 8260D	
Toluene	1.03	---	1.00	ug/L	1	11/27/24 14:21	EPA 8260D	
Ethylbenzene	1.18	---	0.500	ug/L	1	11/27/24 14:21	EPA 8260D	
m,p-Xylene	1.00	---	1.00	ug/L	1	11/27/24 14:21	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	11/27/24 14:21	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	11/27/24 14:21	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	100 %	Limits:	80-120 %	1	11/27/24 14:21	EPA 8260D
Toluene-d8 (Surr)			100 %		80-120 %	1	11/27/24 14:21	EPA 8260D
4-Bromofluorobenzene (Surr)			98 %		80-120 %	1	11/27/24 14:21	EPA 8260D
MW-108R-20241125 (A4K1687-04)				Matrix: Water		Batch: 24K0963		
Benzene	ND	---	0.200	ug/L	1	11/27/24 12:03	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	11/27/24 12:03	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	11/27/24 12:03	EPA 8260D	

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20241125 (A4K1687-04)				Matrix: Water		Batch: 24K0963		
m,p-Xylene	ND	---	1.00	ug/L	1	11/27/24 12:03	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	11/27/24 12:03	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	11/27/24 12:03	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	107 %	Limits:	80-120 %	1	11/27/24 12:03	EPA 8260D
Toluene-d8 (Surr)			104 %		80-120 %	1	11/27/24 12:03	EPA 8260D
4-Bromofluorobenzene (Surr)			104 %		80-120 %	1	11/27/24 12:03	EPA 8260D
MW-102R-20241125 (A4K1687-05)				Matrix: Water		Batch: 24K0963		
Benzene	ND	---	0.200	ug/L	1	11/27/24 12:31	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	11/27/24 12:31	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	11/27/24 12:31	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	11/27/24 12:31	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	11/27/24 12:31	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	11/27/24 12:31	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	109 %	Limits:	80-120 %	1	11/27/24 12:31	EPA 8260D
Toluene-d8 (Surr)			103 %		80-120 %	1	11/27/24 12:31	EPA 8260D
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	11/27/24 12:31	EPA 8260D
B-6R-20241125 (A4K1687-06)				Matrix: Water		Batch: 24K0963		
Benzene	ND	---	0.200	ug/L	1	11/27/24 12:58	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	11/27/24 12:58	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	11/27/24 12:58	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	11/27/24 12:58	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	11/27/24 12:58	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	11/27/24 12:58	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	108 %	Limits:	80-120 %	1	11/27/24 12:58	EPA 8260D
Toluene-d8 (Surr)			101 %		80-120 %	1	11/27/24 12:58	EPA 8260D
4-Bromofluorobenzene (Surr)			103 %		80-120 %	1	11/27/24 12:58	EPA 8260D
MW-107R-20241126 (A4K1687-07)				Matrix: Water		Batch: 24K0963		
Benzene	2.33	---	0.200	ug/L	1	11/27/24 13:26	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	11/27/24 13:26	EPA 8260D	
Ethylbenzene	2.99	---	0.500	ug/L	1	11/27/24 13:26	EPA 8260D	
m,p-Xylene	2.66	---	1.00	ug/L	1	11/27/24 13:26	EPA 8260D	
o-Xylene	1.44	---	0.500	ug/L	1	11/27/24 13:26	EPA 8260D	
Xylenes, total	4.10	---	1.50	ug/L	1	11/27/24 13:26	EPA 8260D	

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503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union StationProject Number: **2644-001**Project Manager: **James Welles**Report ID:**A4K1687 - 12 20 24 1640**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-107R-20241126 (A4K1687-07)				Matrix: Water		Batch: 24K0963		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	107 %	Limits: 80-120 %	1	11/27/24 13:26	EPA 8260D	
Toluene-d8 (Surr)			103 %	80-120 %	1	11/27/24 13:26	EPA 8260D	
4-Bromofluorobenzene (Surr)			96 %	80-120 %	1	11/27/24 13:26	EPA 8260D	
MW-101R-20241126 (A4K1687-08)				Matrix: Water		Batch: 24K0963		
Benzene	39.3	---	0.200	ug/L	1	11/27/24 13:54	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	11/27/24 13:54	EPA 8260D	
Ethylbenzene	18.0	---	0.500	ug/L	1	11/27/24 13:54	EPA 8260D	
m,p-Xylene	2.60	---	1.00	ug/L	1	11/27/24 13:54	EPA 8260D	
o-Xylene	2.69	---	0.500	ug/L	1	11/27/24 13:54	EPA 8260D	
Xylenes, total	5.29	---	1.50	ug/L	1	11/27/24 13:54	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	100 %	Limits: 80-120 %	1	11/27/24 13:54	EPA 8260D	
Toluene-d8 (Surr)			100 %	80-120 %	1	11/27/24 13:54	EPA 8260D	
4-Bromofluorobenzene (Surr)			97 %	80-120 %	1	11/27/24 13:54	EPA 8260D	

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20241125 (A4K1687-01)				Matrix: Water		Batch: 24K0977		
Acenaphthene	30.8	0.159	0.318	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Acenaphthylene	1.86	0.159	0.318	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Anthracene	0.362	0.159	0.318	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Benz(a)anthracene	ND	0.0796	0.159	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.0796	0.159	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0796	0.159	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0796	0.159	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.159	0.318	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Chrysene	ND	0.0796	0.159	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0796	0.159	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Fluoranthene	0.195	0.159	0.318	ug/L	10	11/27/24 16:07	EPA 8270E LVI	J
Fluorene	5.49	0.159	0.318	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0796	0.159	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
1-Methylnaphthalene	5.81	0.318	0.637	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
2-Methylnaphthalene	0.744	0.318	0.637	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Naphthalene	1.16	0.318	0.637	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Phenanthrene	1.58	0.318	0.637	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Pyrene	0.223	0.159	0.318	ug/L	10	11/27/24 16:07	EPA 8270E LVI	J
Dibenzofuran	ND	0.159	0.318	ug/L	10	11/27/24 16:07	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 79 %		Limits: 78-134 %	10	11/27/24 16:07	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		112 %		80-132 %	10	11/27/24 16:07	EPA 8270E LVI	S-05

MW-104-20241125 (A4K1687-02)

Matrix: Water

Batch: 24K0977

Acenaphthene	50.0	0.161	0.322	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Acenaphthylene	3.17	0.161	0.322	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Anthracene	ND	0.161	0.322	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Benz(a)anthracene	0.0885	0.0804	0.161	ug/L	10	11/27/24 16:40	EPA 8270E LVI	J
Benzo(a)pyrene	ND	0.0804	0.161	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0804	0.161	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0804	0.161	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.161	0.322	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Chrysene	ND	0.0804	0.161	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0804	0.161	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Fluoranthene	1.36	0.161	0.322	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Fluorene	1.50	0.161	0.322	ug/L	10	11/27/24 16:40	EPA 8270E LVI	M-04
Indeno(1,2,3-cd)pyrene	ND	0.0804	0.161	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.322	0.643	ug/L	10	11/27/24 16:40	EPA 8270E LVI	

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-104-20241125 (A4K1687-02)				Matrix: Water		Batch: 24K0977		
2-Methylnaphthalene	ND	0.322	0.643	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Naphthalene	ND	0.322	0.643	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Phenanthrene	ND	0.322	0.643	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Pyrene	1.07	0.161	0.322	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Dibenzofuran	ND	0.161	0.322	ug/L	10	11/27/24 16:40	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 80 %		Limits: 78-134 %	10	11/27/24 16:40	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		122 %		80-132 %	10	11/27/24 16:40	EPA 8270E LVI	S-05
MW-105-20241125 (A4K1687-03)				Matrix: Water		Batch: 24K0977		
Acenaphthene	33.1	0.163	0.325	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Acenaphthylene	3.08	0.163	0.325	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Anthracene	2.52	0.163	0.325	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Benz(a)anthracene	0.431	0.0813	0.163	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Benzo(a)pyrene	0.207	0.0813	0.163	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Benzo(b)fluoranthene	0.216	0.0813	0.163	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0813	0.163	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.163	0.325	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Chrysene	0.277	0.0813	0.163	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0813	0.163	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Fluoranthene	4.08	0.163	0.325	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Fluorene	10.9	0.163	0.325	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0813	0.163	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
1-Methylnaphthalene	13.6	0.325	0.651	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
2-Methylnaphthalene	9.45	0.325	0.651	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Naphthalene	20.5	0.325	0.651	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Phenanthrene	6.76	0.325	0.651	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Pyrene	3.69	0.163	0.325	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Dibenzofuran	5.82	0.163	0.325	ug/L	10	11/27/24 17:12	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 70 %		Limits: 78-134 %	10	11/27/24 17:12	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		103 %		80-132 %	10	11/27/24 17:12	EPA 8270E LVI	S-05
MW-108R-20241125 (A4K1687-04)				Matrix: Water		Batch: 24K0977		
Acenaphthene	0.397	0.0165	0.0330	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Acenaphthylene	0.0527	0.0165	0.0330	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Anthracene	0.138	0.0165	0.0330	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Benz(a)anthracene	0.0128	0.00824	0.0165	ug/L	1	11/27/24 17:45	EPA 8270E LVI	J

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20241125 (A4K1687-04)				Matrix: Water		Batch: 24K0977		
Benzo(a)pyrene	ND	0.00824	0.0165	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00824	0.0165	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00824	0.0165	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0165	0.0330	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Chrysene	ND	0.00824	0.0165	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00824	0.0165	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Fluoranthene	0.0499	0.0165	0.0330	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Fluorene	0.212	0.0165	0.0330	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00824	0.0165	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
1-Methylnaphthalene	0.0552	0.0330	0.0659	ug/L	1	11/27/24 17:45	EPA 8270E LVI	J
2-Methylnaphthalene	0.0350	0.0330	0.0659	ug/L	1	11/27/24 17:45	EPA 8270E LVI	J
Naphthalene	0.0589	0.0330	0.0659	ug/L	1	11/27/24 17:45	EPA 8270E LVI	J
Phenanthrene	0.272	0.0330	0.0659	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Pyrene	0.0490	0.0165	0.0330	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Dibenzofuran	0.0705	0.0165	0.0330	ug/L	1	11/27/24 17:45	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 94 %		Limits: 78-134 %	1	11/27/24 17:45	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		115 %		80-132 %	1	11/27/24 17:45	EPA 8270E LVI	

MW-102R-20241125 (A4K1687-05)

Matrix: Water

Batch: 24K0977

Acenaphthene	11.4	0.0643	0.129	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Acenaphthylene	1.39	0.0643	0.129	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Anthracene	0.761	0.0643	0.129	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Benz(a)anthracene	ND	0.0322	0.0643	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.0322	0.0643	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0322	0.0643	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0322	0.0643	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0643	0.129	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Chrysene	ND	0.0322	0.0643	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0322	0.0643	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Fluoranthene	0.484	0.0643	0.129	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Fluorene	4.05	0.0643	0.129	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0322	0.0643	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
1-Methylnaphthalene	0.330	0.129	0.257	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.129	0.257	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Naphthalene	ND	0.129	0.257	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Phenanthrene	0.930	0.129	0.257	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Pyrene	0.376	0.0643	0.129	ug/L	4	11/27/24 18:17	EPA 8270E LVI	

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Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20241125 (A4K1687-05)				Matrix: Water		Batch: 24K0977		
Dibenzofuran	0.362	0.0643	0.129	ug/L	4	11/27/24 18:17	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 79 %		Limits: 78-134 %	4	11/27/24 18:17	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		117 %		80-132 %	4	11/27/24 18:17	EPA 8270E LVI	S-05
B-6R-20241125 (A4K1687-06)				Matrix: Water		Batch: 24K0977		
Acenaphthene	0.0328	0.0187	0.0375	ug/L	1	11/27/24 18:50	EPA 8270E LVI	J
Acenaphthylene	0.0487	0.0187	0.0375	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Anthracene	ND	0.0187	0.0375	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00937	0.0187	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00937	0.0187	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00937	0.0187	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00937	0.0187	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0187	0.0375	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Chrysene	ND	0.00937	0.0187	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00937	0.0187	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Fluoranthene	ND	0.0187	0.0375	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Fluorene	ND	0.0187	0.0375	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00937	0.0187	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0375	0.0749	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0375	0.0749	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Naphthalene	0.0632	0.0375	0.0749	ug/L	1	11/27/24 18:50	EPA 8270E LVI	J
Phenanthrene	0.0407	0.0375	0.0749	ug/L	1	11/27/24 18:50	EPA 8270E LVI	J
Pyrene	ND	0.0187	0.0375	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Dibenzofuran	ND	0.0187	0.0375	ug/L	1	11/27/24 18:50	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 91 %		Limits: 78-134 %	1	11/27/24 18:50	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		116 %		80-132 %	1	11/27/24 18:50	EPA 8270E LVI	
MW-107R-20241126 (A4K1687-07)				Matrix: Water		Batch: 24K0977		
Acenaphthylene	4.52	0.0180	0.0360	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Anthracene	2.27	0.0180	0.0360	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Benz(a)anthracene	0.0225	0.00900	0.0180	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Benzo(a)pyrene	0.00900	0.00900	0.0180	ug/L	1	11/27/24 19:22	EPA 8270E LVI	J
Benzo(b)fluoranthene	ND	0.00900	0.0180	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00900	0.0180	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0180	0.0360	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Chrysene	0.0162	0.00900	0.0180	ug/L	1	11/27/24 19:22	EPA 8270E LVI	J

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-107R-20241126 (A4K1687-07)				Matrix: Water		Batch: 24K0977		
Dibenz(a,h)anthracene	ND	0.00900	0.0180	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Fluoranthene	1.09	0.0180	0.0360	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00900	0.0180	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Phenanthrene	11.5	0.0360	0.0720	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Pyrene	1.06	0.0180	0.0360	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Dibenzofuran	6.34	0.0180	0.0360	ug/L	1	11/27/24 19:22	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 89 %		Limits: 78-134 %	1	11/27/24 19:22	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		118 %		80-132 %	1	11/27/24 19:22	EPA 8270E LVI	
MW-107R-20241126 (A4K1687-07RE1)				Matrix: Water		Batch: 24K0977		
Acenaphthene	143	0.360	0.720	ug/L	20	12/02/24 11:28	EPA 8270E LVI	
Fluorene	37.7	0.360	0.720	ug/L	20	12/02/24 11:28	EPA 8270E LVI	
1-Methylnaphthalene	152	0.720	1.44	ug/L	20	12/02/24 11:28	EPA 8270E LVI	
2-Methylnaphthalene	132	0.720	1.44	ug/L	20	12/02/24 11:28	EPA 8270E LVI	
Naphthalene	227	0.720	1.44	ug/L	20	12/02/24 11:28	EPA 8270E LVI	
MW-101R-20241126 (A4K1687-08)				Matrix: Water		Batch: 24K0977		
Acenaphthene	182	1.63	3.25	ug/L	100	11/27/24 19:54	EPA 8270E LVI	R-02
Acenaphthylene	ND	10.2	10.2	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Anthracene	4.35	1.63	3.25	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Benz(a)anthracene	ND	0.814	1.63	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.814	1.63	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.814	1.63	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.814	1.63	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	1.63	3.25	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Chrysene	ND	0.814	1.63	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.814	1.63	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Fluoranthene	3.62	1.63	3.25	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Fluorene	58.4	1.63	3.25	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.814	1.63	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
1-Methylnaphthalene	302	3.25	6.51	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
2-Methylnaphthalene	305	3.25	6.51	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Naphthalene	190	3.25	6.51	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Phenanthrene	36.9	3.25	6.51	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Pyrene	3.58	1.63	3.25	ug/L	100	11/27/24 19:54	EPA 8270E LVI	
Dibenzofuran	13.8	1.63	3.25	ug/L	100	11/27/24 19:54	EPA 8270E LVI	

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Project: Union Station
Project Number: 2644-001
Project Manager: James Welles

Report ID:
A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-101R-20241126 (A4K1687-08)				Matrix: Water		Batch: 24K0977		
Surrogate: Acenaphthylene-d8 (Surr)			Recovery: %	Limits: 78-134 %	100	11/27/24 19:54	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)			166 %	80-132 %	100	11/27/24 19:54	EPA 8270E LVI	S-05

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

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A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20241125 (A4K1687-01)				Matrix: Water				
Batch: 24L0355								
Arsenic	ND	---	1.00	ug/L	1	12/11/24 04:40	EPA 6020B	
MW-104-20241125 (A4K1687-02)				Matrix: Water				
Batch: 24L0355								
Arsenic	ND	---	1.00	ug/L	1	12/11/24 04:45	EPA 6020B	
MW-105-20241125 (A4K1687-03)				Matrix: Water				
Batch: 24L0355								
Arsenic	8.60	---	1.00	ug/L	1	12/11/24 04:51	EPA 6020B	
MW-108R-20241125 (A4K1687-04)				Matrix: Water				
Batch: 24L0355								
Arsenic	ND	---	1.00	ug/L	1	12/11/24 04:57	EPA 6020B	
MW-102R-20241125 (A4K1687-05)				Matrix: Water				
Batch: 24L0355								
Arsenic	4.34	---	1.00	ug/L	1	12/11/24 05:04	EPA 6020B	
B-6R-20241125 (A4K1687-06)				Matrix: Water				
Batch: 24L0355								
Arsenic	40.2	---	1.00	ug/L	1	12/11/24 05:10	EPA 6020B	
MW-107R-20241126 (A4K1687-07)				Matrix: Water				
Batch: 24L0355								
Arsenic	6.09	---	1.00	ug/L	1	12/11/24 05:17	EPA 6020B	
MW-101R-20241126 (A4K1687-08)				Matrix: Water				
Batch: 24L0355								
Arsenic	6.37	---	1.00	ug/L	1	12/11/24 05:23	EPA 6020B	

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Project Manager: James Welles

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A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20241125 (A4K1687-01)				Matrix: Water				
Batch: 24L0388								
Arsenic	ND	---	1.00	ug/L	1	12/11/24 16:45	EPA 6020B (Diss)	
MW-104-20241125 (A4K1687-02)				Matrix: Water				
Batch: 24L0388								
Arsenic	ND	---	1.00	ug/L	1	12/11/24 16:51	EPA 6020B (Diss)	
MW-105-20241125 (A4K1687-03)				Matrix: Water				
Batch: 24L0388								
Arsenic	7.10	---	1.00	ug/L	1	12/11/24 17:06	EPA 6020B (Diss)	
MW-108R-20241125 (A4K1687-04)				Matrix: Water				
Batch: 24L0388								
Arsenic	ND	---	1.00	ug/L	1	12/11/24 17:13	EPA 6020B (Diss)	
MW-102R-20241125 (A4K1687-05)				Matrix: Water				
Batch: 24L0388								
Arsenic	3.84	---	1.00	ug/L	1	12/11/24 17:19	EPA 6020B (Diss)	
B-6R-20241125 (A4K1687-06)				Matrix: Water				
Batch: 24L0388								
Arsenic	40.9	---	1.00	ug/L	1	12/11/24 17:26	EPA 6020B (Diss)	
B-6R-20241125 (A4K1687-06RE2)				Matrix: Water				
Batch: 24L0712								
Arsenic	7.81	---	1.00	ug/L	1	12/19/24 20:25	EPA 6020B (Diss)	FILT1
MW-107R-20241126 (A4K1687-07)				Matrix: Water				
Batch: 24L0388								
Arsenic	6.33	---	1.00	ug/L	1	12/11/24 17:32	EPA 6020B (Diss)	
MW-101R-20241126 (A4K1687-08)				Matrix: Water				
Batch: 24L0388								
Arsenic	6.45	---	1.00	ug/L	1	12/11/24 17:38	EPA 6020B (Diss)	

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20241125 (A4K1687-01)				Matrix: Water				
Batch: 24K0960								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	11/27/24 09:07	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	11/27/24 09:07	EPA 300.0	
MW-104-20241125 (A4K1687-02)				Matrix: Water				
Batch: 24K0960								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	11/27/24 10:12	EPA 300.0	
Sulfate	3.91	---	1.00	mg/L	1	11/27/24 10:12	EPA 300.0	
MW-105-20241125 (A4K1687-03)				Matrix: Water				
Batch: 24K0960								
Sulfate	ND	---	1.00	mg/L	1	11/27/24 10:33	EPA 300.0	
MW-105-20241125 (A4K1687-03RE1)				Matrix: Water				
Batch: 24L0021								
Nitrate-Nitrogen	ND	---	1.25	mg/L	5	12/02/24 14:44	EPA 300.0	R-04,H-01
MW-108R-20241125 (A4K1687-04)				Matrix: Water				
Batch: 24K0960								
Sulfate	ND	---	1.00	mg/L	1	11/27/24 10:55	EPA 300.0	
MW-108R-20241125 (A4K1687-04RE1)				Matrix: Water				
Batch: 24L0021								
Nitrate-Nitrogen	ND	---	2.50	mg/L	10	12/02/24 15:05	EPA 300.0	R-04,H-01
MW-102R-20241125 (A4K1687-05)				Matrix: Water				
Batch: 24K0960								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	11/27/24 11:16	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	11/27/24 11:16	EPA 300.0	
B-6R-20241125 (A4K1687-06)				Matrix: Water				
Batch: 24K0960								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	11/27/24 11:38	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	11/27/24 11:38	EPA 300.0	

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-107R-20241126 (A4K1687-07)				Matrix: Water				
Batch: 24K0960								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	11/27/24 12:42	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	11/27/24 12:42	EPA 300.0	
MW-101R-20241126 (A4K1687-08)				Matrix: Water				
Batch: 24K0960								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	11/27/24 13:04	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	11/27/24 13:04	EPA 300.0	

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ANALYTICAL REPORT

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20241125 (A4K1687-01)				Matrix: Water				
Batch: 24K0945								
Total Dissolved Solids	464	---	5.00	mg/L	1	11/27/24 18:25	SM 2540 C	
Batch: 24K0979								
Total Suspended Solids	5.00	---	5.00	mg/L	1	11/27/24 16:25	SM 2540 D	TSS
MW-104-20241125 (A4K1687-02)				Matrix: Water				
Batch: 24K0945								
Total Dissolved Solids	427	---	5.00	mg/L	1	11/27/24 18:25	SM 2540 C	
Batch: 24K0979								
Total Suspended Solids	5.00	---	5.00	mg/L	1	11/27/24 16:25	SM 2540 D	TSS
MW-105-20241125 (A4K1687-03)				Matrix: Water				
Batch: 24K0945								
Total Dissolved Solids	2990	---	50.0	mg/L	1	11/27/24 18:25	SM 2540 C	
Batch: 24K0979								
Total Suspended Solids	35.0	---	5.00	mg/L	1	11/27/24 16:25	SM 2540 D	
MW-108R-20241125 (A4K1687-04)				Matrix: Water				
Batch: 24K0945								
Total Dissolved Solids	9700	---	10.0	mg/L	1	11/27/24 18:25	SM 2540 C	RR-2, X
Batch: 24K0979								
Total Suspended Solids	51.0	---	5.00	mg/L	1	11/27/24 16:25	SM 2540 D	
MW-108R-20241125 (A4K1687-04RE1)				Matrix: Water				
Batch: 24L0243								
Total Dissolved Solids	9580	---	50.0	mg/L	1	12/06/24 19:01	SM 2540 C	H-01
MW-102R-20241125 (A4K1687-05)				Matrix: Water				
Batch: 24K0945								
Total Dissolved Solids	1760	---	20.0	mg/L	1	11/27/24 18:25	SM 2540 C	
Batch: 24K0979								
Total Suspended Solids	46.0	---	5.00	mg/L	1	11/27/24 16:25	SM 2540 D	
B-6R-20241125 (A4K1687-06)				Matrix: Water				
Batch: 24K0945								

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ANALYTICAL REPORT

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Project: Union Station
Project Number: **2644-001**
Project Manager: **James Welles**

Report ID:
A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-6R-20241125 (A4K1687-06)				Matrix: Water				
Total Dissolved Solids Batch: 24K0979	888	---	10.0	mg/L	1	11/27/24 18:25	SM 2540 C	
Total Suspended Solids	12.0	---	5.00	mg/L	1	11/27/24 16:25	SM 2540 D	TSS
MW-107R-20241126 (A4K1687-07)				Matrix: Water				
Total Dissolved Solids Batch: 24K0945	1070	---	10.0	mg/L	1	11/27/24 18:25	SM 2540 C	
Total Suspended Solids	15.0	---	5.00	mg/L	1	11/27/24 16:25	SM 2540 D	TSS
MW-101R-20241126 (A4K1687-08)				Matrix: Water				
Total Dissolved Solids Batch: 24K0979	1100	---	10.0	mg/L	1	11/27/24 18:25	SM 2540 C	
Total Suspended Solids	67.0	---	5.00	mg/L	1	11/27/24 16:25	SM 2540 D	

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503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**

Project Number: **2644-001**

Project Manager: **James Welles**

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20241125 (A4K1687-01)				Matrix: Water				
Batch: 24K0970								
Total Alkalinity	371	---	20.0	mg CaCO3/L	1	11/27/24 10:40	SM 2320 B	
Bicarbonate Alkalinity	371	---	20.0	mg CaCO3/L	1	11/27/24 10:40	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 10:40	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 10:40	SM 2320 B	
MW-104-20241125 (A4K1687-02)				Matrix: Water				
Batch: 24K0970								
Total Alkalinity	328	---	20.0	mg CaCO3/L	1	11/27/24 10:49	SM 2320 B	
Bicarbonate Alkalinity	328	---	20.0	mg CaCO3/L	1	11/27/24 10:49	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 10:49	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 10:49	SM 2320 B	
MW-105-20241125 (A4K1687-03)				Matrix: Water				
Batch: 24K0970								
Total Alkalinity	1310	---	20.0	mg CaCO3/L	1	11/27/24 10:59	SM 2320 B	
Bicarbonate Alkalinity	1310	---	20.0	mg CaCO3/L	1	11/27/24 10:59	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 10:59	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 10:59	SM 2320 B	
MW-108R-20241125 (A4K1687-04)				Matrix: Water				
Batch: 24K0970								
Total Alkalinity	2790	---	20.0	mg CaCO3/L	1	11/27/24 11:12	SM 2320 B	
Bicarbonate Alkalinity	2790	---	20.0	mg CaCO3/L	1	11/27/24 11:12	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 11:12	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 11:12	SM 2320 B	
MW-102R-20241125 (A4K1687-05)				Matrix: Water				
Batch: 24K0970								
Total Alkalinity	727	---	20.0	mg CaCO3/L	1	11/27/24 11:33	SM 2320 B	
Bicarbonate Alkalinity	727	---	20.0	mg CaCO3/L	1	11/27/24 11:33	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 11:33	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 11:33	SM 2320 B	
B-6R-20241125 (A4K1687-06)				Matrix: Water				
Batch: 24K0970								

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-6R-20241125 (A4K1687-06)				Matrix: Water				
Total Alkalinity	742	---	20.0	mg CaCO3/L	1	11/27/24 11:46	SM 2320 B	
Bicarbonate Alkalinity	742	---	20.0	mg CaCO3/L	1	11/27/24 11:46	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 11:46	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 11:46	SM 2320 B	
MW-107R-20241126 (A4K1687-07)				Matrix: Water				
Batch: 24K0970								
Total Alkalinity	800	---	20.0	mg CaCO3/L	1	11/27/24 12:08	SM 2320 B	
Bicarbonate Alkalinity	800	---	20.0	mg CaCO3/L	1	11/27/24 12:08	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 12:08	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 12:08	SM 2320 B	
MW-101R-20241126 (A4K1687-08)				Matrix: Water				
Batch: 24K0970								
Total Alkalinity	830	---	20.0	mg CaCO3/L	1	11/27/24 12:24	SM 2320 B	
Bicarbonate Alkalinity	830	---	20.0	mg CaCO3/L	1	11/27/24 12:24	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 12:24	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	11/27/24 12:24	SM 2320 B	

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A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0001 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (24L0001-BLK1)		Prepared: 12/02/24 05:00 Analyzed: 12/02/24 19:58										
NWTPH-Dx LL												
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 78 %		Limits: 50-150 %		Dilution: 1x						
LCS (24L0001-BS1)		Prepared: 12/02/24 05:00 Analyzed: 12/02/24 20:19										
NWTPH-Dx LL												
Diesel	292	---	80.0	ug/L	1	500	---	58	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 76 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (24L0001-BSD1)		Prepared: 12/02/24 05:00 Analyzed: 12/02/24 20:39										
NWTPH-Dx LL												
Diesel	291	---	80.0	ug/L	1	500	---	58	36 - 132%	0.3	30%	
Surr: o-Terphenyl (Surr)		Recovery: 73 %		Limits: 50-150 %		Dilution: 1x						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 24L0164 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (24L0164-BLK1)			Prepared: 12/05/24 11:07 Analyzed: 12/05/24 20:33									
<u>NWTPH-Dx LL</u>												
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						
LCS (24L0164-BS1)			Prepared: 12/05/24 11:07 Analyzed: 12/05/24 20:57									
<u>NWTPH-Dx LL</u>												
Diesel	451	---	80.0	ug/L	1	500	---	90	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (24L0164-BSD1)			Prepared: 12/05/24 11:07 Analyzed: 12/05/24 21:20									Q-19
<u>NWTPH-Dx LL</u>												
Diesel	468	---	80.0	ug/L	1	500	---	94	36 - 132%	3	30%	
Surr: o-Terphenyl (Surr)		Recovery: 101 %		Limits: 50-150 %		Dilution: 1x						

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

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A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0164 - EPA 3510C (Fuels/Acid Ext.)							Water					

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0963 - EPA 5030C						Water						
Blank (24K0963-BLK1)		Prepared: 11/27/24 07:35 Analyzed: 11/27/24 10:40										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
LCS (24K0963-BS2)		Prepared: 11/27/24 07:35 Analyzed: 11/27/24 10:13										
NWTPH-Gx (MS)												
Gasoline Range Organics	437	---	100	ug/L	1	500	---	87	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 85 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		101 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4K1687 - 12 20 24 1640**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0963 - EPA 5030C												
Water												
Blank (24K0963-BLK1)												
Prepared: 11/27/24 07:35 Analyzed: 11/27/24 10:40												
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 107 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>101 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>106 % 80-120 % "</i>												
LCS (24K0963-BS1)												
Prepared: 11/27/24 07:35 Analyzed: 11/27/24 09:45												
EPA 8260D												
Benzene	18.4	---	0.200	ug/L	1	20.0	---	92	80 - 120%	---	---	
Toluene	18.4	---	1.00	ug/L	1	20.0	---	92	80 - 120%	---	---	
Ethylbenzene	18.9	---	0.500	ug/L	1	20.0	---	94	80 - 120%	---	---	
Xylenes, total	56.9	---	1.50	ug/L	1	60.0	---	95	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 103 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>98 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>91 % 80-120 % "</i>												
Matrix Spike (24K0963-MS1)												
Prepared: 11/27/24 07:35 Analyzed: 11/27/24 14:49												
QC Source Sample: B-4R-20241125 (A4K1687-01)												
EPA 8260D												
Benzene	19.9	---	0.200	ug/L	1	20.0	ND	100	79 - 120%	---	---	
Toluene	19.8	---	1.00	ug/L	1	20.0	ND	99	80 - 121%	---	---	
Ethylbenzene	19.6	---	0.500	ug/L	1	20.0	ND	98	79 - 121%	---	---	
Xylenes, total	60.5	---	1.50	ug/L	1	60.0	ND	101	79 - 121%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 103 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>96 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>92 % 80-120 % "</i>												

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0977 - EPA 3511 (Bottle Extraction)						Water						
Blank (24K0977-BLK1)		Prepared: 11/27/24 11:24		Analyzed: 11/27/24 14:30								
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benzo(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 88 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		112 %		80-132 %		"						

LCS (24K0977-BS1)

Prepared: 11/27/24 11:24 Analyzed: 11/27/24 15:02

EPA 8270E LVI

Acenaphthene	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	80 - 120%	---	---
Acenaphthylene	1.72	0.0160	0.0320	ug/L	1	1.60	---	107	80 - 124%	---	---
Anthracene	1.61	0.0160	0.0320	ug/L	1	1.60	---	101	80 - 123%	---	---
Benz(a)anthracene	1.65	0.00800	0.0160	ug/L	1	1.60	---	103	80 - 122%	---	---
Benzo(a)pyrene	1.83	0.00800	0.0160	ug/L	1	1.60	---	115	80 - 129%	---	---
Benzo(b)fluoranthene	1.78	0.00800	0.0160	ug/L	1	1.60	---	111	80 - 124%	---	---
Benzo(k)fluoranthene	1.75	0.00800	0.0160	ug/L	1	1.60	---	109	80 - 125%	---	---
Benzo(g,h,i)perylene	1.59	0.0160	0.0320	ug/L	1	1.60	---	100	80 - 120%	---	---

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0977 - EPA 3511 (Bottle Extraction)						Water						
LCS (24K0977-BS1)		Prepared: 11/27/24 11:24		Analyzed: 11/27/24 15:02								
Chrysene	1.56	0.00800	0.0160	ug/L	1	1.60	---	98	80 - 120%	---	---	
Dibenz(a,h)anthracene	1.57	0.00800	0.0160	ug/L	1	1.60	---	98	80 - 120%	---	---	
Fluoranthene	1.84	0.0160	0.0320	ug/L	1	1.60	---	115	80 - 126%	---	---	
Fluorene	1.74	0.0160	0.0320	ug/L	1	1.60	---	109	77 - 127%	---	---	
Indeno(1,2,3-cd)pyrene	1.48	0.00800	0.0160	ug/L	1	1.60	---	93	80 - 121%	---	---	
1-Methylnaphthalene	1.73	0.0320	0.0640	ug/L	1	1.60	---	108	53 - 148%	---	---	
2-Methylnaphthalene	1.71	0.0320	0.0640	ug/L	1	1.60	---	107	48 - 150%	---	---	
Naphthalene	1.62	0.0320	0.0640	ug/L	1	1.60	---	101	78 - 120%	---	---	
Phenanthrene	1.51	0.0320	0.0640	ug/L	1	1.60	---	94	80 - 120%	---	---	
Pyrene	1.82	0.0160	0.0320	ug/L	1	1.60	---	114	80 - 125%	---	---	
Carbazole	1.72	0.0160	0.0320	ug/L	1	1.60	---	108	65 - 141%	---	---	
Dibenzofuran	1.70	0.0160	0.0320	ug/L	1	1.60	---	106	76 - 121%	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 90 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		112 %		80-132 %		"						

LCS Dup (24K0977-BSD1)		Prepared: 11/27/24 11:24		Analyzed: 11/27/24 15:35								Q-19	
EPA 8270E LVI													
Acenaphthene	1.62	0.0160	0.0320	ug/L	1	1.60	---	101	80 - 120%	0.9	30%		
Acenaphthylene	1.66	0.0160	0.0320	ug/L	1	1.60	---	104	80 - 124%	3	30%		
Anthracene	1.62	0.0160	0.0320	ug/L	1	1.60	---	102	80 - 123%	0.8	30%		
Benz(a)anthracene	1.68	0.00800	0.0160	ug/L	1	1.60	---	105	80 - 122%	2	30%		
Benzo(a)pyrene	1.86	0.00800	0.0160	ug/L	1	1.60	---	116	80 - 129%	1	30%		
Benzo(b)fluoranthene	1.77	0.00800	0.0160	ug/L	1	1.60	---	111	80 - 124%	0.2	30%		
Benzo(k)fluoranthene	1.80	0.00800	0.0160	ug/L	1	1.60	---	112	80 - 125%	3	30%		
Benzo(g,h,i)perylene	1.56	0.0160	0.0320	ug/L	1	1.60	---	98	80 - 120%	2	30%		
Chrysene	1.58	0.00800	0.0160	ug/L	1	1.60	---	99	80 - 120%	1	30%		
Dibenz(a,h)anthracene	1.56	0.00800	0.0160	ug/L	1	1.60	---	97	80 - 120%	0.5	30%		
Fluoranthene	1.81	0.0160	0.0320	ug/L	1	1.60	---	113	80 - 126%	1	30%		
Fluorene	1.73	0.0160	0.0320	ug/L	1	1.60	---	108	77 - 127%	0.8	30%		
Indeno(1,2,3-cd)pyrene	1.51	0.00800	0.0160	ug/L	1	1.60	---	94	80 - 121%	2	30%		
1-Methylnaphthalene	1.61	0.0320	0.0640	ug/L	1	1.60	---	101	53 - 148%	7	30%		
2-Methylnaphthalene	1.63	0.0320	0.0640	ug/L	1	1.60	---	102	48 - 150%	5	30%		
Naphthalene	1.62	0.0320	0.0640	ug/L	1	1.60	---	101	78 - 120%	0.05	30%		
Phenanthrene	1.53	0.0320	0.0640	ug/L	1	1.60	---	96	80 - 120%	1	30%		

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ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4K1687 - 12 20 24 1640**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0977 - EPA 3511 (Bottle Extraction)							Water					
LCS Dup (24K0977-BSD1)		Prepared: 11/27/24 11:24			Analyzed: 11/27/24 15:35			Q-19				
Pyrene	1.77	0.0160	0.0320	ug/L	1	1.60	---	111	80 - 125%	3	30%	
Carbazole	1.81	0.0160	0.0320	ug/L	1	1.60	---	113	65 - 141%	5	30%	
Dibenzofuran	1.69	0.0160	0.0320	ug/L	1	1.60	---	106	76 - 121%	0.6	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 88 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		115 %		80-132 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0355 - EPA 3015A							Water					
Blank (24L0355-BLK1)		Prepared: 12/10/24 13:01			Analyzed: 12/11/24 03:53							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (24L0355-BS1)		Prepared: 12/10/24 13:01			Analyzed: 12/11/24 03:58							
EPA 6020B												
Arsenic	55.8	---	1.00	ug/L	1	55.6	---	100	80 - 120%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project Manager: James Welles

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A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0388 - Matrix Matched Direct Inject							Water					
Blank (24L0388-BLK1)		Prepared: 12/11/24 09:42			Analyzed: 12/11/24 16:08							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (24L0388-BS1)		Prepared: 12/11/24 09:42			Analyzed: 12/11/24 16:14							
EPA 6020B (Diss)												
Arsenic	53.2	---	1.00	ug/L	1	55.6	---	96	80 - 120%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0630 - Matrix Matched Direct Inject							Water					
Blank (24L0630-BLK1)		Prepared: 12/17/24 11:42 Analyzed: 12/17/24 22:54										
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (24L0630-BS1)		Prepared: 12/17/24 11:42 Analyzed: 12/17/24 23:00										
EPA 6020B (Diss)												
Arsenic	53.9	---	1.00	ug/L	1	55.6	---	97	80 - 120%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project Manager: James Welles

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A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0712 - Matrix Matched Direct Inject							Water					
Blank (24L0712-BLK1)		Prepared: 12/19/24 12:52			Analyzed: 12/19/24 20:15							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	FILT3
LCS (24L0712-BS1)		Prepared: 12/19/24 12:52			Analyzed: 12/19/24 20:20							
EPA 6020B (Diss)												
Arsenic	52.2	---	1.00	ug/L	1	55.6	---	94	80 - 120%	---	---	
Duplicate (24L0712-DUP1)		Prepared: 12/19/24 12:52			Analyzed: 12/19/24 20:31							
QC Source Sample: B-6R-20241125 (A4K1687-06RE2)												
EPA 6020B (Diss)												
Arsenic	7.68	---	1.00	ug/L	1	---	7.81	---	---	2	20%	FILT1
Matrix Spike (24L0712-MS1)		Prepared: 12/19/24 12:52			Analyzed: 12/19/24 20:36							
QC Source Sample: B-6R-20241125 (A4K1687-06RE2)												
EPA 6020B (Diss)												
Arsenic	59.5	---	1.00	ug/L	1	55.6	7.81	93	75 - 125%	---	---	FILT1

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Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4K1687 - 12 20 24 1640**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0960 - Method Prep: Aq							Water					
Blank (24K0960-BLK1)		Prepared: 11/27/24 07:00		Analyzed: 11/27/24 08:24								
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (24K0960-BS1)		Prepared: 11/27/24 07:00		Analyzed: 11/27/24 08:45								
EPA 300.0												
Nitrate-Nitrogen	1.98	---	0.250	mg/L	1	2.00	---	99	90 - 110%	---	---	
Sulfate	7.84	---	1.00	mg/L	1	8.00	---	98	90 - 110%	---	---	
Duplicate (24K0960-DUP1)		Prepared: 11/27/24 07:00		Analyzed: 11/27/24 09:28								
QC Source Sample: B-4R-20241125 (A4K1687-01)												
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	ND	---	---	---	10%	
Sulfate	ND	---	1.00	mg/L	1	---	ND	---	---	---	10%	
Matrix Spike (24K0960-MS1)		Prepared: 11/27/24 07:00		Analyzed: 11/27/24 09:50								
QC Source Sample: B-4R-20241125 (A4K1687-01)												
EPA 300.0												
Nitrate-Nitrogen	2.53	---	0.312	mg/L	1	2.50	ND	101	87 - 112%	---	---	
Sulfate	10.3	---	1.25	mg/L	1	10.0	ND	103	88 - 115%	---	---	

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Project Number: **2644-001**
Project Manager: **James Welles**

Report ID:
A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0021 - Method Prep: Aq							Water					
Blank (24L0021-BLK1)		Prepared: 12/02/24 10:26			Analyzed: 12/02/24 11:52							
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
LCS (24L0021-BS1)		Prepared: 12/02/24 10:26			Analyzed: 12/02/24 12:13							
EPA 300.0												
Nitrate-Nitrogen	1.99	---	0.250	mg/L	1	2.00	---	100	90 - 110%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0945 - Total Dissolved Solids - 2022							Water					
Blank (24K0945-BLK1)		Prepared: 11/27/24 18:25		Analyzed: 11/27/24 18:25								
SM 2540 C												
Total Dissolved Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (24K0945-DUP2)		Prepared: 11/27/24 18:25		Analyzed: 11/27/24 18:25								
QC Source Sample: B-6R-20241125 (A4K1687-06)												
SM 2540 C												
Total Dissolved Solids	886	---	10.0	mg/L	1	---	888	---	---	0.225	10%	
Reference (24K0945-SRM1)		Prepared: 11/27/24 18:25		Analyzed: 11/27/24 18:25								
SM 2540 C												
Total Dissolved Solids	2500	---		mg/L	1	2440		103	82 - 118%	---	---	

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Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4K1687 - 12 20 24 1640**

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0979 - Total Suspended Solids - 2022							Water					
Blank (24K0979-BLK1)		Prepared: 11/27/24 16:25			Analyzed: 11/27/24 16:25							
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Reference (24K0979-SRM1)		Prepared: 11/27/24 16:25			Analyzed: 11/27/24 16:25							
SM 2540 D												
Total Suspended Solids	774	---		mg/L	1	828		93.5	85 - 115%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0243 - Total Dissolved Solids - 2022							Water					
Blank (24L0243-BLK1)		Prepared: 12/06/24 19:01			Analyzed: 12/06/24 19:01							
SM 2540 C												
Total Dissolved Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Reference (24L0243-SRM1)		Prepared: 12/06/24 19:01			Analyzed: 12/06/24 19:01							
SM 2540 C												
Total Dissolved Solids	2440	---		mg/L	1	2410		101	81 - 119%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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A4K1687 - 12 20 24 1640

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24K0970 - Method Prep: Aq							Water					
Blank (24K0970-BLK1)		Prepared: 11/27/24 08:51 Analyzed: 11/27/24 10:04										
SM 2320 B												
Total Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
Bicarbonate Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
Carbonate Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
Hydroxide Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
LCS (24K0970-BS1)		Prepared: 11/27/24 08:51 Analyzed: 11/27/24 10:11										
SM 2320 B												
Total Alkalinity	107	---	20.0	mg	1	100	---	107	90 - 115%	---	---	
				CaCO3/L								

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4K1687 - 12 20 24 1640****SAMPLE PREPARATION INFORMATION****Diesel and/or Oil Hydrocarbons by NWTPH-Dx****Prep: EPA 3510C (Fuels/Acid Ext.)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24L0001							
A4K1687-03	Water	NWTPH-Dx LL	11/25/24 16:04	12/02/24 05:00	1050mL/2mL	1000mL/2mL	0.95
A4K1687-04	Water	NWTPH-Dx LL	11/25/24 11:53	12/02/24 05:00	1060mL/2mL	1000mL/2mL	0.94
Batch: 24L0164							
A4K1687-01	Water	NWTPH-Dx LL	11/25/24 12:15	12/05/24 11:07	1050mL/2mL	1000mL/2mL	0.95
A4K1687-02	Water	NWTPH-Dx LL	11/25/24 14:06	12/05/24 11:07	1050mL/2mL	1000mL/2mL	0.95
A4K1687-05	Water	NWTPH-Dx LL	11/25/24 13:50	12/05/24 11:07	1010mL/2mL	1000mL/2mL	0.99
A4K1687-06	Water	NWTPH-Dx LL	11/25/24 16:23	12/05/24 11:07	990mL/2mL	1000mL/2mL	1.01
A4K1687-07	Water	NWTPH-Dx LL	11/26/24 09:47	12/05/24 11:07	1020mL/2mL	1000mL/2mL	0.98
A4K1687-08	Water	NWTPH-Dx LL	11/26/24 11:30	12/05/24 11:07	1010mL/2mL	1000mL/2mL	0.99

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24K0963							
A4K1687-01	Water	NWTPH-Gx (MS)	11/25/24 12:15	11/27/24 10:20	5mL/5mL	5mL/5mL	1.00
A4K1687-02	Water	NWTPH-Gx (MS)	11/25/24 14:06	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00
A4K1687-03	Water	NWTPH-Gx (MS)	11/25/24 16:04	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00
A4K1687-04	Water	NWTPH-Gx (MS)	11/25/24 11:53	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00
A4K1687-05	Water	NWTPH-Gx (MS)	11/25/24 13:50	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00
A4K1687-06	Water	NWTPH-Gx (MS)	11/25/24 16:23	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00
A4K1687-07	Water	NWTPH-Gx (MS)	11/26/24 09:47	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00
A4K1687-08	Water	NWTPH-Gx (MS)	11/26/24 11:30	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00

BTEX Compounds by EPA 8260D**Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24K0963							
A4K1687-01	Water	EPA 8260D	11/25/24 12:15	11/27/24 10:20	5mL/5mL	5mL/5mL	1.00
A4K1687-02	Water	EPA 8260D	11/25/24 14:06	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00
A4K1687-03	Water	EPA 8260D	11/25/24 16:04	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00
A4K1687-04	Water	EPA 8260D	11/25/24 11:53	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00
A4K1687-05	Water	EPA 8260D	11/25/24 13:50	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00
A4K1687-06	Water	EPA 8260D	11/25/24 16:23	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00
A4K1687-07	Water	EPA 8260D	11/26/24 09:47	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4K1687 - 12 20 24 1640**

SAMPLE PREPARATION INFORMATION

BTEX Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A4K1687-08	Water	EPA 8260D	11/26/24 11:30	11/27/24 11:20	5mL/5mL	5mL/5mL	1.00

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24K0977							
A4K1687-01	Water	EPA 8270E LVI	11/25/24 12:15	11/27/24 11:24	125.67mL/5mL	125mL/5mL	1.00
A4K1687-02	Water	EPA 8270E LVI	11/25/24 14:06	11/27/24 11:24	124.36mL/5mL	125mL/5mL	1.01
A4K1687-03	Water	EPA 8270E LVI	11/25/24 16:04	11/27/24 11:24	122.93mL/5mL	125mL/5mL	1.02
A4K1687-04	Water	EPA 8270E LVI	11/25/24 11:53	11/27/24 11:24	121.33mL/5mL	125mL/5mL	1.03
A4K1687-05	Water	EPA 8270E LVI	11/25/24 13:50	11/27/24 11:24	124.35mL/5mL	125mL/5mL	1.01
A4K1687-06	Water	EPA 8270E LVI	11/25/24 16:23	11/27/24 11:24	106.78mL/5mL	125mL/5mL	1.17
A4K1687-07	Water	EPA 8270E LVI	11/26/24 09:47	11/27/24 11:24	111.05mL/5mL	125mL/5mL	1.13
A4K1687-07RE1	Water	EPA 8270E LVI	11/26/24 09:47	11/27/24 11:24	111.05mL/5mL	125mL/5mL	1.13
A4K1687-08	Water	EPA 8270E LVI	11/26/24 11:30	11/27/24 11:24	122.91mL/5mL	125mL/5mL	1.02

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24L0355							
A4K1687-01	Water	EPA 6020B	11/25/24 12:15	12/10/24 13:01	45mL/50mL	45mL/50mL	1.00
A4K1687-02	Water	EPA 6020B	11/25/24 14:06	12/10/24 13:01	45mL/50mL	45mL/50mL	1.00
A4K1687-03	Water	EPA 6020B	11/25/24 16:04	12/10/24 13:01	45mL/50mL	45mL/50mL	1.00
A4K1687-04	Water	EPA 6020B	11/25/24 11:53	12/10/24 13:01	45mL/50mL	45mL/50mL	1.00
A4K1687-05	Water	EPA 6020B	11/25/24 13:50	12/10/24 13:01	45mL/50mL	45mL/50mL	1.00
A4K1687-06	Water	EPA 6020B	11/25/24 16:23	12/10/24 13:01	45mL/50mL	45mL/50mL	1.00
A4K1687-07	Water	EPA 6020B	11/26/24 09:47	12/10/24 13:01	45mL/50mL	45mL/50mL	1.00
A4K1687-08	Water	EPA 6020B	11/26/24 11:30	12/10/24 13:01	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24L0388							
A4K1687-01	Water	EPA 6020B (Diss)	11/25/24 12:15	12/11/24 09:42	45mL/50mL	45mL/50mL	1.00

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A4K1687 - 12 20 24 1640**

SAMPLE PREPARATION INFORMATION

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A4K1687-02	Water	EPA 6020B (Diss)	11/25/24 14:06	12/11/24 09:42	45mL/50mL	45mL/50mL	1.00
A4K1687-03	Water	EPA 6020B (Diss)	11/25/24 16:04	12/11/24 09:42	45mL/50mL	45mL/50mL	1.00
A4K1687-04	Water	EPA 6020B (Diss)	11/25/24 11:53	12/11/24 09:42	45mL/50mL	45mL/50mL	1.00
A4K1687-05	Water	EPA 6020B (Diss)	11/25/24 13:50	12/11/24 09:42	45mL/50mL	45mL/50mL	1.00
A4K1687-06	Water	EPA 6020B (Diss)	11/25/24 16:23	12/11/24 09:42	45mL/50mL	45mL/50mL	1.00
A4K1687-07	Water	EPA 6020B (Diss)	11/26/24 09:47	12/11/24 09:42	45mL/50mL	45mL/50mL	1.00
A4K1687-08	Water	EPA 6020B (Diss)	11/26/24 11:30	12/11/24 09:42	45mL/50mL	45mL/50mL	1.00
Batch: 24L0712							
A4K1687-06RE2	Water	EPA 6020B (Diss)	11/25/24 16:23	12/19/24 12:52	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24K0960							
A4K1687-01	Water	EPA 300.0	11/25/24 12:15	11/27/24 07:00	5mL/5mL	5mL/5mL	1.00
A4K1687-02	Water	EPA 300.0	11/25/24 14:06	11/27/24 07:00	5mL/5mL	5mL/5mL	1.00
A4K1687-03	Water	EPA 300.0	11/25/24 16:04	11/27/24 07:00	5mL/5mL	5mL/5mL	1.00
A4K1687-04	Water	EPA 300.0	11/25/24 11:53	11/27/24 07:00	5mL/5mL	5mL/5mL	1.00
A4K1687-05	Water	EPA 300.0	11/25/24 13:50	11/27/24 07:00	5mL/5mL	5mL/5mL	1.00
A4K1687-06	Water	EPA 300.0	11/25/24 16:23	11/27/24 07:00	5mL/5mL	5mL/5mL	1.00
A4K1687-07	Water	EPA 300.0	11/26/24 09:47	11/27/24 07:00	5mL/5mL	5mL/5mL	1.00
A4K1687-08	Water	EPA 300.0	11/26/24 11:30	11/27/24 07:00	5mL/5mL	5mL/5mL	1.00
Batch: 24L0021							
A4K1687-03RE1	Water	EPA 300.0	11/25/24 16:04	12/02/24 10:26	5mL/5mL	5mL/5mL	1.00
A4K1687-04RE1	Water	EPA 300.0	11/25/24 11:53	12/02/24 10:26	5mL/5mL	5mL/5mL	1.00

Solid and Moisture Determinations

Prep: Total Dissolved Solids - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24K0945							
A4K1687-01	Water	SM 2540 C	11/25/24 12:15	11/27/24 18:25	100mL	100mL	1.00
A4K1687-02	Water	SM 2540 C	11/25/24 14:06	11/27/24 18:25	100mL	100mL	1.00
A4K1687-03	Water	SM 2540 C	11/25/24 16:04	11/27/24 18:25	10mL	100mL	10.00
A4K1687-04	Water	SM 2540 C	11/25/24 11:53	11/27/24 18:25	50mL	100mL	2.00

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

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13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

SAMPLE PREPARATION INFORMATION

Solid and Moisture Determinations

Prep: Total Dissolved Solids - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A4K1687-05	Water	SM 2540 C	11/25/24 13:50	11/27/24 18:25	25mL	100mL	4.00
A4K1687-06	Water	SM 2540 C	11/25/24 16:23	11/27/24 18:25	50mL	100mL	2.00
A4K1687-07	Water	SM 2540 C	11/26/24 09:47	11/27/24 18:25	50mL	100mL	2.00
A4K1687-08	Water	SM 2540 C	11/26/24 11:30	11/27/24 18:25	50mL	100mL	2.00
Batch: 24L0243							
A4K1687-04RE1	Water	SM 2540 C	11/25/24 11:53	12/06/24 19:01	10mL	100mL	10.00

Prep: Total Suspended Solids - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24K0979							
A4K1687-01	Water	SM 2540 D	11/25/24 12:15	11/27/24 16:25	100mL	100mL	1.00
A4K1687-02	Water	SM 2540 D	11/25/24 14:06	11/27/24 16:25	100mL	100mL	1.00
A4K1687-03	Water	SM 2540 D	11/25/24 16:04	11/27/24 16:25	100mL	100mL	1.00
A4K1687-04	Water	SM 2540 D	11/25/24 11:53	11/27/24 16:25	100mL	100mL	1.00
A4K1687-05	Water	SM 2540 D	11/25/24 13:50	11/27/24 16:25	100mL	100mL	1.00
A4K1687-06	Water	SM 2540 D	11/25/24 16:23	11/27/24 16:25	100mL	100mL	1.00
A4K1687-07	Water	SM 2540 D	11/26/24 09:47	11/27/24 16:25	100mL	100mL	1.00
A4K1687-08	Water	SM 2540 D	11/26/24 11:30	11/27/24 16:25	100mL	100mL	1.00

Conventional Chemistry Parameters

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24K0970							
A4K1687-01	Water	SM 2320 B	11/25/24 12:15	11/27/24 08:51	60mL/60mL	60mL/60mL	NA
A4K1687-02	Water	SM 2320 B	11/25/24 14:06	11/27/24 08:51	60mL/60mL	60mL/60mL	NA
A4K1687-03	Water	SM 2320 B	11/25/24 16:04	11/27/24 08:51	60mL/60mL	60mL/60mL	NA
A4K1687-04	Water	SM 2320 B	11/25/24 11:53	11/27/24 08:51	60mL/60mL	60mL/60mL	NA
A4K1687-05	Water	SM 2320 B	11/25/24 13:50	11/27/24 08:51	60mL/60mL	60mL/60mL	NA
A4K1687-06	Water	SM 2320 B	11/25/24 16:23	11/27/24 08:51	60mL/60mL	60mL/60mL	NA
A4K1687-07	Water	SM 2320 B	11/26/24 09:47	11/27/24 08:51	60mL/60mL	60mL/60mL	NA
A4K1687-08	Water	SM 2320 B	11/26/24 11:30	11/27/24 08:51	60mL/60mL	60mL/60mL	NA

Lab Filtration

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ANALYTICAL REPORT

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Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

SAMPLE PREPARATION INFORMATION

Lab Filtration

Prep: Lab Filtration

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24L0538</u>							
A4K1687-06	Water	NA	11/25/24 16:23	12/14/24 13:53	150mL/150mL		NA

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Bellevue, WA 98006

Project: **Union Station**

Project Number: **2644-001**

Project Manager: **James Welles**

Report ID:

A4K1687 - 12 20 24 1640

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

F-03	The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
FILT1	Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
FILT3	This is a laboratory filtration blank, associated with filtration batch 24L0538. See Prep page of report for associated samples.
H-01	Analyzed outside the recommended holding time.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
M-04	Due to matrix interference, this analyte cannot be accurately quantified. The reported result may contain a high bias.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
RR-2	Not Reported - Needs Dilution. Sample will be Rerun.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
TSS	Dried residue was less than 2.5mg as specified in the method. Results meet regulatory requirements.
X	See Case Narrative.

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Project: **Union Station**

Project Number: **2644-001**

Project Manager: **James Welles**

Report ID:

A4K1687 - 12 20 24 1640

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported.
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

Apex Laboratories

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ANALYTICAL REPORT

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503-718-2323

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Bellevue, WA 98006

Project: **Union Station**

Project Number: **2644-001**

Project Manager: **James Welles**

Report ID:

A4K1687 - 12 20 24 1640

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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Project Manager: **James Welles**

Report ID:

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Decanted Samples:

Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight correction as for normal analyses.

In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

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ANALYTICAL REPORT

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Project: **Union Station**

Project Number: **2644-001**

Project Manager: **James Welles**

Report ID:

A4K1687 - 12 20 24 1640

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
--------	----------	--------	---------	--------	---------------

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

APEX LABS										CHAIN OF CUSTODY									
6700 SW Sandburg St, Tigard, OR 97223 Ph: 503-718-2323										Lab # <u>A4K1687</u> COC # <u>1 of 1</u>									
Company: <u>Farallon</u>					Project Mgr: <u>James Welles</u>					Project Name: <u>Union Station</u>					Project #: <u>2644-001</u>				
Address: <u>13555 SE 36th St, Bellevue WA</u>					Phone: _____					Email: _____					PO # _____				
Sampled by: <u>D. Blackwell/B. L. Velez</u>					DATE: _____					TIME: _____					MATRIX: _____				
Site Location: _____					# OF CONTAINERS: _____					NWT-PH-HCID: _____					NWT-PH-DX: _____				
State: _____					NWT-PH-GX: <u>NES6</u>					8260 RBDM VOCs: _____					8260 Halo VOCs: _____				
County: _____					8260 VOCs Full List: _____					8270 SIM PAHs: _____					8270 Semi-Vols Full List: _____				
SAMPLE ID					8081 Pesticides: _____					8082 PCBs: _____					8081 Pesticides: _____				
B-4R-20241125					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____				
MW-104-20241125					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____				
MW-105-20241125					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____				
MW-108R-20241125					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____				
MW-102R-20241125					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____				
B-6R-20241125					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____				
MW-107R-20241126					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____				
MW-101R-20241126					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____					8270 SEMI-VOLS FULL LIST: _____				
SPECIAL INSTRUCTIONS: <u>For all samples: Arsenic by 2500B, Nitrate by sulfate 300 series</u>										RECEIVED BY: Signature: _____ Date: <u>26/11/24</u> Printed Name: _____ Time: _____ Company: _____									
TAT Requested (circle): <u>Standard</u>										RECEIVED BY: Signature: _____ Date: <u>26/11/24</u> Printed Name: _____ Time: _____ Company: _____									
SAMPLES ARE HELD FOR 30 DAYS										RECEIVED BY: Signature: _____ Date: <u>26/11/24</u> Printed Name: _____ Time: _____ Company: _____									
RELINQUISHED BY: Signature: _____ Date: <u>11/26/24</u> Printed Name: _____ Time: <u>1330</u> Company: <u>D. Blackwell</u>										RELINQUISHED BY: Signature: _____ Date: <u>26/11/24</u> Printed Name: _____ Time: <u>17:53</u> Company: <u>Kutarna, Mariana</u>									
Company: <u>Farallon</u>										Company: <u>Apex</u>									

Form Y-002 R-00

Apex Laboratories

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Cameron O'Brien, Project Manager

Page 52 of 53

Page 52 of 60



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Bellevue

13555 SE 36th Street, Suite 320

Bellevue, WA 98006

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A4K1687 - 12 20 24 1640

APEX LABS COOLER RECEIPT FORM

Client: Farallon Element WO#: A4K1687

Project/Project #: Union Station 12644-001

Delivery Info:

Date/time received: 11/26/24 @ 17:53 By: JKM

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen X Other

From USDA Regulated Origin? Yes No X

Cooler Inspection Date/time inspected: 11/26/24 @ 17:55 By: JKM

Chain of Custody included? Yes X No

Signed/dated by client? Yes X No

Contains USDA Reg. Soils? Yes X No Y Unsure (email RegSoils)

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	4.2	3.6	2.5	3.2			
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	N						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 11/26/24 @ 18:18 By: JKM

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No X

Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes X No NA

Comments: 1/6 for MWI-105-20241125 has HS. 3/6 for MWI-108R-20241125 has HS. 1/6 for B-6R-20241125

Water samples: pH checked: Yes X No NA pH appropriate? Yes X No NA pH ID: A231132 has HS

Comments: 2 (1L HCL Amber) pH @ 7 for MWI-105-20241125

2 (250mL HNO3 poly) and 2 (1L HCL Amber) pH @ 7 for MWI-108R-20241125

Labeled by: JKM

Witness: JKM

Cooler Inspected by: JKM

Form Y-003 R-02

Apex Laboratories

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Cameron O'Brien, Project Manager

Page 53 of 53

Page 53 of 60



December 17, 2024

Apex Laboratories
ATTN: Cameron O'Brien
6700 S.W. Sandburg St.
Tigard, OR 97223



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
ASTM D1946, RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

ALASKA CS-LAP 24-002
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: A4K1687
Lab Number: R120303-01/08

Enclosed are results for sample(s) received 12/03/24 by Air Technology Laboratories. Samples were received intact and chilled to 1° C. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink that reads "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER

Apex Laboratories

A4K1687

2 of 7
R120303

R120303-01/08

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Cameron O'Brien

RECEIVING LABORATORY:

Air Technology Laboratories, Inc
18501 E. Gale Ave Suite 130
City of Industry, CA 91748
Phone: (626) 964-4032
Fax: (626) 964-5832

Sample Name: B-4R-20241125 Water Sampled: 11/25/24 12:15 (A4K1687-01)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	12/11/24 17:00	12/09/24 12:15	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

Sample Name: MW-104-20241125 Water Sampled: 11/25/24 14:06 (A4K1687-02)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	12/11/24 17:00	12/09/24 14:06	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

Sample Name: MW-105-20241125 Water Sampled: 11/25/24 16:04 (A4K1687-03)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	12/11/24 17:00	12/09/24 16:04	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

Standard TAT

10c
+10

Released By  Date 12/2/24
Received By  Date 12/3/24 11:50

Released By  Date 12/3/24 11:50
Received By  Date 12/3/24 11:50

SUBCONTRACT ORDER

3 of 7
R120303

Apex Laboratories

R120303-01/08

APB 11/26/24 A4K1687

04 Sample Name: MW-108R-20241125 Water Sampled: 11/25/24 11:53 (A4K1687-04)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	12/11/24 17:00	12/09/24 11:53	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

05 Sample Name: MW-102R-20241125 Water Sampled: 11/25/24 13:50 (A4K1687-05)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	12/11/24 17:00	12/09/24 13:50	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

06 Sample Name: B-6R-20241125 Water Sampled: 11/25/24 16:23 (A4K1687-06)


Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	12/11/24 17:00	12/09/24 16:23	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			


07 Sample Name: MW-107R-20241126 Water Sampled: 11/26/24 09:47 (A4K1687-07)


Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	12/11/24 17:00	12/10/24 09:47	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			


Standard TAT

10
H0

Released By  Date 12/2/24

Received By  Date 12/3/24 11:50

Released By  Date 12/3/24 11:50

Received By  Date 12/3/24 11:50

SUBCONTRACT ORDER

4 of 7
R120303

Apex Laboratories

AP Lab A4K1687

R120303-01/08

00 Sample Name: MW-101R-20241126 Water Sampled: 11/26/24 11:30 (A4K1687-08)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	12/11/24 17:00	12/10/24 11:30	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

Standard TAT

*1°C
H0*

<i>[Signature]</i>	<i>12/2/24</i>	UPS (Shipper)	
Released By	Date	Received By	Date
UPS (Shipper)	<i>12/3/24 11:50</i>	<i>[Signature]</i>	<i>12/3/24 11:50</i>
Released By	Date	Received By	Date

Client: Apex Laboratories
Attn: Cameron O'Brien
Project Name: NA
Project No.: A4K1687
Date Received: 12/03/24
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	R120303-01		R120303-02		R120303-03		R120303-04	
Client Sample I.D.:	B-4R-20241125 (A4K1687-01)		MW-104-20241125 (A4K1687-02)		MW-105-20241125 (A4K1687-03)		MW-108R-20241125 (A4K1687-04)	
Date/Time Sampled:	11/25/24 12:15		11/25/24 14:06		11/25/24 16:04		11/25/24 11:53	
Date/Time Analyzed:	12/4/24 9:40		12/4/24 9:52		12/4/24 10:04		12/4/24 10:23	
QC Batch No.:	241204GC8A1		241204GC8A1		241204GC8A1		241204GC8A1	
Analyst Initials:	KD		KD		KD		KD	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Methane	4,200	1.0	8,700	1.0	7,900	1.0	5,000	1.0

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____


Mark Johnson
Operations Manager

Date

12/16/24

The cover letter is an integral part of this analytical report



Client: Apex Laboratories
Attn: Cameron O'Brien
Project Name: NA
Project No.: A4K1687
Date Received: 12/03/24
Matrix: Water
Reporting Units: ug/L


RSK175

Lab No.:	R120303-05		R120303-06		R120303-07		R120303-08	
Client Sample I.D.:	MW-102R-20241125 (A4K1687-05)		B-6R-20241125 (A4K1687-06)		MW-107R-20241126 (A4K1687-07)		MW-101R-20241126 (A4K1687-08)	
Date/Time Sampled:	11/25/24 13:50		11/25/24 16:23		11/26/24 9:47		11/26/24 11:30	
Date/Time Analyzed:	12/4/24 10:47		12/4/24 10:59		12/4/24 11:11		12/4/24 11:23	
QC Batch No.:	241204GC8A1		241204GC8A1		241204GC8A1		241204GC8A1	
Analyst Initials:	KD		KD		KD		KD	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Methane	13,000	1.0	11,000	1.0	15,000	1.0	7,900	1.0

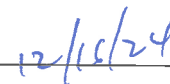
ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____


Mark Johnson
Operations Manager

Date _____


12/15/24

The cover letter is an integral part of this analytical report



QC Batch No: 241204GC8A1

Matrix: Water

Reporting Units: ug/L


RSK 175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	12/4/24 9:28			12/4/24 8:47		12/4/24 9:02					
Analyst Initials:	KD			KD		KD					
Dilution Factor:	1.0			1.0		1.0					
								Limits			
ANALYTE	Result ug/L	RL ug/L	SPIKE AMT. ug/L	Result ug/L	% Rec.	Result ug/L	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Methane	ND	1.0	650	668	102	665	102	0.4	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____


Mark Johnson
Operations Manager

Date _____

12/16/24

The cover letter is an integral part of this analytical report





ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Wednesday, March 26, 2025

James Welles

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

RE: A5B1611 - Union Station - 2644-001

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A5B1611, which was received by the laboratory on 2/25/2025 at 3:17:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: cobrien@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information					
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>					
(See Cooler Receipt Form for details)					
Cooler #1	2.8	degC	Cooler #2	4.6	degC
Cooler #3	2.4	degC	Cooler #4	2.1	degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Cameron O'Brien, Project Manager

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-102R-20250224	A5B1611-01	Water	02/24/25 11:44	02/25/25 15:17
MW-105-20250224	A5B1611-02	Water	02/24/25 14:03	02/25/25 15:17
MW-104-20250224	A5B1611-03	Water	02/24/25 16:00	02/25/25 15:17
MW-108R-20250224	A5B1611-04	Water	02/24/25 11:15	02/25/25 15:17
MW-107R-20250224	A5B1611-05	Water	02/24/25 12:48	02/25/25 15:17
MW-101R-20250224	A5B1611-06	Water	02/24/25 14:05	02/25/25 15:17
B-6R-20250224	A5B1611-07	Water	02/24/25 16:15	02/25/25 15:17
B-4R-20250225	A5B1611-08	Water	02/25/25 10:17	02/25/25 15:17

Apex Laboratories

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Cameron O'Brien, Project Manager

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337****ANALYTICAL CASE NARRATIVE**Work Order: **A5B1611****Apex Laboratories**Subcontract

This report is complete only if it includes the attached subcontract laboratory report from Air Technology Laboratories .

Cameron O'Brien
Project Manager

Amended Final Report #1 - This report supersedes all previous reports.

NWTPH-Gx: Amended Data

This report contains modified data for NWTPH-Gx for the following samples:

"MW-105-20250224" (Apex Labs ID: A5B1611-02)

"MW-107R-20250224" (Apex Labs ID: A5B1611-05)

"MW-101R-20250224" (Apex Labs ID: A5B1611-06)

After further review of data, F-03 flags have been applied to NWTPH-Gx results due to presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.

The affected data is flagged in the report with the AMEND qualifier .

Cameron O'Brien
Project Manager
3/6/25

Amended Report Revision 1

This report supersedes all previous reports.

The Final Report has been amended to include lab filtered As (Arsenic) - 6020B - Dissolved results for sample: B-6R-20250224 (Apex Lab WO A5B1611-07).

Cameron O'Brien
Project Manager
3/13/25

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20250224 (A5B1611-01)				Matrix: Water		Batch: 25C0104		
Diesel	108	---	77.7	ug/L	1	03/04/25 21:48	NWTPH-Dx LL	F-13
Oil	ND	---	155	ug/L	1	03/04/25 21:48	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 62 %		Limits: 50-150 %	1	03/04/25 21:48	NWTPH-Dx LL	
MW-105-20250224 (A5B1611-02)				Matrix: Water		Batch: 25C0005		
Diesel	385	---	76.2	ug/L	1	03/04/25 03:44	NWTPH-Dx LL	F-13
Oil	ND	---	152	ug/L	1	03/04/25 03:44	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 91 %		Limits: 50-150 %	1	03/04/25 03:44	NWTPH-Dx LL	
MW-104-20250224 (A5B1611-03)				Matrix: Water		Batch: 25C0104		
Diesel	117	---	80.0	ug/L	1	03/04/25 22:10	NWTPH-Dx LL	F-13
Oil	776	---	160	ug/L	1	03/04/25 22:10	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %	1	03/04/25 22:10	NWTPH-Dx LL	
MW-108R-20250224 (A5B1611-04)				Matrix: Water		Batch: 25C0005		
Diesel	ND	---	80.0	ug/L	1	03/04/25 04:08	NWTPH-Dx LL	
Oil	ND	---	160	ug/L	1	03/04/25 04:08	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 91 %		Limits: 50-150 %	1	03/04/25 04:08	NWTPH-Dx LL	
MW-107R-20250224 (A5B1611-05)				Matrix: Water		Batch: 25C0104		
Diesel	550	---	80.0	ug/L	1	03/04/25 22:33	NWTPH-Dx LL	F-13
Oil	ND	---	160	ug/L	1	03/04/25 22:33	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 70 %		Limits: 50-150 %	1	03/04/25 22:33	NWTPH-Dx LL	
MW-101R-20250224 (A5B1611-06)				Matrix: Water		Batch: 25C0104		
Diesel	1680	---	81.6	ug/L	1	03/04/25 22:55	NWTPH-Dx LL	F-13
Oil	ND	---	163	ug/L	1	03/04/25 22:55	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 75 %		Limits: 50-150 %	1	03/04/25 22:55	NWTPH-Dx LL	
B-6R-20250224 (A5B1611-07)				Matrix: Water		Batch: 25C0104		
Diesel	83.6	---	80.8	ug/L	1	03/04/25 23:18	NWTPH-Dx LL	F-13
Oil	ND	---	162	ug/L	1	03/04/25 23:18	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	03/04/25 23:18	NWTPH-Dx LL	

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ANALYTICAL REPORT

AMENDED REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20250225 (A5B1611-08)				Matrix: Water		Batch: 25C0104		
Diesel	184	---	80.0	ug/L	1	03/04/25 23:40	NWTPH-Dx LL	F-13
Oil	ND	---	160	ug/L	1	03/04/25 23:40	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %	1	03/04/25 23:40	NWTPH-Dx LL	

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Report ID:

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20250224 (A5B1611-01)				Matrix: Water		Batch: 25B0922		
Gasoline Range Organics	ND	---	100	ug/L	1	02/28/25 15:42	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 99 %	Limits: 50-150 %	1	02/28/25 15:42	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		104 %	50-150 %	1	02/28/25 15:42	NWTPH-Gx (MS)		
MW-105-20250224 (A5B1611-02)				Matrix: Water		Batch: 25B0922		AMEND
Gasoline Range Organics	940	---	100	ug/L	1	02/28/25 18:20	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 93 %	Limits: 50-150 %	1	02/28/25 18:20	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		93 %	50-150 %	1	02/28/25 18:20	NWTPH-Gx (MS)		
MW-104-20250224 (A5B1611-03)				Matrix: Water		Batch: 25B0922		
Gasoline Range Organics	ND	---	100	ug/L	1	02/28/25 16:04	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 100 %	Limits: 50-150 %	1	02/28/25 16:04	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		105 %	50-150 %	1	02/28/25 16:04	NWTPH-Gx (MS)		
MW-108R-20250224 (A5B1611-04)				Matrix: Water		Batch: 25B0922		
Gasoline Range Organics	ND	---	100	ug/L	1	02/28/25 16:27	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 101 %	Limits: 50-150 %	1	02/28/25 16:27	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		104 %	50-150 %	1	02/28/25 16:27	NWTPH-Gx (MS)		
MW-107R-20250224 (A5B1611-05)				Matrix: Water		Batch: 25B0922		AMEND
Gasoline Range Organics	529	---	100	ug/L	1	02/28/25 16:50	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 104 %	Limits: 50-150 %	1	02/28/25 16:50	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		105 %	50-150 %	1	02/28/25 16:50	NWTPH-Gx (MS)		
MW-101R-20250224 (A5B1611-06)				Matrix: Water		Batch: 25B0922		AMEND
Gasoline Range Organics	3900	---	100	ug/L	1	02/28/25 17:13	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 101 %	Limits: 50-150 %	1	02/28/25 17:13	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		96 %	50-150 %	1	02/28/25 17:13	NWTPH-Gx (MS)		
B-6R-20250224 (A5B1611-07)				Matrix: Water		Batch: 25B0922		
Gasoline Range Organics	ND	---	100	ug/L	1	02/28/25 17:35	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 95 %	Limits: 50-150 %	1	02/28/25 17:35	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		100 %	50-150 %	1	02/28/25 17:35	NWTPH-Gx (MS)		

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Seattle, WA 98101

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20250225 (A5B1611-08)				Matrix: Water		Batch: 25B0922		
Gasoline Range Organics	121	---	100	ug/L	1	02/28/25 17:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	96 %	Limits: 50-150 %	1	02/28/25 17:58	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			101 %	50-150 %	1	02/28/25 17:58	NWTPH-Gx (MS)	

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ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20250224 (A5B1611-01)		Matrix: Water		Batch: 25B0922				
Benzene	ND	0.100	0.200	ug/L	1	02/28/25 15:42	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	02/28/25 15:42	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/28/25 15:42	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	02/28/25 15:42	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	02/28/25 15:42	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	110 %	Limits:	80-120 %	1	02/28/25 15:42	EPA 8260D
Toluene-d8 (Surr)			102 %		80-120 %	1	02/28/25 15:42	EPA 8260D
4-Bromofluorobenzene (Surr)			99 %		80-120 %	1	02/28/25 15:42	EPA 8260D
MW-105-20250224 (A5B1611-02)		Matrix: Water		Batch: 25B0922				
Benzene	169	0.100	0.200	ug/L	1	02/28/25 18:20	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	02/28/25 18:20	EPA 8260D	
Ethylbenzene	1.14	0.250	0.500	ug/L	1	02/28/25 18:20	EPA 8260D	
m,p-Xylene	0.930	0.500	1.00	ug/L	1	02/28/25 18:20	EPA 8260D	J
o-Xylene	0.370	0.250	0.500	ug/L	1	02/28/25 18:20	EPA 8260D	J
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	100 %	Limits:	80-120 %	1	02/28/25 18:20	EPA 8260D
Toluene-d8 (Surr)			99 %		80-120 %	1	02/28/25 18:20	EPA 8260D
4-Bromofluorobenzene (Surr)			99 %		80-120 %	1	02/28/25 18:20	EPA 8260D
MW-104-20250224 (A5B1611-03)		Matrix: Water		Batch: 25B0922				
Benzene	ND	0.100	0.200	ug/L	1	02/28/25 16:04	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	02/28/25 16:04	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/28/25 16:04	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	02/28/25 16:04	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	02/28/25 16:04	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	110 %	Limits:	80-120 %	1	02/28/25 16:04	EPA 8260D
Toluene-d8 (Surr)			101 %		80-120 %	1	02/28/25 16:04	EPA 8260D
4-Bromofluorobenzene (Surr)			96 %		80-120 %	1	02/28/25 16:04	EPA 8260D
MW-108R-20250224 (A5B1611-04)		Matrix: Water		Batch: 25B0922				
Benzene	ND	0.100	0.200	ug/L	1	02/28/25 16:27	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	02/28/25 16:27	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/28/25 16:27	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	02/28/25 16:27	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	02/28/25 16:27	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	109 %	Limits:	80-120 %	1	02/28/25 16:27	EPA 8260D

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Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20250224 (A5B1611-04)				Matrix: Water		Batch: 25B0922		
Toluene-d8 (Surr)			99 %	80-120 %	1	02/28/25 16:27	EPA 8260D	
4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	02/28/25 16:27	EPA 8260D	
MW-107R-20250224 (A5B1611-05)				Matrix: Water		Batch: 25B0922		
Benzene	0.490	0.100	0.200	ug/L	1	02/28/25 16:50	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	02/28/25 16:50	EPA 8260D	
Ethylbenzene	0.710	0.250	0.500	ug/L	1	02/28/25 16:50	EPA 8260D	
m,p-Xylene	0.630	0.500	1.00	ug/L	1	02/28/25 16:50	EPA 8260D	J
o-Xylene	0.410	0.250	0.500	ug/L	1	02/28/25 16:50	EPA 8260D	J
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	112 %	Limits: 80-120 %	1	02/28/25 16:50	EPA 8260D	
Toluene-d8 (Surr)			102 %	80-120 %	1	02/28/25 16:50	EPA 8260D	
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	02/28/25 16:50	EPA 8260D	
MW-101R-20250224 (A5B1611-06)				Matrix: Water		Batch: 25B0922		
Benzene	48.8	0.100	0.200	ug/L	1	02/28/25 17:13	EPA 8260D	
Toluene	0.610	0.500	1.00	ug/L	1	02/28/25 17:13	EPA 8260D	J
Ethylbenzene	55.8	0.250	0.500	ug/L	1	02/28/25 17:13	EPA 8260D	
m,p-Xylene	4.64	0.500	1.00	ug/L	1	02/28/25 17:13	EPA 8260D	
o-Xylene	4.61	0.250	0.500	ug/L	1	02/28/25 17:13	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits: 80-120 %	1	02/28/25 17:13	EPA 8260D	
Toluene-d8 (Surr)			102 %	80-120 %	1	02/28/25 17:13	EPA 8260D	
4-Bromofluorobenzene (Surr)			95 %	80-120 %	1	02/28/25 17:13	EPA 8260D	
B-6R-20250224 (A5B1611-07)				Matrix: Water		Batch: 25B0922		
Benzene	ND	0.100	0.200	ug/L	1	02/28/25 17:35	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	02/28/25 17:35	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/28/25 17:35	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	02/28/25 17:35	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	02/28/25 17:35	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	106 %	Limits: 80-120 %	1	02/28/25 17:35	EPA 8260D	
Toluene-d8 (Surr)			100 %	80-120 %	1	02/28/25 17:35	EPA 8260D	
4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	02/28/25 17:35	EPA 8260D	
B-4R-20250225 (A5B1611-08)				Matrix: Water		Batch: 25B0922		
Benzene	ND	0.100	0.200	ug/L	1	02/28/25 17:58	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	02/28/25 17:58	EPA 8260D	

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Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20250225 (A5B1611-08)				Matrix: Water		Batch: 25B0922		
Ethylbenzene	0.320	0.250	0.500	ug/L	1	02/28/25 17:58	EPA 8260D	J
m,p-Xylene	ND	0.500	1.00	ug/L	1	02/28/25 17:58	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	02/28/25 17:58	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 108 %		Limits: 80-120 %	1	02/28/25 17:58	EPA 8260D	
Toluene-d8 (Surr)		100 %		80-120 %	1	02/28/25 17:58	EPA 8260D	
4-Bromofluorobenzene (Surr)		99 %		80-120 %	1	02/28/25 17:58	EPA 8260D	

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Project Number: 2644-001

Project Manager: James Welles

Report ID:

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ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20250224 (A5B1611-01)				Matrix: Water		Batch: 25B0809		DCNT
Acenaphthene	11.2	0.0205	0.0409	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Acenaphthylene	0.731	0.0205	0.0409	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Anthracene	0.697	0.0205	0.0409	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Benz(a)anthracene	0.0317	0.0102	0.0205	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.0102	0.0205	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0102	0.0205	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0102	0.0205	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0205	0.0409	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Chrysene	0.0261	0.0102	0.0205	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0102	0.0205	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Fluoranthene	0.473	0.0205	0.0409	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Fluorene	3.13	0.0205	0.0409	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0102	0.0205	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
1-Methylnaphthalene	0.226	0.0409	0.0818	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
2-Methylnaphthalene	0.0414	0.0409	0.0818	ug/L	1	02/26/25 18:23	EPA 8270E LVI	J
Naphthalene	ND	0.0818	0.0818	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Phenanthrene	1.31	0.0409	0.0818	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Pyrene	0.397	0.0205	0.0409	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Dibenzofuran	0.201	0.0205	0.0409	ug/L	1	02/26/25 18:23	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 80 %		Limits: 78-134 %	1	02/26/25 18:23	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		100 %		80-132 %	1	02/26/25 18:23	EPA 8270E LVI	

MW-105-20250224 (A5B1611-02)

Matrix: Water

Batch: 25B0809

DCNT

Acenaphthylene	2.12	0.0213	0.0426	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Anthracene	2.20	0.0213	0.0426	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Benz(a)anthracene	0.505	0.0106	0.0213	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Benzo(a)pyrene	0.278	0.0106	0.0213	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Benzo(b)fluoranthene	0.254	0.0106	0.0213	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Benzo(k)fluoranthene	0.0798	0.0106	0.0213	ug/L	1	02/26/25 18:56	EPA 8270E LVI	M-05
Benzo(g,h,i)perylene	0.0782	0.0213	0.0426	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Chrysene	0.336	0.0106	0.0213	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Dibenz(a,h)anthracene	0.0149	0.0106	0.0213	ug/L	1	02/26/25 18:56	EPA 8270E LVI	J
Fluoranthene	3.28	0.0213	0.0426	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Fluorene	12.6	0.0213	0.0426	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	0.0750	0.0106	0.0213	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
1-Methylnaphthalene	19.7	0.0426	0.0851	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
2-Methylnaphthalene	15.4	0.0426	0.0851	ug/L	1	02/26/25 18:56	EPA 8270E LVI	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-105-20250224 (A5B1611-02)				Matrix: Water		Batch: 25B0809		DCNT
Phenanthrene	4.03	0.0426	0.0851	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Pyrene	3.09	0.0213	0.0426	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Dibenzofuran	5.97	0.0213	0.0426	ug/L	1	02/26/25 18:56	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 80 %		Limits: 78-134 %	1	02/26/25 18:56	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		101 %		80-132 %	1	02/26/25 18:56	EPA 8270E LVI	
MW-105-20250224 (A5B1611-02RE1)				Matrix: Water		Batch: 25B0809		DCNT
Acenaphthene	35.4	0.426	0.851	ug/L	20	02/27/25 11:30	EPA 8270E LVI	
Naphthalene	49.6	0.851	1.70	ug/L	20	02/27/25 11:30	EPA 8270E LVI	B
MW-104-20250224 (A5B1611-03)				Matrix: Water		Batch: 25B0809		DCNT
Acenaphthylene	0.645	0.0188	0.0377	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Anthracene	ND	0.0589	0.0589	ug/L	1	02/26/25 19:28	EPA 8270E LVI	R-02
Benz(a)anthracene	0.0429	0.00942	0.0188	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Benzo(a)pyrene	0.0137	0.00942	0.0188	ug/L	1	02/26/25 19:28	EPA 8270E LVI	J
Benzo(b)fluoranthene	0.0170	0.00942	0.0188	ug/L	1	02/26/25 19:28	EPA 8270E LVI	J
Benzo(k)fluoranthene	ND	0.00942	0.0188	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0188	0.0377	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Chrysene	0.0334	0.00942	0.0188	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00942	0.0188	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Fluoranthene	0.875	0.0188	0.0377	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Fluorene	1.81	0.0188	0.0377	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	0.0108	0.00942	0.0188	ug/L	1	02/26/25 19:28	EPA 8270E LVI	J
1-Methylnaphthalene	0.0551	0.0377	0.0754	ug/L	1	02/26/25 19:28	EPA 8270E LVI	J
2-Methylnaphthalene	ND	0.0377	0.0754	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Naphthalene	ND	0.0754	0.0754	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Phenanthrene	ND	0.0377	0.0754	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Pyrene	0.680	0.0188	0.0377	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Dibenzofuran	0.117	0.0188	0.0377	ug/L	1	02/26/25 19:28	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 81 %		Limits: 78-134 %	1	02/26/25 19:28	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		100 %		80-132 %	1	02/26/25 19:28	EPA 8270E LVI	
MW-104-20250224 (A5B1611-03RE1)				Matrix: Water		Batch: 25B0809		DCNT
Acenaphthene	43.2	0.188	0.377	ug/L	10	02/27/25 12:03	EPA 8270E LVI	
MW-108R-20250224 (A5B1611-04)				Matrix: Water		Batch: 25B0809		DCNT

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Cameron O'Brien, Project Manager



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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-108R-20250224 (A5B1611-04)				Matrix: Water		Batch: 25B0809	DCNT	
Acenaphthene	0.514	0.0159	0.0319	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Acenaphthylene	0.0243	0.0159	0.0319	ug/L	1	02/26/25 20:01	EPA 8270E LVI	J
Anthracene	0.149	0.0159	0.0319	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Benz(a)anthracene	0.00877	0.00797	0.0159	ug/L	1	02/26/25 20:01	EPA 8270E LVI	J
Benzo(a)pyrene	ND	0.00797	0.0159	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00797	0.0159	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00797	0.0159	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0159	0.0319	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Chrysene	ND	0.00797	0.0159	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00797	0.0159	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Fluoranthene	0.0586	0.0159	0.0319	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Fluorene	0.287	0.0159	0.0319	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00797	0.0159	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
1-Methylnaphthalene	0.0367	0.0319	0.0638	ug/L	1	02/26/25 20:01	EPA 8270E LVI	J
2-Methylnaphthalene	ND	0.0319	0.0638	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Naphthalene	ND	0.0319	0.0638	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Phenanthrene	0.400	0.0319	0.0638	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Pyrene	0.0586	0.0159	0.0319	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Dibenzofuran	0.0725	0.0159	0.0319	ug/L	1	02/26/25 20:01	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 82 %		Limits: 78-134 %	1	02/26/25 20:01	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		101 %		80-132 %	1	02/26/25 20:01	EPA 8270E LVI	

MW-107R-20250224 (A5B1611-05)

Matrix: Water

Batch: 25B0809

Acenaphthylene	1.47	0.0160	0.0320	ug/L	1	02/26/25 20:33	EPA 8270E LVI	
Anthracene	1.32	0.0160	0.0320	ug/L	1	02/26/25 20:33	EPA 8270E LVI	
Benz(a)anthracene	0.0152	0.00799	0.0160	ug/L	1	02/26/25 20:33	EPA 8270E LVI	J
Benzo(a)pyrene	ND	0.00799	0.0160	ug/L	1	02/26/25 20:33	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00799	0.0160	ug/L	1	02/26/25 20:33	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00799	0.0160	ug/L	1	02/26/25 20:33	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	02/26/25 20:33	EPA 8270E LVI	
Chrysene	0.0104	0.00799	0.0160	ug/L	1	02/26/25 20:33	EPA 8270E LVI	J
Dibenz(a,h)anthracene	ND	0.00799	0.0160	ug/L	1	02/26/25 20:33	EPA 8270E LVI	
Fluoranthene	0.613	0.0160	0.0320	ug/L	1	02/26/25 20:33	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00799	0.0160	ug/L	1	02/26/25 20:33	EPA 8270E LVI	
Naphthalene	10.7	0.0320	0.0639	ug/L	1	02/26/25 20:33	EPA 8270E LVI	B
Phenanthrene	8.93	0.0320	0.0639	ug/L	1	02/26/25 20:33	EPA 8270E LVI	
Pyrene	0.655	0.0160	0.0320	ug/L	1	02/26/25 20:33	EPA 8270E LVI	

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Cameron O'Brien, Project Manager



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AMENDED REPORT

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503-718-2323

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Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-107R-20250224 (A5B1611-05)				Matrix: Water		Batch: 25B0809		
Dibenzofuran	3.25	0.0160	0.0320	ug/L	1	02/26/25 20:33	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 83 %		Limits: 78-134 %	1	02/26/25 20:33	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		101 %		80-132 %	1	02/26/25 20:33	EPA 8270E LVI	
MW-107R-20250224 (A5B1611-05RE1)				Matrix: Water		Batch: 25B0809		
Acenaphthene	67.3	0.320	0.639	ug/L	20	02/27/25 12:35	EPA 8270E LVI	
Fluorene	19.1	0.320	0.639	ug/L	20	02/27/25 12:35	EPA 8270E LVI	
1-Methylnaphthalene	51.1	0.639	1.28	ug/L	20	02/27/25 12:35	EPA 8270E LVI	
2-Methylnaphthalene	40.1	0.639	1.28	ug/L	20	02/27/25 12:35	EPA 8270E LVI	
MW-101R-20250224 (A5B1611-06)				Matrix: Water		Batch: 25B0809		DCNT
Acenaphthylene	ND	2.50	2.50	ug/L	10	02/26/25 15:41	EPA 8270E LVI	R-02
Anthracene	5.55	0.174	0.348	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Benz(a)anthracene	0.157	0.0871	0.174	ug/L	10	02/26/25 15:41	EPA 8270E LVI	J
Benzo(a)pyrene	ND	0.0871	0.174	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0871	0.174	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0871	0.174	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.174	0.348	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Chrysene	0.0871	0.0871	0.174	ug/L	10	02/26/25 15:41	EPA 8270E LVI	J
Dibenz(a,h)anthracene	ND	0.0871	0.174	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Fluoranthene	3.30	0.174	0.348	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Fluorene	72.9	0.174	0.348	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0871	0.174	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Phenanthrene	49.5	0.348	0.697	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Pyrene	3.13	0.174	0.348	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Dibenzofuran	14.3	0.174	0.348	ug/L	10	02/26/25 15:41	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	10	02/26/25 15:41	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		99 %		80-132 %	10	02/26/25 15:41	EPA 8270E LVI	S-05
MW-101R-20250224 (A5B1611-06RE1)				Matrix: Water		Batch: 25B0809		DCNT
Acenaphthene	230	1.74	3.48	ug/L	100	02/27/25 13:08	EPA 8270E LVI	
1-Methylnaphthalene	256	3.48	6.97	ug/L	100	02/27/25 13:08	EPA 8270E LVI	
2-Methylnaphthalene	274	3.48	6.97	ug/L	100	02/27/25 13:08	EPA 8270E LVI	
Naphthalene	238	3.48	6.97	ug/L	100	02/27/25 13:08	EPA 8270E LVI	B
B-6R-20250224 (A5B1611-07)				Matrix: Water		Batch: 25B0809		

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Cameron O'Brien, Project Manager



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Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-6R-20250224 (A5B1611-07)				Matrix: Water		Batch: 25B0809		
Acenaphthene	0.0687	0.0174	0.0348	ug/L	1	02/27/25 10:58	EPA 8270E LVI	M-04
Acenaphthylene	0.0287	0.0174	0.0348	ug/L	1	02/27/25 10:58	EPA 8270E LVI	J
Anthracene	ND	0.0174	0.0348	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00869	0.0174	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00869	0.0174	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00869	0.0174	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00869	0.0174	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0174	0.0348	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Chrysene	ND	0.00869	0.0174	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00869	0.0174	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Fluoranthene	0.0196	0.0174	0.0348	ug/L	1	02/27/25 10:58	EPA 8270E LVI	J
Fluorene	0.0248	0.0174	0.0348	ug/L	1	02/27/25 10:58	EPA 8270E LVI	J
Indeno(1,2,3-cd)pyrene	ND	0.00869	0.0174	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0348	0.0695	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0348	0.0695	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Naphthalene	ND	0.0695	0.0695	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Phenanthrene	0.0704	0.0348	0.0695	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Pyrene	0.0196	0.0174	0.0348	ug/L	1	02/27/25 10:58	EPA 8270E LVI	J
Dibenzofuran	ND	0.0174	0.0348	ug/L	1	02/27/25 10:58	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 82 %		Limits: 78-134 %	1	02/27/25 10:58	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		102 %		80-132 %	1	02/27/25 10:58	EPA 8270E LVI	

B-4R-20250225 (A5B1611-08)

Matrix: Water

Batch: 25B0809

Acenaphthene	37.3	0.164	0.328	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Acenaphthylene	0.623	0.164	0.328	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Anthracene	0.439	0.164	0.328	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Benz(a)anthracene	ND	0.0820	0.164	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.0820	0.164	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0820	0.164	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.0820	0.164	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.164	0.328	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Chrysene	ND	0.0820	0.164	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0820	0.164	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Fluoranthene	0.262	0.164	0.328	ug/L	10	02/26/25 16:13	EPA 8270E LVI	J
Fluorene	6.95	0.164	0.328	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0820	0.164	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
1-Methylnaphthalene	3.66	0.328	0.656	ug/L	10	02/26/25 16:13	EPA 8270E LVI	

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Cameron O'Brien, Project Manager



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ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20250225 (A5B1611-08)				Matrix: Water		Batch: 25B0809		
2-Methylnaphthalene	ND	0.328	0.656	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Naphthalene	13.2	0.328	0.656	ug/L	10	02/26/25 16:13	EPA 8270E LVI	B
Phenanthrene	0.779	0.328	0.656	ug/L	10	02/26/25 16:13	EPA 8270E LVI	
Pyrene	0.287	0.164	0.328	ug/L	10	02/26/25 16:13	EPA 8270E LVI	J
Dibenzofuran	0.168	0.164	0.328	ug/L	10	02/26/25 16:13	EPA 8270E LVI	J
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	10	02/26/25 16:13	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		108 %		80-132 %	10	02/26/25 16:13	EPA 8270E LVI	S-05

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ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20250224 (A5B1611-01)				Matrix: Water				
Batch: 25C0378								
Arsenic	3.55	---	1.00	ug/L	1	03/11/25 00:29	EPA 6020B	
MW-105-20250224 (A5B1611-02)				Matrix: Water				
Batch: 25C0378								
Arsenic	4.56	---	1.00	ug/L	1	03/11/25 00:35	EPA 6020B	
MW-104-20250224 (A5B1611-03)				Matrix: Water				
Batch: 25C0378								
Arsenic	ND	---	1.00	ug/L	1	03/11/25 00:41	EPA 6020B	
MW-108R-20250224 (A5B1611-04)				Matrix: Water				
Batch: 25C0378								
Arsenic	ND	---	1.00	ug/L	1	03/11/25 00:47	EPA 6020B	
MW-107R-20250224 (A5B1611-05)				Matrix: Water				
Batch: 25C0378								
Arsenic	5.56	---	1.00	ug/L	1	03/11/25 00:53	EPA 6020B	
MW-101R-20250224 (A5B1611-06)				Matrix: Water				
Batch: 25C0378								
Arsenic	4.28	---	1.00	ug/L	1	03/11/25 01:00	EPA 6020B	
B-6R-20250224 (A5B1611-07)				Matrix: Water				
Batch: 25C0378								
Arsenic	45.6	---	1.00	ug/L	1	03/11/25 01:05	EPA 6020B	
B-4R-20250225 (A5B1611-08)				Matrix: Water				
Batch: 25C0378								
Arsenic	ND	---	1.00	ug/L	1	03/11/25 01:10	EPA 6020B	

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Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20250224 (A5B1611-01)				Matrix: Water				
Batch: 25C0364								
Arsenic	3.68	---	1.00	ug/L	1	03/10/25 22:55	EPA 6020B (Diss)	
MW-105-20250224 (A5B1611-02)				Matrix: Water				
Batch: 25C0364								
Arsenic	3.09	---	1.00	ug/L	1	03/10/25 23:00	EPA 6020B (Diss)	
MW-104-20250224 (A5B1611-03)				Matrix: Water				
Batch: 25C0364								
Arsenic	ND	---	1.00	ug/L	1	03/10/25 23:17	EPA 6020B (Diss)	
MW-108R-20250224 (A5B1611-04)				Matrix: Water				
Batch: 25C0364								
Arsenic	ND	---	1.00	ug/L	1	03/10/25 23:23	EPA 6020B (Diss)	
MW-107R-20250224 (A5B1611-05)				Matrix: Water				
Batch: 25C0364								
Arsenic	5.76	---	1.00	ug/L	1	03/10/25 23:29	EPA 6020B (Diss)	
MW-101R-20250224 (A5B1611-06)				Matrix: Water				
Batch: 25C0364								
Arsenic	4.59	---	1.00	ug/L	1	03/10/25 23:35	EPA 6020B (Diss)	
B-6R-20250224 (A5B1611-07)				Matrix: Water				
Batch: 25C0364								
Arsenic	47.3	---	1.00	ug/L	1	03/10/25 23:40	EPA 6020B (Diss)	
B-6R-20250224 (A5B1611-07RE1)				Matrix: Water				
Batch: 25C0967								
Arsenic	18.9	---	1.00	ug/L	1	03/25/25 18:28	EPA 6020B (Diss)	FILT1
B-4R-20250225 (A5B1611-08)				Matrix: Water				
Batch: 25C0364								
Arsenic	ND	---	1.00	ug/L	1	03/10/25 23:46	EPA 6020B (Diss)	

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Seattle, WA 98101

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337**

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20250224 (A5B1611-01)				Matrix: Water				
Batch: 25B0801								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	02/25/25 20:11	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	02/25/25 20:11	EPA 300.0	
MW-105-20250224 (A5B1611-02)				Matrix: Water				
Batch: 25B0801								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	02/25/25 20:54	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	02/25/25 20:54	EPA 300.0	
MW-104-20250224 (A5B1611-03)				Matrix: Water				
Batch: 25B0801								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	02/25/25 21:16	EPA 300.0	
Sulfate	5.47	---	1.00	mg/L	1	02/25/25 21:16	EPA 300.0	
MW-108R-20250224 (A5B1611-04)				Matrix: Water				
Batch: 25B0801								
Nitrate-Nitrogen	ND	---	5.00	mg/L	20	02/25/25 22:20	EPA 300.0	R-04
Sulfate	ND	---	20.0	mg/L	20	02/25/25 22:20	EPA 300.0	R-04
MW-107R-20250224 (A5B1611-05)				Matrix: Water				
Batch: 25B0801								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	02/25/25 23:25	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	02/25/25 23:25	EPA 300.0	
MW-101R-20250224 (A5B1611-06)				Matrix: Water				
Batch: 25B0801								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	02/25/25 23:46	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	02/25/25 23:46	EPA 300.0	
B-6R-20250224 (A5B1611-07)				Matrix: Water				
Batch: 25B0801								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	02/26/25 00:51	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	02/26/25 00:51	EPA 300.0	
B-4R-20250225 (A5B1611-08)				Matrix: Water				
Batch: 25B0801								

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4R-20250225 (A5B1611-08)				Matrix: Water				
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	02/26/25 01:13	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	02/26/25 01:13	EPA 300.0	

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ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20250224 (A5B1611-01)				Matrix: Water				
Batch: 25C0015								
Total Dissolved Solids	2260	---	100	mg/L	1	03/03/25 18:31	SM 2540 C	
Batch: 25C0029								
Total Suspended Solids	44.0	---	5.00	mg/L	1	03/03/25 12:25	SM 2540 D	
MW-105-20250224 (A5B1611-02)				Matrix: Water				
Batch: 25C0015								
Total Dissolved Solids	4800	---	250	mg/L	1	03/03/25 18:31	SM 2540 C	
Batch: 25C0029								
Total Suspended Solids	18.0	---	5.00	mg/L	1	03/03/25 12:25	SM 2540 D	TSS
MW-104-20250224 (A5B1611-03)				Matrix: Water				
Batch: 25B0869								
Total Dissolved Solids	399	---	5.00	mg/L	1	02/27/25 19:17	SM 2540 C	
Batch: 25C0029								
Total Suspended Solids	9.00	---	5.00	mg/L	1	03/03/25 12:25	SM 2540 D	TSS
MW-108R-20250224 (A5B1611-04)				Matrix: Water				
Batch: 25B0869								
Total Dissolved Solids	9560	---	100	mg/L	1	02/27/25 19:17	SM 2540 C	
Batch: 25C0029								
Total Suspended Solids	46.0	---	5.00	mg/L	1	03/03/25 12:25	SM 2540 D	
MW-107R-20250224 (A5B1611-05)				Matrix: Water				
Batch: 25B0869								
Total Dissolved Solids	1120	---	10.0	mg/L	1	02/27/25 19:17	SM 2540 C	
Batch: 25C0029								
Total Suspended Solids	18.0	---	5.00	mg/L	1	03/03/25 12:25	SM 2540 D	TSS
MW-101R-20250224 (A5B1611-06)				Matrix: Water				
Batch: 25B0869								
Total Dissolved Solids	1080	---	10.0	mg/L	1	02/27/25 19:17	SM 2540 C	
Batch: 25C0029								
Total Suspended Solids	63.0	---	5.00	mg/L	1	03/03/25 12:25	SM 2540 D	

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Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-6R-20250224 (A5B1611-07)				Matrix: Water				
Batch: 25B0869								
Total Dissolved Solids	1020	---	10.0	mg/L	1	02/27/25 19:17	SM 2540 C	
Batch: 25C0029								
Total Suspended Solids	15.0	---	5.00	mg/L	1	03/03/25 12:25	SM 2540 D	TSS
B-4R-20250225 (A5B1611-08)				Matrix: Water				
Batch: 25C0015								
Total Dissolved Solids	493	---	5.00	mg/L	1	03/03/25 18:31	SM 2540 C	
Batch: 25C0092								
Total Suspended Solids	ND	---	5.00	mg/L	1	03/04/25 15:45	SM 2540 D	TSS

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Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337**

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-102R-20250224 (A5B1611-01)				Matrix: Water				
Batch: 25B0818								
Total Alkalinity	720	---	20.0	mg CaCO3/L	1	02/26/25 13:19	SM 2320 B	
Bicarbonate Alkalinity	720	---	20.0	mg CaCO3/L	1	02/26/25 13:19	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 13:19	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 13:19	SM 2320 B	
MW-105-20250224 (A5B1611-02)				Matrix: Water				
Batch: 25B0818								
Total Alkalinity	1480	---	20.0	mg CaCO3/L	1	02/26/25 14:23	SM 2320 B	
Bicarbonate Alkalinity	1480	---	20.0	mg CaCO3/L	1	02/26/25 14:23	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 14:23	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 14:23	SM 2320 B	
MW-104-20250224 (A5B1611-03)				Matrix: Water				
Batch: 25B0818								
Total Alkalinity	313	---	20.0	mg CaCO3/L	1	02/26/25 15:17	SM 2320 B	
Bicarbonate Alkalinity	313	---	20.0	mg CaCO3/L	1	02/26/25 15:17	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 15:17	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 15:17	SM 2320 B	
MW-108R-20250224 (A5B1611-04)				Matrix: Water				
Batch: 25B0818								
Total Alkalinity	2820	---	20.0	mg CaCO3/L	1	02/26/25 16:47	SM 2320 B	
Bicarbonate Alkalinity	2820	---	20.0	mg CaCO3/L	1	02/26/25 16:47	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 16:47	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 16:47	SM 2320 B	
MW-107R-20250224 (A5B1611-05)				Matrix: Water				
Batch: 25B0818								
Total Alkalinity	802	---	20.0	mg CaCO3/L	1	02/26/25 17:14	SM 2320 B	
Bicarbonate Alkalinity	802	---	20.0	mg CaCO3/L	1	02/26/25 17:14	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 17:14	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 17:14	SM 2320 B	
MW-101R-20250224 (A5B1611-06)				Matrix: Water				
Batch: 25B0818								

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Project: Union Station

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Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-101R-20250224 (A5B1611-06)				Matrix: Water				
Total Alkalinity	783	---	20.0	mg CaCO3/L	1	02/26/25 17:35	SM 2320 B	
Bicarbonate Alkalinity	783	---	20.0	mg CaCO3/L	1	02/26/25 17:35	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 17:35	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 17:35	SM 2320 B	
B-6R-20250224 (A5B1611-07)				Matrix: Water				
Batch: 25B0818								
Total Alkalinity	862	---	20.0	mg CaCO3/L	1	02/26/25 17:48	SM 2320 B	
Bicarbonate Alkalinity	862	---	20.0	mg CaCO3/L	1	02/26/25 17:48	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 17:48	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 17:48	SM 2320 B	
B-4R-20250225 (A5B1611-08)				Matrix: Water				
Batch: 25B0818								
Total Alkalinity	372	---	20.0	mg CaCO3/L	1	02/26/25 18:01	SM 2320 B	
Bicarbonate Alkalinity	372	---	20.0	mg CaCO3/L	1	02/26/25 18:01	SM 2320 B	
Carbonate Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 18:01	SM 2320 B	
Hydroxide Alkalinity	ND	---	20.0	mg CaCO3/L	1	02/26/25 18:01	SM 2320 B	

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Project Manager: James Welles

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0005 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (25C0005-BLK1)		Prepared: 03/03/25 07:28 Analyzed: 03/03/25 20:31										
NWTPH-Dx LL												
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x						
LCS (25C0005-BS1)		Prepared: 03/03/25 07:28 Analyzed: 03/03/25 20:55										
NWTPH-Dx LL												
Diesel	421	---	80.0	ug/L	1	500	---	84	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 105 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (25C0005-BSD1)		Prepared: 03/03/25 07:28 Analyzed: 03/03/25 21:19										
NWTPH-Dx LL												
Diesel	373	---	80.0	ug/L	1	500	---	75	36 - 132%	12	30%	
Surr: o-Terphenyl (Surr)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 25C0104 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (25C0104-BLK1)			Prepared: 03/04/25 11:27 Analyzed: 03/04/25 20:41									
<u>NWTPH-Dx LL</u>												
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 87 %		Limits: 50-150 %		Dilution: 1x						
LCS (25C0104-BS1)			Prepared: 03/04/25 11:27 Analyzed: 03/04/25 21:03									
<u>NWTPH-Dx LL</u>												
Diesel	417	---	80.0	ug/L	1	500	---	83	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 97 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (25C0104-BSD1)			Prepared: 03/04/25 11:27 Analyzed: 03/04/25 21:25									Q-19
<u>NWTPH-Dx LL</u>												
Diesel	403	---	80.0	ug/L	1	500	---	81	36 - 132%	3	30%	
Surr: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						

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Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0104 - EPA 3510C (Fuels/Acid Ext.)								Water				

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25B0922 - EPA 5030C						Water						
Blank (25B0922-BLK1)		Prepared: 02/28/25 08:22 Analyzed: 02/28/25 10:48										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		103 %		50-150 %		"						
LCS (25B0922-BS2)		Prepared: 02/28/25 08:22 Analyzed: 02/28/25 10:25										
NWTPH-Gx (MS)												
Gasoline Range Organics	445	---	100	ug/L	1	500	---	89	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 99 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		101 %		50-150 %		"						
Duplicate (25B0922-DUP1)		Prepared: 02/28/25 08:22 Analyzed: 02/28/25 18:43										
QC Source Sample: MW-105-20250224 (A5B1611-02)												
NWTPH-Gx (MS)												
Gasoline Range Organics	835	---	100	ug/L	1	---	940	---	---	12	30%	F-03
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		94 %		50-150 %		"						

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Seattle, WA 98101

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25B0922 - EPA 5030C												
Water												
Blank (25B0922-BLK1)												
Prepared: 02/28/25 08:22 Analyzed: 02/28/25 10:48												
EPA 8260D												
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 107 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>100 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>104 % 80-120 % "</i>												
LCS (25B0922-BS1)												
Prepared: 02/28/25 08:22 Analyzed: 02/28/25 09:49												
EPA 8260D												
Benzene	22.3	0.100	0.200	ug/L	1	20.0	---	112	80 - 120%	---	---	
Toluene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
Ethylbenzene	22.0	0.250	0.500	ug/L	1	20.0	---	110	80 - 120%	---	---	
m,p-Xylene	45.2	0.500	1.00	ug/L	1	40.0	---	113	80 - 120%	---	---	
o-Xylene	19.0	0.250	0.500	ug/L	1	20.0	---	95	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 106 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>97 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>94 % 80-120 % "</i>												
Duplicate (25B0922-DUP1)												
Prepared: 02/28/25 08:22 Analyzed: 02/28/25 18:43												
QC Source Sample: MW-105-20250224 (A5B1611-02)												
EPA 8260D												
Benzene	147	0.100	0.200	ug/L	1	---	169	---	---	14	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	1.15	0.250	0.500	ug/L	1	---	1.14	---	---	0.9	30%	
m,p-Xylene	0.890	0.500	1.00	ug/L	1	---	0.930	---	---	4	30%	J
o-Xylene	0.370	0.250	0.500	ug/L	1	---	0.370	---	---	0	30%	J
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 101 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>100 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>99 % 80-120 % "</i>												

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Cameron O'Brien, Project Manager

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Seattle, WA 98101

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25B0809 - EPA 3511 (Bottle Extraction)						Water						
Blank (25B0809-BLK1)		Prepared: 02/26/25 07:09		Analyzed: 02/26/25 11:53								
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benzo(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	0.0740	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	B
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 80 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		95 %		80-132 %		"						

LCS (25B0809-BS1)

Prepared: 02/26/25 07:09 Analyzed: 02/26/25 12:26

EPA 8270E LVI

Acenaphthene	1.61	0.0160	0.0320	ug/L	1	1.60	---	100	80 - 120%	---	---
Acenaphthylene	1.40	0.0160	0.0320	ug/L	1	1.60	---	87	80 - 124%	---	---
Anthracene	1.47	0.0160	0.0320	ug/L	1	1.60	---	92	80 - 123%	---	---
Benz(a)anthracene	1.53	0.00800	0.0160	ug/L	1	1.60	---	96	80 - 122%	---	---
Benzo(a)pyrene	1.62	0.00800	0.0160	ug/L	1	1.60	---	101	80 - 129%	---	---
Benzo(b)fluoranthene	1.54	0.00800	0.0160	ug/L	1	1.60	---	96	80 - 124%	---	---
Benzo(k)fluoranthene	1.60	0.00800	0.0160	ug/L	1	1.60	---	100	80 - 125%	---	---
Benzo(g,h,i)perylene	1.46	0.0160	0.0320	ug/L	1	1.60	---	91	80 - 120%	---	---

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503-718-2323

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1809 7th Ave Suite 1111

Seattle, WA 98101

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25B0809 - EPA 3511 (Bottle Extraction)						Water						
LCS (25B0809-BS1)		Prepared: 02/26/25 07:09		Analyzed: 02/26/25 12:26								
Chrysene	1.48	0.00800	0.0160	ug/L	1	1.60	---	93	80 - 120%	---	---	
Dibenz(a,h)anthracene	1.51	0.00800	0.0160	ug/L	1	1.60	---	94	80 - 120%	---	---	
Fluoranthene	1.47	0.0160	0.0320	ug/L	1	1.60	---	92	80 - 126%	---	---	
Fluorene	1.78	0.0160	0.0320	ug/L	1	1.60	---	111	77 - 127%	---	---	
Indeno(1,2,3-cd)pyrene	1.37	0.00800	0.0160	ug/L	1	1.60	---	86	80 - 121%	---	---	
1-Methylnaphthalene	1.44	0.0320	0.0640	ug/L	1	1.60	---	90	53 - 148%	---	---	
2-Methylnaphthalene	1.40	0.0320	0.0640	ug/L	1	1.60	---	87	48 - 150%	---	---	
Naphthalene	1.61	0.0320	0.0640	ug/L	1	1.60	---	101	78 - 120%	---	---	B
Phenanthrene	1.49	0.0320	0.0640	ug/L	1	1.60	---	93	80 - 120%	---	---	
Pyrene	1.46	0.0160	0.0320	ug/L	1	1.60	---	91	80 - 125%	---	---	
Carbazole	1.80	0.0160	0.0320	ug/L	1	1.60	---	112	65 - 141%	---	---	
Dibenzofuran	1.50	0.0160	0.0320	ug/L	1	1.60	---	93	76 - 121%	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 79 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		98 %		80-132 %		"						

LCS Dup (25B0809-BSD1)		Prepared: 02/26/25 07:09		Analyzed: 02/26/25 12:59									Q-19
EPA 8270E LVI													
Acenaphthene	1.54	0.0160	0.0320	ug/L	1	1.60	---	96	80 - 120%	4	30%		
Acenaphthylene	1.38	0.0160	0.0320	ug/L	1	1.60	---	86	80 - 124%	0.9	30%		
Anthracene	1.44	0.0160	0.0320	ug/L	1	1.60	---	90	80 - 123%	2	30%		
Benz(a)anthracene	1.49	0.00800	0.0160	ug/L	1	1.60	---	93	80 - 122%	3	30%		
Benzo(a)pyrene	1.61	0.00800	0.0160	ug/L	1	1.60	---	101	80 - 129%	0.3	30%		
Benzo(b)fluoranthene	1.51	0.00800	0.0160	ug/L	1	1.60	---	94	80 - 124%	2	30%		
Benzo(k)fluoranthene	1.57	0.00800	0.0160	ug/L	1	1.60	---	98	80 - 125%	2	30%		
Benzo(g,h,i)perylene	1.41	0.0160	0.0320	ug/L	1	1.60	---	88	80 - 120%	3	30%		
Chrysene	1.45	0.00800	0.0160	ug/L	1	1.60	---	91	80 - 120%	2	30%		
Dibenz(a,h)anthracene	1.47	0.00800	0.0160	ug/L	1	1.60	---	92	80 - 120%	2	30%		
Fluoranthene	1.44	0.0160	0.0320	ug/L	1	1.60	---	90	80 - 126%	2	30%		
Fluorene	1.69	0.0160	0.0320	ug/L	1	1.60	---	105	77 - 127%	5	30%		
Indeno(1,2,3-cd)pyrene	1.38	0.00800	0.0160	ug/L	1	1.60	---	87	80 - 121%	0.9	30%		
1-Methylnaphthalene	1.32	0.0320	0.0640	ug/L	1	1.60	---	83	53 - 148%	9	30%		
2-Methylnaphthalene	1.28	0.0320	0.0640	ug/L	1	1.60	---	80	48 - 150%	9	30%		
Naphthalene	1.54	0.0320	0.0640	ug/L	1	1.60	---	96	78 - 120%	4	30%	B	
Phenanthrene	1.47	0.0320	0.0640	ug/L	1	1.60	---	92	80 - 120%	2	30%		

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A5B1611 - 03 26 25 1337

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25B0809 - EPA 3511 (Bottle Extraction)						Water						
LCS Dup (25B0809-BSD1)												Q-19
Pyrene	1.43	0.0160	0.0320	ug/L	1	1.60	---	89	80 - 125%	2	30%	
Carbazole	1.72	0.0160	0.0320	ug/L	1	1.60	---	108	65 - 141%	4	30%	
Dibenzofuran	1.43	0.0160	0.0320	ug/L	1	1.60	---	89	76 - 121%	5	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 80 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		98 %		80-132 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0378 - EPA 3015A						Water						
Blank (25C0378-BLK1)		Prepared: 03/10/25 16:08		Analyzed: 03/11/25 00:08								
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0378-BS1)		Prepared: 03/10/25 16:08		Analyzed: 03/11/25 00:24								
EPA 6020B												
Arsenic	52.9	---	1.00	ug/L	1	55.6	---	95	80 - 120%	---	---	
Duplicate (25C0378-DUP1)		Prepared: 03/10/25 16:08		Analyzed: 03/11/25 01:16								
QC Source Sample: B-4R-20250225 (A5B1611-08)												
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	0.646	---	---	***	20%	
Matrix Spike (25C0378-MS1)		Prepared: 03/10/25 16:08		Analyzed: 03/11/25 01:32								
QC Source Sample: B-4R-20250225 (A5B1611-08)												
EPA 6020B												
Arsenic	55.1	---	1.00	ug/L	1	55.6	0.646	98	75 - 125%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0364 - Matrix Matched Direct Inject							Water					
Blank (25C0364-BLK1)		Prepared: 03/10/25 12:21			Analyzed: 03/10/25 22:44							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0364-BS1)		Prepared: 03/10/25 12:21			Analyzed: 03/10/25 22:50							
EPA 6020B (Diss)												
Arsenic	53.1	---	1.00	ug/L	1	55.6	---	96	80 - 120%	---	---	
Duplicate (25C0364-DUP1)		Prepared: 03/10/25 12:21			Analyzed: 03/10/25 23:51							
QC Source Sample: B-4R-20250225 (A5B1611-08)												
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	0.689	---	---	***	20%	
Matrix Spike (25C0364-MS1)		Prepared: 03/10/25 12:21			Analyzed: 03/10/25 23:57							
QC Source Sample: B-4R-20250225 (A5B1611-08)												
EPA 6020B (Diss)												
Arsenic	56.8	---	1.00	ug/L	1	55.6	0.689	101	75 - 125%	---	---	

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Project Manager: James Welles

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QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0967 - Matrix Matched Direct Inject							Water					
Blank (25C0967-BLK1)		Prepared: 03/24/25 12:39			Analyzed: 03/25/25 18:18							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	FILT3
LCS (25C0967-BS1)		Prepared: 03/24/25 12:39			Analyzed: 03/25/25 18:23							
EPA 6020B (Diss)												
Arsenic	55.2	---	1.00	ug/L	1	55.6	---	99	80 - 120%	---	---	
Duplicate (25C0967-DUP1)		Prepared: 03/24/25 12:39			Analyzed: 03/25/25 18:33							
QC Source Sample: B-6R-20250224 (A5B1611-07RE1)												
EPA 6020B (Diss)												
Arsenic	19.1	---	1.00	ug/L	1	---	18.9	---	---	1	20%	FILT1
Matrix Spike (25C0967-MS1)		Prepared: 03/24/25 12:39			Analyzed: 03/25/25 18:39							
QC Source Sample: B-6R-20250224 (A5B1611-07RE1)												
EPA 6020B (Diss)												
Arsenic	77.6	---	1.00	ug/L	1	55.6	18.9	106	75 - 125%	---	---	FILT1

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25B0801 - Method Prep: Aq							Water					
Blank (25B0801-BLK1)		Prepared: 02/25/25 18:11		Analyzed: 02/25/25 19:06								
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (25B0801-BS1)		Prepared: 02/25/25 18:11		Analyzed: 02/25/25 19:28								
EPA 300.0												
Nitrate-Nitrogen	2.08	---	0.250	mg/L	1	2.00	---	104	90 - 110%	---	---	
Sulfate	8.22	---	1.00	mg/L	1	8.00	---	103	90 - 110%	---	---	
Duplicate (25B0801-DUP1)		Prepared: 02/25/25 18:11		Analyzed: 02/25/25 21:37								
QC Source Sample: MW-104-20250224 (A5B1611-03)												
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	ND	---	---	---	10%	
Sulfate	5.51	---	1.00	mg/L	1	---	5.47	---	---	0.7	10%	
Duplicate (25B0801-DUP2)		Prepared: 02/25/25 18:11		Analyzed: 02/26/25 00:08								
QC Source Sample: MW-101R-20250224 (A5B1611-06)												
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	ND	---	---	---	10%	
Sulfate	ND	---	1.00	mg/L	1	---	ND	---	---	---	10%	
Matrix Spike (25B0801-MS1)		Prepared: 02/25/25 18:11		Analyzed: 02/25/25 21:59								
QC Source Sample: MW-104-20250224 (A5B1611-03)												
EPA 300.0												
Nitrate-Nitrogen	2.58	---	0.312	mg/L	1	2.50	ND	103	87 - 112%	---	---	
Sulfate	15.7	---	1.25	mg/L	1	10.0	5.47	103	88 - 115%	---	---	
Matrix Spike (25B0801-MS2)		Prepared: 02/25/25 18:11		Analyzed: 02/26/25 00:30								
QC Source Sample: MW-101R-20250224 (A5B1611-06)												
EPA 300.0												
Nitrate-Nitrogen	2.57	---	0.312	mg/L	1	2.50	ND	103	87 - 112%	---	---	
Sulfate	10.6	---	1.25	mg/L	1	10.0	ND	106	88 - 115%	---	---	

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Seattle, WA 98101

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Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25B0869 - Total Dissolved Solids - 2022							Water					
Blank (25B0869-BLK1)		Prepared: 02/27/25 19:17 Analyzed: 02/27/25 19:17										
SM 2540 C												
Total Dissolved Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Reference (25B0869-SRM1)		Prepared: 02/27/25 19:17 Analyzed: 02/27/25 19:17										
SM 2540 C												
Total Dissolved Solids	2540	---		mg/L	1	2330		109	81 - 119%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0015 - Total Dissolved Solids - 2022							Water					
Blank (25C0015-BLK1)		Prepared: 03/03/25 18:31			Analyzed: 03/03/25 18:31							
SM 2540 C												
Total Dissolved Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (25C0015-DUP1)		Prepared: 03/03/25 18:31			Analyzed: 03/03/25 18:31							
QC Source Sample: B-4R-20250225 (A5B1611-08)												
SM 2540 C												
Total Dissolved Solids	505	---	5.38	mg/L	1	---	493	---	---	2.48	10%	
Reference (25C0015-SRM1)		Prepared: 03/03/25 18:31			Analyzed: 03/03/25 18:31							
SM 2540 C												
Total Dissolved Solids	2610	---		mg/L	1	2260		116	80 - 120%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0029 - Total Suspended Solids - 2022							Water					
Blank (25C0029-BLK1)		Prepared: 03/03/25 12:25			Analyzed: 03/03/25 12:25							
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (25C0029-DUP2)		Prepared: 03/03/25 12:25			Analyzed: 03/03/25 12:25							
QC Source Sample: B-6R-20250224 (A5B1611-07)												
SM 2540 D												
Total Suspended Solids	15.0	---	5.00	mg/L	1	---	15.0	---	---	0.00	10%	TSS
Reference (25C0029-SRM1)		Prepared: 03/03/25 12:25			Analyzed: 03/03/25 12:25							
SM 2540 D												
Total Suspended Solids	857	---		mg/L	1	824		104	85 - 115%	---	---	

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A5B1611 - 03 26 25 1337

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0092 - Total Suspended Solids - 2022							Water					
Blank (25C0092-BLK1)		Prepared: 03/04/25 15:45			Analyzed: 03/04/25 15:45							
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Reference (25C0092-SRM1)		Prepared: 03/04/25 15:45			Analyzed: 03/04/25 15:45							
SM 2540 D												
Total Suspended Solids	854	---		mg/L	1	824		104	85 - 115%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Seattle, WA 98101

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337**

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25B0818 - Method Prep: Aq							Water					
Blank (25B0818-BLK1)		Prepared: 02/26/25 08:30			Analyzed: 02/26/25 11:48							
SM 2320 B												
Total Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
Bicarbonate Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
Carbonate Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
Hydroxide Alkalinity	ND	---	20.0	mg	1	---	---	---	---	---	---	
				CaCO3/L								
LCS (25B0818-BS1)		Prepared: 02/26/25 08:30			Analyzed: 02/26/25 12:00							
SM 2320 B												
Total Alkalinity	103	---	20.0	mg	1	100	---	103	90 - 115%	---	---	
				CaCO3/L								
Duplicate (25B0818-DUP1)		Prepared: 02/26/25 08:30			Analyzed: 02/26/25 13:46							
QC Source Sample: MW-102R-20250224 (A5B1611-01)												
SM 2320 B												
Total Alkalinity	724	---	20.0	mg	1	---	720	---	---	0.5	5%	
				CaCO3/L								
Bicarbonate Alkalinity	724	---	20.0	mg	1	---	720	---	---	0.5	5%	
				CaCO3/L								
Carbonate Alkalinity	ND	---	20.0	mg	1	---	ND	---	---	---	5%	
				CaCO3/L								
Hydroxide Alkalinity	ND	---	20.0	mg	1	---	ND	---	---	---	5%	
				CaCO3/L								

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Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0005							
A5B1611-02	Water	NWTPH-Dx LL	02/24/25 14:03	03/03/25 07:28	1050mL/2mL	1000mL/2mL	0.95
A5B1611-04	Water	NWTPH-Dx LL	02/24/25 11:15	03/03/25 07:28	1000mL/2mL	1000mL/2mL	1.00
Batch: 25C0104							
A5B1611-01	Water	NWTPH-Dx LL	02/24/25 11:44	03/04/25 11:27	1030mL/2mL	1000mL/2mL	0.97
A5B1611-03	Water	NWTPH-Dx LL	02/24/25 16:00	03/04/25 11:27	1000mL/2mL	1000mL/2mL	1.00
A5B1611-05	Water	NWTPH-Dx LL	02/24/25 12:48	03/04/25 11:27	1000mL/2mL	1000mL/2mL	1.00
A5B1611-06	Water	NWTPH-Dx LL	02/24/25 14:05	03/04/25 11:27	980mL/2mL	1000mL/2mL	1.02
A5B1611-07	Water	NWTPH-Dx LL	02/24/25 16:15	03/04/25 15:50	990mL/2mL	1000mL/2mL	1.01
A5B1611-08	Water	NWTPH-Dx LL	02/25/25 10:17	03/04/25 15:50	1000mL/2mL	1000mL/2mL	1.00

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25B0922							
A5B1611-01	Water	NWTPH-Gx (MS)	02/24/25 11:44	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-02	Water	NWTPH-Gx (MS)	02/24/25 14:03	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-03	Water	NWTPH-Gx (MS)	02/24/25 16:00	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-04	Water	NWTPH-Gx (MS)	02/24/25 11:15	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-05	Water	NWTPH-Gx (MS)	02/24/25 12:48	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-06	Water	NWTPH-Gx (MS)	02/24/25 14:05	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-07	Water	NWTPH-Gx (MS)	02/24/25 16:15	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-08	Water	NWTPH-Gx (MS)	02/25/25 10:17	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00

BTEX Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25B0922							
A5B1611-01	Water	EPA 8260D	02/24/25 11:44	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-02	Water	EPA 8260D	02/24/25 14:03	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-03	Water	EPA 8260D	02/24/25 16:00	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-04	Water	EPA 8260D	02/24/25 11:15	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-05	Water	EPA 8260D	02/24/25 12:48	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-06	Water	EPA 8260D	02/24/25 14:05	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00
A5B1611-07	Water	EPA 8260D	02/24/25 16:15	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00

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Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337**

SAMPLE PREPARATION INFORMATION

BTEX Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A5B1611-08	Water	EPA 8260D	02/25/25 10:17	02/28/25 11:05	5mL/5mL	5mL/5mL	1.00

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25B0809							
A5B1611-01	Water	EPA 8270E LVI	02/24/25 11:44	02/26/25 07:09	97.79mL/5mL	125mL/5mL	1.28
A5B1611-02	Water	EPA 8270E LVI	02/24/25 14:03	02/26/25 07:09	93.98mL/5mL	125mL/5mL	1.33
A5B1611-02RE1	Water	EPA 8270E LVI	02/24/25 14:03	02/26/25 07:09	93.98mL/5mL	125mL/5mL	1.33
A5B1611-03	Water	EPA 8270E LVI	02/24/25 16:00	02/26/25 07:09	106.17mL/5mL	125mL/5mL	1.18
A5B1611-03RE1	Water	EPA 8270E LVI	02/24/25 16:00	02/26/25 07:09	106.17mL/5mL	125mL/5mL	1.18
A5B1611-04	Water	EPA 8270E LVI	02/24/25 11:15	02/26/25 07:09	125.45mL/5mL	125mL/5mL	1.00
A5B1611-05	Water	EPA 8270E LVI	02/24/25 12:48	02/26/25 07:09	125.19mL/5mL	125mL/5mL	1.00
A5B1611-05RE1	Water	EPA 8270E LVI	02/24/25 12:48	02/26/25 07:09	125.19mL/5mL	125mL/5mL	1.00
A5B1611-06	Water	EPA 8270E LVI	02/24/25 14:05	02/26/25 07:09	114.78mL/5mL	125mL/5mL	1.09
A5B1611-06RE1	Water	EPA 8270E LVI	02/24/25 14:05	02/26/25 07:09	114.78mL/5mL	125mL/5mL	1.09
A5B1611-07	Water	EPA 8270E LVI	02/24/25 16:15	02/26/25 07:09	115.06mL/5mL	125mL/5mL	1.09
A5B1611-08	Water	EPA 8270E LVI	02/25/25 10:17	02/26/25 07:09	121.98mL/5mL	125mL/5mL	1.02

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0378							
A5B1611-01	Water	EPA 6020B	02/24/25 11:44	03/10/25 16:08	45mL/50mL	45mL/50mL	1.00
A5B1611-02	Water	EPA 6020B	02/24/25 14:03	03/10/25 16:08	45mL/50mL	45mL/50mL	1.00
A5B1611-03	Water	EPA 6020B	02/24/25 16:00	03/10/25 16:08	45mL/50mL	45mL/50mL	1.00
A5B1611-04	Water	EPA 6020B	02/24/25 11:15	03/10/25 16:08	45mL/50mL	45mL/50mL	1.00
A5B1611-05	Water	EPA 6020B	02/24/25 12:48	03/10/25 16:08	45mL/50mL	45mL/50mL	1.00
A5B1611-06	Water	EPA 6020B	02/24/25 14:05	03/10/25 16:08	45mL/50mL	45mL/50mL	1.00
A5B1611-07	Water	EPA 6020B	02/24/25 16:15	03/10/25 16:08	45mL/50mL	45mL/50mL	1.00
A5B1611-08	Water	EPA 6020B	02/25/25 10:17	03/10/25 16:08	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 6020B (ICPMS)

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SAMPLE PREPARATION INFORMATION

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0364							
A5B1611-01	Water	EPA 6020B (Diss)	02/24/25 11:44	03/10/25 12:21	45mL/50mL	45mL/50mL	1.00
A5B1611-02	Water	EPA 6020B (Diss)	02/24/25 14:03	03/10/25 12:21	45mL/50mL	45mL/50mL	1.00
A5B1611-03	Water	EPA 6020B (Diss)	02/24/25 16:00	03/10/25 12:21	45mL/50mL	45mL/50mL	1.00
A5B1611-04	Water	EPA 6020B (Diss)	02/24/25 11:15	03/10/25 12:21	45mL/50mL	45mL/50mL	1.00
A5B1611-05	Water	EPA 6020B (Diss)	02/24/25 12:48	03/10/25 12:21	45mL/50mL	45mL/50mL	1.00
A5B1611-06	Water	EPA 6020B (Diss)	02/24/25 14:05	03/10/25 12:21	45mL/50mL	45mL/50mL	1.00
A5B1611-07	Water	EPA 6020B (Diss)	02/24/25 16:15	03/10/25 12:21	45mL/50mL	45mL/50mL	1.00
A5B1611-08	Water	EPA 6020B (Diss)	02/25/25 10:17	03/10/25 12:21	45mL/50mL	45mL/50mL	1.00
Batch: 25C0967							
A5B1611-07RE1	Water	EPA 6020B (Diss)	02/24/25 16:15	03/24/25 12:39	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25B0801							
A5B1611-01	Water	EPA 300.0	02/24/25 11:44	02/25/25 18:11	5mL/5mL	5mL/5mL	1.00
A5B1611-02	Water	EPA 300.0	02/24/25 14:03	02/25/25 18:11	5mL/5mL	5mL/5mL	1.00
A5B1611-03	Water	EPA 300.0	02/24/25 16:00	02/25/25 18:11	5mL/5mL	5mL/5mL	1.00
A5B1611-04	Water	EPA 300.0	02/24/25 11:15	02/25/25 18:11	5mL/5mL	5mL/5mL	1.00
A5B1611-05	Water	EPA 300.0	02/24/25 12:48	02/25/25 18:11	5mL/5mL	5mL/5mL	1.00
A5B1611-06	Water	EPA 300.0	02/24/25 14:05	02/25/25 18:11	5mL/5mL	5mL/5mL	1.00
A5B1611-07	Water	EPA 300.0	02/24/25 16:15	02/25/25 18:11	5mL/5mL	5mL/5mL	1.00
A5B1611-08	Water	EPA 300.0	02/25/25 10:17	02/25/25 18:11	5mL/5mL	5mL/5mL	1.00

Solid and Moisture Determinations

Prep: Total Dissolved Solids - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25B0869							
A5B1611-03	Water	SM 2540 C	02/24/25 16:00	02/27/25 19:17	100mL	100mL	1.00
A5B1611-04	Water	SM 2540 C	02/24/25 11:15	02/27/25 19:17	5mL	100mL	20.00
A5B1611-05	Water	SM 2540 C	02/24/25 12:48	02/27/25 19:17	50mL	100mL	2.00
A5B1611-06	Water	SM 2540 C	02/24/25 14:05	02/27/25 19:17	50mL	100mL	2.00
A5B1611-07	Water	SM 2540 C	02/24/25 16:15	02/27/25 19:17	50mL	100mL	2.00

Apex Laboratories

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

SAMPLE PREPARATION INFORMATION

Solid and Moisture Determinations

Prep: Total Dissolved Solids - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0015							
A5B1611-01	Water	SM 2540 C	02/24/25 11:44	03/03/25 18:31	5mL	100mL	20.00
A5B1611-02	Water	SM 2540 C	02/24/25 14:03	03/03/25 18:31	2mL	100mL	50.00
A5B1611-08	Water	SM 2540 C	02/25/25 10:17	03/03/25 18:31	100mL	100mL	1.00

Prep: Total Suspended Solids - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0029							
A5B1611-01	Water	SM 2540 D	02/24/25 11:44	03/03/25 12:25	100mL	100mL	1.00
A5B1611-02	Water	SM 2540 D	02/24/25 14:03	03/03/25 12:25	100mL	100mL	1.00
A5B1611-03	Water	SM 2540 D	02/24/25 16:00	03/03/25 12:25	100mL	100mL	1.00
A5B1611-04	Water	SM 2540 D	02/24/25 11:15	03/03/25 12:25	100mL	100mL	1.00
A5B1611-05	Water	SM 2540 D	02/24/25 12:48	03/03/25 12:25	100mL	100mL	1.00
A5B1611-06	Water	SM 2540 D	02/24/25 14:05	03/03/25 12:25	100mL	100mL	1.00
A5B1611-07	Water	SM 2540 D	02/24/25 16:15	03/03/25 12:25	100mL	100mL	1.00
Batch: 25C0092							
A5B1611-08	Water	SM 2540 D	02/25/25 10:17	03/04/25 15:45	100mL	100mL	1.00

Conventional Chemistry Parameters

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25B0818							
A5B1611-01	Water	SM 2320 B	02/24/25 11:44	02/26/25 08:30	60mL/60mL	60mL/60mL	NA
A5B1611-02	Water	SM 2320 B	02/24/25 14:03	02/26/25 08:30	60mL/60mL	60mL/60mL	NA
A5B1611-03	Water	SM 2320 B	02/24/25 16:00	02/26/25 08:30	60mL/60mL	60mL/60mL	NA
A5B1611-04	Water	SM 2320 B	02/24/25 11:15	02/26/25 08:30	60mL/60mL	60mL/60mL	NA
A5B1611-05	Water	SM 2320 B	02/24/25 12:48	02/26/25 08:30	60mL/60mL	60mL/60mL	NA
A5B1611-06	Water	SM 2320 B	02/24/25 14:05	02/26/25 08:30	60mL/60mL	60mL/60mL	NA
A5B1611-07	Water	SM 2320 B	02/24/25 16:15	02/26/25 08:30	60mL/60mL	60mL/60mL	NA
A5B1611-08	Water	SM 2320 B	02/25/25 10:17	02/26/25 08:30	60mL/60mL	60mL/60mL	NA

Lab Filtration

Prep: Lab Filtration

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0535							

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: **Union Station**

Project Number: **2644-001**

Project Manager: **James Welles**

Report ID:

A5B1611 - 03 26 25 1337

SAMPLE PREPARATION INFORMATION

Lab Filtration

Prep: Lab Filtration

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A5B1611-07	Water	NA	02/24/25 16:15	03/13/25 14:38	150mL/150mL		NA

Apex Laboratories

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Cameron O'Brien, Project Manager

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337****QUALIFIER DEFINITIONS****Client Sample and Quality Control (QC) Sample Qualifier Definitions:****Apex Laboratories**

AMEND	The Result, Reporting Level, Recovery and/or RPD has changed. Note: Batch QC marked as AMENDED may or may not have been issued prior to the change. Case Narrative included if client data is affected.
B	Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
DCNT	Sample decanted due to the presence of sediment in water samples, or water in sediment or soil samples. (Note: Decanted aqueous sample bottles are not solvent rinsed.)
F-03	The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
FILT1	Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
FILT3	This is a laboratory filtration blank, associated with filtration batch 25C0535. See Prep page of report for associated samples.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
M-04	Due to matrix interference, this analyte cannot be accurately quantified. The reported result may contain a high bias.
M-05	Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
TSS	Dried residue was less than 2.5mg as specified in the method. Results meet regulatory requirements.

Apex Laboratories

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Cameron O'Brien, Project Manager

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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503-718-2323

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Seattle, WA 98101

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337****REPORTING NOTES AND CONVENTIONS:****Abbreviations:**

DET	Analyte DETECTED at or above the detection or reporting limit.
ND	Analyte NOT DETECTED at or above the detection or reporting limit.
NR	Result Not Reported.
RPD	Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis:	Results for soil samples are generally reported on a 100% dry weight basis. The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.
"dry"	Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
"wet"	Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
" "	Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- "	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
" *** "	Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: **Union Station**

Project Number: **2644-001**

Project Manager: **James Welles**

Report ID:

A5B1611 - 03 26 25 1337

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

Decanted Samples:

Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight correction as for normal analyses.

In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

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Cameron O'Brien, Project Manager

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: **Union Station**Project Number: **2644-001**Project Manager: **James Welles****Report ID:****A5B1611 - 03 26 25 1337****LABORATORY ACCREDITATION INFORMATION****ORELAP Certification ID: OR100062 (Primary Accreditation)****EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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Farallon Consulting - Seattle

1809 7th Ave Suite 1111

Seattle, WA 98101

Project: Union Station

Project Number: 2644-001

Project Manager: James Welles

Report ID:

A5B1611 - 03 26 25 1337

APEX LABS COOLER RECEIPT FORM

Client: Farallon Consulting Element WO#: A5 B 1611

Project/Project #: Union Station Property 2644-001

Delivery Info:

Date/time received: 2/5/25 @ 1517 By: AJM

Delivered by: Apex Client ☒ ESS FedEx UPS Radio Morgan SDS Evergreen ☒ OtherFrom USDA Regulated Origin? Yes No ☒

Cooler Inspection Date/time inspected: 2/5/25 @ 1517 By: ADW

Chain of Custody included? Yes ☒ NoSigned/dated by client? Yes ☒ NoContains USDA Reg. Soils? Yes No ☒ Unsure (email RegSoils)

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	2.8	4.6	2.4	2.1			
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ NoOut of temperature samples form initiated? Yes ☒ No

Sample Inspection: Date/time inspected: 2/5/25 @ 1600 By: L

All samples intact? Yes ☒ No Comments:Bottle labels/COCs agree? Yes ☒ No Comments:COC/container discrepancies form initiated? Yes No ☒Containers/volumes received appropriate for analysis? Yes ☒ No Comments:Do VOA vials have visible headspace? Yes ☒ No NA

Comments: 4/6 VOAs have HS on 108R.

Water samples: pH checked: Yes ☒ No NA pH appropriate? Yes No ☒ NA pH ID: A23I17C

Comments: pH 7 on 2/2 HCL Ambers for 105, 108R.

Labeled by: L Witness: AJM Cooler Inspected by: L

Form Y-003 R-02

Apex Laboratories

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Cameron O'Brien, Project Manager

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March 12, 2025

Apex Laboratories
ATTN: Cameron O'Brien
6700 S.W. Sandburg St.
Tigard, OR 97223



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
ASTM D1946, RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

ALASKA CS-LAP 24-002
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: A5B1611
Lab Number: S022707-01/08

Enclosed are the results for sample(s) received 2/27/25 by Air Technology Laboratories. Samples were received intact and chilled to 5° C. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink that reads "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER

Page 2 of 7
S022707

Apex Laboratories

A5B1611

5022707-01708

ZA

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Cameron O'Brien

RECEIVING LABORATORY:

Air Technology Laboratories, Inc
18501 E. Gale Ave Suite 130
City of Industry, CA 91748
Phone : (626) 964-4032
Fax: (626) 964-5832

01 Sample Name: MW-102R-20250224 Water Sampled: 02/24/25 11:44 (A5B1611-01)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	03/10/25 17:00	03/10/25 11:44	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

02 Sample Name: MW-105-20250224 Water Sampled: 02/24/25 14:03 (A5B1611-02)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	03/10/25 17:00	03/10/25 14:03	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

03 Sample Name: MW-104-20250224 Water Sampled: 02/24/25 16:00 (A5B1611-03)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	03/10/25 17:00	03/10/25 16:00	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

Standard TAT

50C
+10

Released By

Date

Received By

Date

UPS (Shipper)

2/27/25

10:07

Received By

2/27/25

10:07

Released By

Date

Received By

Date

SUBCONTRACT ORDER

Apex Laboratories

A5B1611

ZA

5022707-01/08

04 Sample Name: MW-108R-20250224

Water

Sampled: 02/24/25 11:15

(A5B1611-04)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	03/10/25 17:00	03/10/25 11:15	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

06 Sample Name: MW-107R-20250224

Water

Sampled: 02/24/25 12:48

(A5B1611-05)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	03/10/25 17:00	03/10/25 12:48	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

06 Sample Name: MW-101R-20250224

Water

Sampled: 02/24/25 14:05

(A5B1611-06)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	03/10/25 17:00	03/10/25 14:05	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

0x Sample Name: B-6R-20250224

Water

Sampled: 02/24/25 16:15

(A5B1611-07)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	03/10/25 17:00	03/10/25 16:15	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

5°C
+10

Released By	Date	Received By	Date
UPS (Shipper)	2/27/25	10:07	2/27/25
Released By	Date	Received By	Date
			10:07

SUBCONTRACT ORDER

Apex Laboratories

AS 2/27/25 A5B1611

JA

S022707 -01/08

08

Sample Name: B-4R-20250225

Water

Sampled: 02/25/25 10:17

(A5B1611-08)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	03/10/25 17:00	03/11/25 10:17	Methane only
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			
(F)40 mL VOA - HCL			

5°C
10

Released By <i>aplh 2/26/25</i>	Date	Received By	Date
UPS (Shipper)	<i>2/27/25 10:07</i>	<i>[Signature]</i>	<i>2/27/25 10:07</i>
Released By	Date	Received By	Date

Client: Apex Laboratories
Attn: Cameron O'Brien
Project Name: NA
Project No.: A5B1611
Date Received: 02/27/25
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	S022707-01		S022707-02		S022707-03		S022707-04	
Client Sample I.D.:	MW-102R-20250224 (A5B1611-01)		MW-105-20250224 (A5B1611-02)		MW-104-20250224 (A5B1611-03)		MW-108R-20250224 (A5B1611-04)	
Date/Time Sampled:	2/24/25 11:44		2/24/25 14:03		2/24/25 16:00		2/24/25 11:15	
Date/Time Analyzed:	3/8/25 12:49		3/8/25 13:01		3/8/25 13:12		3/8/25 13:23	
QC Batch No.:	250308GC8A1		250308GC8A1		250308GC8A1		250308GC8A1	
Analyst Initials:	KD		KD		KD		KD	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Methane	9,300	1.0	7,100	1.0	8,300	1.0	4,500	1.0

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson
Operations Manager

Date 3-12-25

The cover letter is an integral part of this analytical report



Client: Apex Laboratories
Attn: Cameron O'Brien
Project Name: NA
Project No.: A5B1611
Date Received: 02/27/25
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	S022707-05		S022707-06		S022707-07		S022707-08	
Client Sample I.D.:	MW-107R-20250224 (A5B1611-05)		MW-101R-20250224 (A5B1611-06)		B-6R-20250224 (A5B1611-07)		B-4R-20250225 (A5B1611-08)	
Date/Time Sampled:	2/24/25 12:48		2/24/25 14:05		2/24/25 16:15		2/25/25 10:17	
Date/Time Analyzed:	3/8/25 13:34		3/8/25 13:45		3/8/25 13:59		3/8/25 14:11	
QC Batch No.:	250308GC8A1		250308GC8A1		250308GC8A1		250308GC8A1	
Analyst Initials:	KD		KD		KD		KD	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Methane	12,000	1.0	9,100	1.0	9,800	1.0	4,400	1.0

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:


Mark Johnson
Operations Manager

Date 3-12-25

The cover letter is an integral part of this analytical report



QC Batch No: 250308GC8A1

Matrix: Water

Reporting Units: ug/L

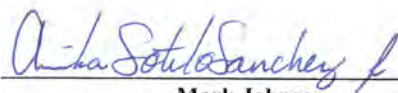
RSK 175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK				LCS		LCSD					
Date/Time Analyzed:	3/8/25 12:20				3/8/25 11:01		3/8/25 11:40					
Analyst Initials:	KD				KD		KD					
Dilution Factor:	1.0				1.0		1.0					
									Limits			
ANALYTE	Result ug/L	RL ug/L	SPIKE AMT. ug/L	Result ug/L	% Rec.	Result ug/L	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD	
Methane	ND	1.0	650	720	110	630	96	13.3	70	130	30	

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson
Operations Manager

Date

3-12-25

The cover letter is an integral part of this analytical report



**ATTACHMENT B
ANNOTATED ANNUAL GROUNDWATER AND INDOOR VAPOR MONITORING
REPORT – NORTH LOT SITE – MARCH 27, 2020**

2024-2025 GROUNDWATER
MONITORING ANNUAL REPORT
Union Station Property
411 South Jackson Street
Seattle, Washington

Farallon PN: 2644-001



A Subsidiary of SoundEarth Strategies

1011 SW Klickitat Way, Suite 104
Seattle, WA 98134
Phone: 206-381-1128
Toll Free: 800-666-2959

March 27, 2020

Ms. Stacey Lange
Property Manager
American Life, Inc.
270 South Hanford Street
Seattle, Washington 98134

**Re: Annual Groundwater and Indoor Vapor Monitoring—2020
North Lot
201 and 255 South King Street
Seattle, Washington 98134
Ecology Site ID 5378137**

Dear Ms. Lange:

EHSI-International, Inc. (EHSI), behalf of American Life, Inc., has prepared this annual groundwater and indoor vapor monitoring report for the North Lot (site) located at 201 and 255 South King Street in Seattle, Washington (Figure 1). The purpose of the groundwater monitoring and indoor air sampling conducted at the site was to document groundwater and indoor air quality pursuant to Consent Decree No. 11-2-27892-1. The groundwater and indoor air monitoring at the site were conducted in accordance with the EHSI proposal Annual Groundwater and Indoor Air Monitoring Event, dated December 30, 2019.

BACKGROUND

The site, which is located in the Pioneer district of Seattle, Washington, consists of two rectangular parcels (Parcels A and B) covering approximately 3.87 acres of land. A 2011 remedial investigation by Landau Associates noted that the site was originally undeveloped tide flats of Elliott Bay (Landau 2011a). The site was filled and developed in the late 1890s and early 1900s with a rail yard that operated until the late 1960s. The site was initially developed with streets, buildings, and railroad tracks supported on wood pilings. The land was then filled between the pilings. The fill material consisted of remnants of the former rail yard operations and construction debris. Early site structures were engine maintenance buildings, sand houses, coal houses, oil houses, and material storage areas. Several sets of railroad tracks were also present on the site. King County purchased the site in the 1970s to facilitate construction of the former Kingdome stadium adjacent to the south. The Kingdome was later replaced by the existing Century Link Field. The site was used as a parking lot from the 1970s until redevelopment with the existing high-rise buildings in 2014. King Street LP purchased the property from North Lot Development in 2013 and built the existing high-rise hotel, residential, and commercial/retail buildings with below-grade parking.

Various subsurface investigations were completed at the site between 2008 and 2014. The subsurface materials encountered consisted of heterogeneous fill material to depths up to 20 feet below ground surface (bgs). The environmental investigations documented the nature and extent and concentration of total petroleum hydrocarbons, benzene, arsenic, and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) in the media of concern and identified exposure pathways for human health and the environment.

- Environmental Consulting
- Hazardous Materials Management
- Industrial Hygiene Services
- Construction Management
- Indoor Air Quality

The site was entered into a prospective purchaser consent decree in August 2011. The eastern parcel (Parcel B) was subsequently entered into a different consent decree in 2014 that superseded the earlier prospective purchaser. Detailed discussions of past investigations, regulatory actions, cleanup, and monitoring requirements are provided in the Cleanup Action Plan (Ecology 2011), Feasibility Study (Landau 2011b), Remedial Investigation Report (Landau 2011a), and the Cleanup Action Plan Addendum (Landau 2013). The site-specific cleanup levels for the contaminants of concern in the media of concern are presented in the Cleanup Action Plan Addendum.

Remedial excavation work was done in 2015 in conjunction with the redevelopment of the site and mass removal of the soil (Rothman and Associates, Inc. 2019). A total of 57,007 tons of contaminated soil and debris was excavated and disposed of at the Republic Service facility, AAA Monroe Rock, and Waste Management for permitted landfill disposal. Following excavation, a protective cap was constructed across the site to prevent contact with remaining contaminated soil (if any). To mitigate risks associated with vapor intrusion, the building water barrier was also designed as a vapor barrier and the foundation was constructed with an impermeable seal-slab floor system.

MONITORING WELL SAMPLING

On January 21, 2020, EHSI mobilized to the site to perform annual groundwater monitoring. Prior to sampling, the five groundwater monitoring wells were opened and allowed to equilibrate to atmospheric pressure. The depth to groundwater was then measured at each well using an electronic water level sounder. Water levels were measured from a permanent mark the north side of the top of casing, and the bottom of the wells were sounded and measured for depth to water. Table A, below, summarizes the measurements.

TABLE A: EHSI GROUNDWATER LEVELS (FEET)			
NORTH LOT SWLs—JANUARY 2020			
Well ID	TOC Elevation (feet AMSL)	Depth to water (feet below TOC)	Groundwater Elevation (feet)
MW-16D	17.60	9.81	7.79
MW-18D	17.17	--	--
MW-19	17.49	5.64	11.96
MW-20	17.51	6.68	10.92
MW-21	17.17	9.15	8.45
MW-22	17.14	5.13	12.47

NOTES:

-- = not measured

AMSL = above mean sea level

SWL = static water level

TOC = top of casing

Groundwater Gradient and Direction

Figure 2 displays the groundwater levels across the site from the January 21, 2020, monitoring event. The groundwater flow across Parcel B appears to be toward the northeast at a gradient of approximately 0.02 feet/foot. The groundwater flow across Parcel A appears to be toward the west-southwest at a gradient of approximately 0.02 feet/foot.

Groundwater Sampling Procedures

Monitoring well MW-18D was not accessible for sampling due to parked vehicles. Following collection of static water levels, wells MW016D, MW-19, MW-20, MW-21, and MW-22 were sampled using a peristaltic pump and new polyethylene tubing. The polyethylene tubing was replaced between wells. Groundwater samples collected for dissolved metals analyses were field-filtered using a 0.45-micron membrane filter. A blind duplicate sample was collected for quality control purposes.

Prior to sample collection, each of the wells was purged with a flow-through cell and water quality meter. Water quality parameters of temperature, conductivity, dissolved oxygen (DO), pH, and oxidation-reduction potential (ORP) were measured during purging using a YSI Pro Plus water quality meter prior to sampling. Water samples were collected following achievement of stabilization of the water quality parameters. The groundwater sampling sheets display the measurements obtained and achievement of stabilization prior to sample collection (Attachment A).

The samples were placed in an iced cooler and kept at temperatures below 4 degrees Celsius until delivery to Friedman & Bruya, Inc. (FBI) analytical laboratory.

Analysis

Groundwater samples were tested for the following chemicals:

- Gasoline-range petroleum hydrocarbons by Washington State Department of Ecology (Ecology) Method NWTPH-Gx
- Diesel-range petroleum hydrocarbons and oil-range petroleum hydrocarbons by Ecology Method NWTPH-Dx
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by US Environmental Protection Agency (EPA) Method 8021B
- Metals by EPA Method 6020B
- cPAHs by EPA Method 8270E SIM

Groundwater Sampling Results

The groundwater sampling results reported by FBI were compared to the applicable site-specific cleanup levels for groundwater. Copies of the laboratory analytical reports are included in Attachment B. Analytical results for the primary contaminants of concern for the site are summarized in the attached Table 1. Analytical results are as follows:

- Gasoline-range petroleum hydrocarbons and BTEX were not detected above the laboratory practical quantitation limit (PQL) in groundwater samples collected from the wells.
- Diesel- and oil-range petroleum hydrocarbons were not detected above the site-specific cleanup levels.
- Cadmium, chromium, copper, lead, mercury, or zinc were not detected above the laboratory PQLs in groundwater samples.
- Arsenic was detected at concentrations ranging from non-detect to 2.05 micrograms per liter (µg/L). The reported concentrations of arsenic were below the site-specific cleanup action level.
- Analysis for cPAH compounds did not disclose results above the laboratory PQLs or the site-specific cleanup levels.

These results are consistent with previous groundwater monitoring events.

INDOOR AIR SAMPLING

During the most recent round of indoor air sampling on conducted on January 21, 2020, three samples of indoor and ambient air were collected for analysis from the subgrade parking garage area, the basement hotel office, and the roof of the north hotel tower.

The samples were analyzed for the presence of benzene by EPA Method TO-15. Results from the samples were compared to applicable Washington State Model Toxics Control Act (MTCA) Method B Indoor Air cleanup level for residential exposure.

The January 21, 2020, sampling locations are provided in Figure 3. The field sampling data sheets are included in Attachment A. Indoor air sampling locations were as follow:

- Sample 11354-03RT was collected from the rooftop of the north hotel tower and beneath an air intake for the HVAC system. This sample location was chosen to sample background ambient outdoor air entering the building.
- Sample 11354-03BP was collected at parking space 58 in the building basement parking garage. This sample location was selected to assess indoor air quality within the underground parking garage.
- Sample 11354-03HO was collected inside the basement hotel office and elevated approximately 4 feet off the floor. This sample location was chosen to assess indoor air quality in the hotel office and potentially exposed personnel there.

Indoor and ambient air sampling was conducted in accordance with the Washington State Department of Ecology (Ecology) document entitled *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action* (2018), especially Chapter 3, “VI Assessment during the Remedial Investigation (Tiers I and II).”

Air samples were collected in three certified, evacuated, 6-liter SUMMA canisters supplied by the laboratory. Sampling of indoor air began at 10:00 PM and continued for approximately 8 hours at a flow rate of approximately 125 milliliters per minute. The initial canister pressure for sample 11354-03RT was –30 inches of mercury (“ Hg) and the final pressure was –20” Hg. The initial canister pressure for sample 11354-03BP was –29” Hg and the final pressure was –22” Hg. The initial canister pressure for sample 11354-03HO was –30” Hg and the final pressure was –21.5” Hg. The collected samples were transferred to FBI under chain-of-custody control.

Indoor and Ambient Air Sampling Analytical Results and Discussion

Table B, below, provides the analytical results from indoor and ambient sampling at the site on January 21, 2020. Benzene was detected in indoor air samples at the site and in the outdoor ambient air sample collected on the rooftop. Results from the indoor and outdoor ambient air samples show that concentrations of benzene in the indoor air samples exceed the MTCA Method B indoor air cleanup level for the protection of human health via the indoor exposure pathway (Table B). However, a concentration of 0.38 $\mu\text{g}/\text{m}^3$ benzene was detected in the outdoor ambient air sample collected from the rooftop. The presence of benzene in the outdoor ambient air suggests off-site sources of benzene may impact indoor air concentrations. Following Ecology’s 2018 guidance document, the vapor intrusion contribution for indoor air is the difference between the indoor measurement and the ambient measurement. The adjusted indoor air concentration for benzene in sample 11354-03BP collected in the underground parking garage exceeds the MTCA Method B indoor air cleanup level, and the adjusted concentration of benzene in the hotel office did not exceed the MTCA Method B cleanup level.

TABLE B: AIR SAMPLING RESULTS—BENZENE			
Results Reported as $\mu\text{g}/\text{m}^3$			
Sample ID	Location	Benzene	Adjusted Benzene
11354-03RT	Rooftop	0.38 ^{fb}	--
11354-03BP	Basement Parking	1.1 ^{fb}	0.72
11354-03HO	Hotel Office	0.48 ^{fb}	0.1
CLARC Air, Method B, Carcinogen		0.32	

NOTES:

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

CLARC = Cleanup Levels and Risk Calculation

Laboratory Note:

^{fb}Analyte detected in the method blank

Benzene was detected in the method blank as a laboratory contaminant at a concentration of 0.04 $\mu\text{g}/\text{m}^3$. Following EPA guidance document *Laboratory Data Validation Function Guidelines for Evaluating Organic*

Analysis, because benzene is present in the laboratory blank, benzene indoor air results are considered estimates (EPA 1994).

The laboratory analytical report is included in Attachment B.

CONCLUSION

This report documents the 2020 groundwater and air monitoring at the site pursuant to the consent decree. The groundwater samples did not contain concentrations of contaminants of concern above site-specific groundwater cleanup levels.

The results from recent testing of indoor air indicate that benzene is only present in the indoor air sample collected from the underground parking garage at a concentration above the MTCA Method B indoor air cleanup level. The presence of the elevated concentrations of benzene in the underground parking garage can likely be attributed to the presence of cars during the sampling. The presence of the vapor barrier installed beneath the underground parking garage sub-slab likely inhibits benzene vapors from impacting indoor air quality, as results from any residual contamination that may be beneath the development. Furthermore, any potential exposure to benzene vapor in the parking garage would be acute given that tenants do not linger in the garage, the office in the underground parking garage is not continuously occupied, and an air exchange system is operated in the underground parking garage.

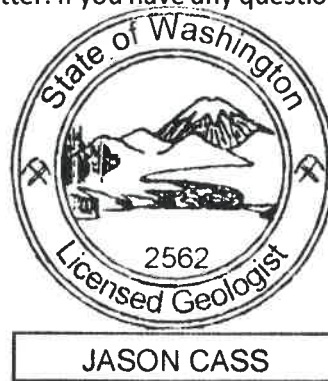
CLOSING

Thank you for the opportunity to assist you in this matter. If you have any questions regarding the project, please do not hesitate to contact us.

Respectfully submitted,



Jason Cass, LG
Senior Geologist
JasonC@ehsintl.com | (206) 731-7407



Tom Cammarata, LG, LHG
Principal Geochemist
tcammarata@soundearthinc.com | (206) 436-5940

Attachments: Figure 1, Site Location Map
Figure 2, Sample Location Map—Groundwater
Figure 3, Sample Location Map—Indoor Air for Parcel B
Table 1, Groundwater Data
A, Groundwater and Air Sampling Sheets
B, Laboratory Analytical Reports and Chain of Custody

JSC/TJC:dnm

REFERENCES

Landau Associates. 2011a. *Remedial Investigation, North Lot Development, Seattle, Washington*. May 23.

_____. 2011b. *Feasibility Study, North Lot Development, Seattle, Washington*. May 23.

_____. 2013. *Cleanup Action Plan Addendum, North Lot Development, Seattle, Washington*. September 18.

Rothman & Associates, Inc. 2019. *Cleanup Action Report, North Lot Development, 225 South King Street, Seattle, Washington*.

Washington State Department of Ecology (Ecology). 2011. *Cleanup Action Plan North Lot Redevelopment Property, Seattle, Washington*.

_____. 2018. *Draft Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action*. Publication No. 09-09-047. April.

US Environmental Protection Agency (EPA). 1994. *Laboratory Data Validation Function Guidelines for Evaluating Organic Analysis*. Publication 9240.1-27. EPA/540/R/94/082. December.



FOR ILLUSTRATIVE
PURPOSES ONLY.




SHEET/FIGURE 1	PROJECT MANAGER: J CASS	GROUNDWATER AND INDOOR AIR QUALITY EVENT 201 AND 255 SOUTH KING STREET SEATTLE, WASHINGTON SITE LOCATION MAP	 A Subsidiary of Summit Strategies 1011 SW Klickitat Way, Suite 104 Seattle, Washington 98134 Ph: 206.381.1128 Fax: 206.254.4279
	EHSI PROJECT #: 11354-01		
	PREPARED BY: F DIMALANTA		
	ISSUE DATE: 03/06/20		
	SCALE: SHOWN		

IMAGE REF: ROTHMAN & ASSOCIATES, 2018



Reported groundwater elevations have been converted to City of Seattle Vertical Datum for Direct Comparison with Groundwater Elevations at the Union Station Site.

LEGEND:

MW-X
(X.XX)
X.XX
N/A

MONITORING WELL
w/ GROUNDWATER ELEV.
TAKEN 01/21/2020

NOT ACCESSIBLE

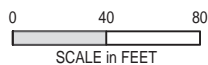
2-FOOT INTERVAL GROUNDWATER CONTOUR

SITE BOUNDARY

PARCEL BOUNDARY

GROUNDWATER FLOW DIRECTION ARROW

ALL LOCATIONS ARE APPROXIMATE. FOR ILLUSTRATIVE PURPOSES ONLY.



SHEET/FIGURE

2

PROJECT MANAGER: J CASS

EHSI PROJECT #: 11354-01

PREPARED BY: F DIMALANTA

ISSUE DATE: 03/06/20

SCALE: SHOWN

GROUNDWATER AND INDOOR AIR QUALITY EVENT

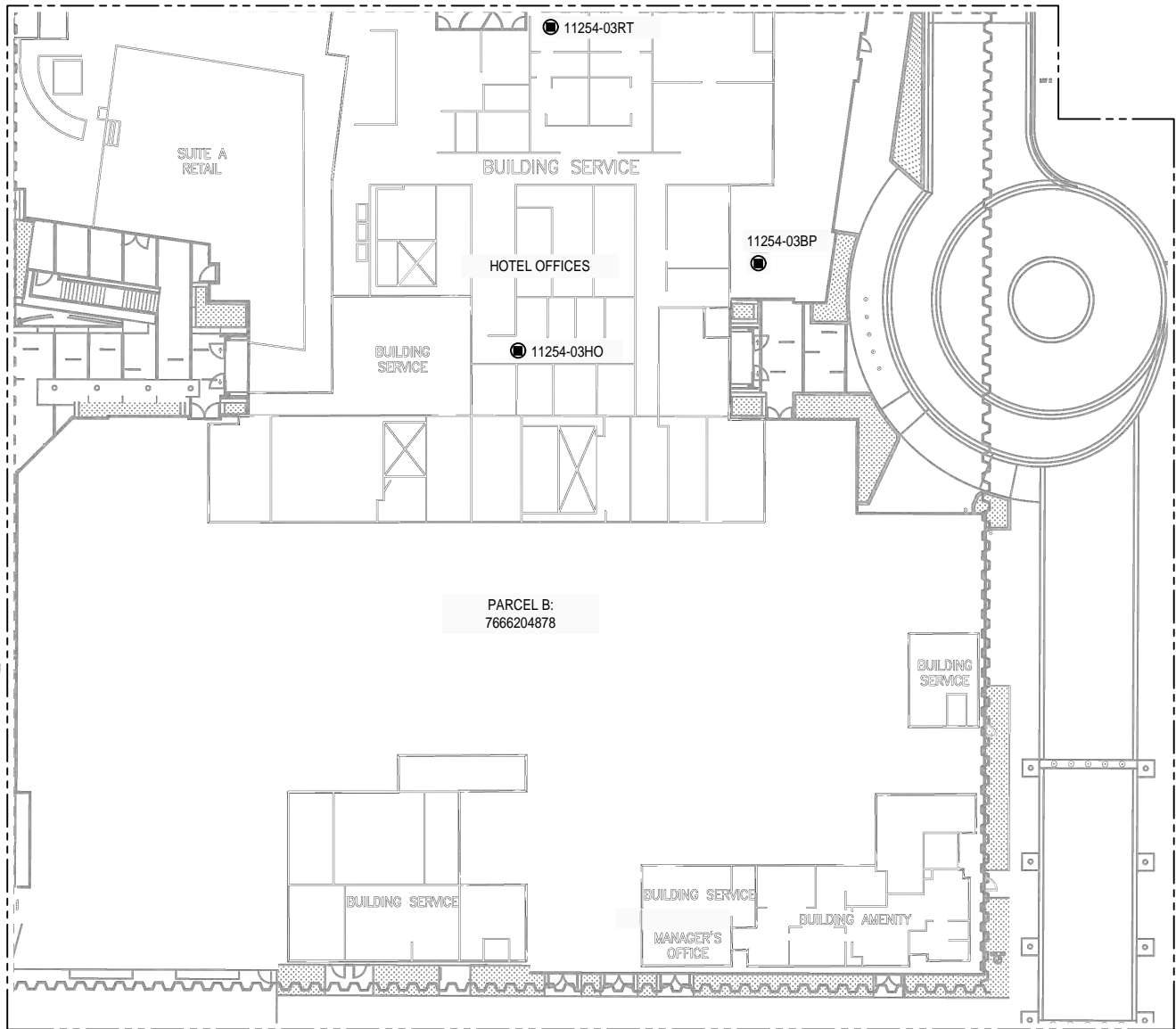
201 AND 255 SOUTH KING STREET
SEATTLE, WASHINGTON

SAMPLE LOCATION MAP -
GROUNDWATER

ehsi
A Subsidiary of **SummaCare Strategies**
1011 SW Klickitat Way, Suite 104
Seattle, Washington 98134
Ph: 206.381.1128
Fax: 206.254.4279

IMAGE REF: ROTHMAN & ASSOCIATES, 2018

SIDEWALK



ALL LOCATIONS ARE APPROXIMATE. FOR ILLUSTRATIVE PURPOSES ONLY.



LEGEND:



INDOOR AIR SAMPLE



PARCEL BOUNDARY



NORTH

SHEET/FIGURE

3

PROJECT MANAGER:	J CASS
EHSI PROJECT #:	11354-01
PREPARED BY:	F DIMALANTA
ISSUE DATE:	03/06/20
SCALE:	SHOWN

GROUNDWATER AND INDOOR AIR QUALITY EVENT
201 AND 255 SOUTH KING STREET
SEATTLE, WASHINGTON
SAMPLE LOCATION MAP -
INDOOR AIR FOR PARCEL B

ehsi
A Subsidiary of Summit Strategies
1011 SW Klickitat Way, Suite 104
Seattle, Washington 98134
Ph: 206.381.1128
Fax: 206.254.4279

Table 1
Groundwater Data
North Lot
201 and 255 South King Street
Seattle, Washington

Revised 3/27/2020

Monitoring Well ID	Sample Date	Depth to Groundwater (feet)	Groundwater Elevation (feet msl)	DRPH ⁽¹⁾	ORPH ⁽¹⁾	GRPH ⁽²⁾	Benzene ⁽³⁾	Toluene ⁽³⁾	Ethylbenzene ⁽³⁾	Total Xylenes ⁽³⁾	cPAHs ⁽⁴⁾	Arsenic ⁽⁵⁾
MW-16D TOC: 17.60'	08/04/17	10.39	7.21	<50	<250	<100	<0.8	<1	<1	<3	0.0693	<1
	11/08/17	10.12	7.48	<60	<300	<100	<0.8	<1	<1	<3	0.00655	<1
	02/08/18	9.50	8.10	<30	<150	<100	<0.8	1.0	<1	<3	0.00655	<1
	05/10/18	10.15	7.45	<50	<250	<100	<0.8	<1	<1	<3	0.00655	<1
	09/28/18	10.07	7.53	<50	<250	<100	<0.8	<1	<1	<3	0.00655	<1
	12/19/18	9.83	7.77	<50	<250	<100	<0.8	<1	<1	<3	0.00655	<1
	03/20/19	10.11	7.49	--	--	--	--	--	--	--	--	--
	06/20/19	10.15	7.45	--	--	--	--	--	--	--	--	--
MW-18D TOC: 17.17'	01/21/20	9.81	7.79	<50	<250	<100	<0.8	<1	<1	<3	0.00655	1.06
	08/02/17	11.09	6.08	<50	<250	<100	<0.8	<1	<1	<3	0.0693	7.01
	11/08/17	10.71	6.46	<50	<250	<100	<0.8	<1	<1	<3	0.00655	2.87
	02/08/18	10.64	6.53	<30	<150	<100	<0.8	1.1	<1	<3	0.00655	1.25
	05/10/18	10.75	6.42	<50	<250	<100	<0.8	<1	<1	<3	0.00655	2.44
	09/28/18	10.66	6.51	<50	<250	<100	<0.8	<1	<1	<3	0.00655	<1
	12/19/18	10.44	6.73	<50	<250	<100	<0.8	<1	<1	<3	0.00655	1.83
	03/20/19	10.79	6.38	--	--	--	--	--	--	--	--	--
MW-19 TOC: 17.49'	06/20/19	No Access	--	--	--	--	--	--	--	--	--	--
	01/21/20	No Access	--	--	--	--	--	--	--	--	--	--
	08/02/17	6.32	11.17	<50	<250	<100	<0.8	<1	<1	<3	0.0693	2.61
	11/08/17	6.18	11.31	<65	<320	<100	<0.8	<1	<1	<3	0.01335	2.14
	02/08/18	7.65	9.84	36 ^x	150	<100	<0.8	1.2	<1	<3	0.02668	2.42
	05/10/18	6.01	11.48	<50	<250	<100	<0.8	<1	<1	<3	0.019914	2.10
	09/28/18	5.99	11.50	<50	<250	<100	<0.8	<1	<1	<3	0.00655	2.10
	12/19/18	5.83	11.66	<50	<250	<100	<0.8	<1	<1	<3	0.00655	2.10
Site-Specific Cleanup Levels for Groundwater⁽⁶⁾	03/20/19	5.80	11.69	<50	<250	<100	<0.8	<1	<1	<3	0.00655	2.02
	06/20/19	5.84	11.65	<50	<250	<100	<0.8	<1	<1	<3	0.00655	2.01
	01/21/20	5.64	11.85	<50	<250	<100	<0.8	<1	<1	<3	0.00655	2.05
Site-Specific Cleanup Levels for Groundwater⁽⁶⁾				500	500	800	0.8	80	275	1,600	0.012⁽⁷⁾	5/21.3⁽⁸⁾

Table 1
Groundwater Data
North Lot
201 and 255 South King Street
Seattle, Washington

Revised 3/27/2020

Monitoring Well ID	Sample Date	Depth to Groundwater (feet)	Groundwater Elevation (feet msl)	DRPH ⁽¹⁾	ORPH ⁽¹⁾	GRPH ⁽²⁾	Benzene ⁽³⁾	Toluene ⁽³⁾	Ethylbenzene ⁽³⁾	Total Xylenes ⁽³⁾	cPAHs ⁽⁴⁾	Arsenic ⁽⁵⁾
MW-20 TOC: 17.51'	08/02/17	7.58	9.93	62 ^x	<250	<100	<0.8	<1	<1	<3	0.0693	<1
	11/08/17	7.59	9.92	<75	<380	<100	<0.8	<1	<1	<3	0.00655	<1
	02/08/18	9.45	8.06	42 ^x	<150	<100	<0.8	<1	<1	<3	0.00655	<1
	05/10/18	7.33	10.18	92 ^x	<250	<100	<0.8	<1	<1	<3	0.00655	<1
	09/28/18	7.49	10.02	<50	<250	<100	<0.8	<1	<1	<3	0.00655	<1
	12/19/18	6.69	10.82	53 ^x	<250	<100	<0.8	<1	<1	<3	0.00655	<1
	03/20/19	3.72	13.79	--	--	--	--	--	--	--	--	--
	06/20/19	6.90	10.61	--	--	--	--	--	--	--	--	--
MW-21 TOC: 17.17'	01/21/20	6.68	10.83	<50	<250	<100	<0.8	<1	<1	<3	0.00655	<1
	08/02/17	9.73	7.44	<50	<250	<100	<0.8	<1	<1	<3	0.0693	6.23
	11/08/17	9.45	7.72	<60	<300	<100	<0.8	<1	<1	<3	0.00655	4.34
	02/08/18	9.34	7.83	<30	<150	<100	<0.8	1.0	<1	<3	0.00655	1.74
	05/10/18	9.53	7.64	<50	<250	<100	<0.8	<1	<1	<3	0.00655	2.06
	09/28/18	9.43	7.74	<50	<250	<100	<0.8	<1	<1	<3	0.00655	5.42
	12/20/18	9.16	8.01	<50	<250	<100	<0.8	<1	<1	<3	0.00655	2.64
	03/20/19	9.46	7.71	<50	<250	<100	<0.8	<1	<1	<3	0.00655	1.67
	06/20/19	9.49	7.68	<50	<250	<100	<0.8	<1	<1	<3	0.00655	2.96
	01/21/20	9.15	8.02	<50	<250	<100	<0.8	<1	<1	<3	0.00655	1.47

Table 1
Groundwater Data
North Lot
201 and 255 South King Street
Seattle, Washington

Revised 3/27/2020

Monitoring Well ID	Sample Date	Depth to Groundwater (feet)	Groundwater Elevation (feet msl)	DRPH ⁽¹⁾	ORPH ⁽¹⁾	GRPH ⁽²⁾	Benzene ⁽³⁾	Toluene ⁽³⁾	Ethylbenzene ⁽³⁾	Total Xylenes ⁽³⁾	cPAHs ⁽⁴⁾	Arsenic ⁽⁵⁾
MW-22 TOC: 17.14'	08/02/17	6.51	10.63	180 ^x	<250	<100	<0.8	<1	<1	<3	0.0693	7.21
	11/08/17	6.10	11.04	330	<300	<100	<0.8	<1	<1	<3	0.00655	5.97
	02/08/18	5.27	11.87	640	310 ^x	<100	<0.8	<1	<1	<3	0.00655	1.72
	05/10/18	5.97	11.17	520^x	480 ^x	<100	<0.8	<1	<1	<3	0.00655	1.34
	09/28/18	6.43	10.71	<50	<250	<100	<0.8	<1	<1	<3	0.00655	4.58
	12/20/18	4.76	12.38	180 ^x	<250	<100	<0.8	<1	<1	<3	0.00655	1.53
	03/20/19	5.65	11.49	--	--	--	--	--	--	--	--	--
	07/14/19	6.18	10.96	170 ^x	<250	<100	<0.8	<1	<1	<3	0.00655	2.07
	01/21/20	5.13	12.01	100 ^x	<250	<100	<0.8	<1	<1	<3	0.00655	1.27
Site-Specific Cleanup Levels for Groundwater⁽⁶⁾				500	500	800	0.8	80	275	1,600	0.012⁽⁷⁾	5/21.3⁽⁸⁾

NOTES:

Laboratory analyses performed by Friedman & Bruya, Inc. of Seattle, Washington.

Analytical data presented in micrograms per liter.

TOC elevation (feet) relative to mean sea level as measured by D.R. Strong Consulting Engineers on August 18, 2017.

Bold italics indicates the concentration exceeds the cleanup level.

⁽¹⁾ Analyzed by Ecology Method NWTPH-Dx.

⁽²⁾ Analyzed by Ecology Method NWTPH-Gx.

⁽³⁾ Analyzed by EPA Method 8021B.

⁽⁴⁾ Analyzed by EPA Method 8071D SIM or 8270E SIM.

⁽⁵⁾ Analyzed by EPA Method 200.8 or 6020B.

⁽⁶⁾ Site-Specific Cleanup Levels established in Cleanup Plan Addendum, North Lot Property, Seattle, Washington, prepared by Landau Associates on September 18, 2013.

⁽⁷⁾ The total concentration that all cPAHs meet using the toxicity equivalency methodology in WAC 173-340-708(8). Italics indicate a toxicity equivalency based entirely or in part upon non-detectable concentrations of PAHs. For those PAHs that have not been detected at the site and are below detection limits, a value of 0 was used for the TEF calculations (Ecology guidance document: *Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs)*. Implementation Memorandum #10, April 20, 2015.). Data were corrected relative to the recommendations provided in the memorandum, and the table was updated in May 2018. If concentrations of detected benzo(a)pyrene and/or TEFs of additional detected PAHs exceed the cleanup level, results are presented in ***bold italic*** font.

⁽⁸⁾ A cleanup level of 5 µg/L was agreed upon by Ecology for the western portion of the site (MW-19 and MW-20). A background concentration of 21.3 µg/L will be used as the cleanup level for the eastern portion of the site (MW-16D, MW-18D, MW-21, and MW-22).

Laboratory Note:

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

< = less than

-- = not analyzed, not sampled

µg/L = micrograms per liter

cPAH = carcinogenic polycyclic aromatic hydrocarbon

DRPH = diesel-range petroleum hydrocarbons

Ecology = Washington State Department of Ecology

EPA = US Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

MSL = mean sea level

ORPH = oil-range petroleum hydrocarbons

PAH = polycyclic aromatic hydrocarbon

TEF = toxicity equivalency factor

TOC = top of casing

WAC = Washington Administrative Code



Depth to Water (feet):	btoc	Date Measured:	
Total Well Depth (feet):	btoc	Time Measured.:	
Reference Point (Surveyors notch, etc.):	North	Notes:	
Sampling Method / Pump Type:	Stabilization Parameters or 3 well vol. / peristaltic	Water Quality Meter:	
Volume of Water in Well:		3 well Volumes:	

[illegible]Page: 4 of 5



EHS-International, Inc.
1011 SW Klickitat Way, Ste. 104
Seattle, WA 98134
Tel: 206-381-1128
Fax: 206-254-4279

Date 1/21/20
EHSI Project No. 11354-037
Project Name Norfolk LUL
Technician SC
Analyte _____

SUMMA CANISTER AIR MONITORING SAMPLING SHEET

Sample #	Location	Summa ID#	Regulator ID #	Pressures Hg		On	Off	Elapsed Time (min.)	Activities/Comments
				Initial	Final				
11354-03RT	Roof top	23231		-30	-20	9:50	7:32		Rain & Wind
11354-03BP	Basement Park	18574		-25	-22	9:55	7:26		23231 wind & rain
11354-03HD	Hotel Office	21437		-30	-21.5	10:13	7:23		18574
									21437

Technician Certification:

I certify that the above samples were taken in compliance with applicable standards, regulations and project specifications.

Technician Signature Adam C. [Signature] Date: 1/21/20 Page 1 of 1

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 29, 2020

Jason Cass, Project Manager
EHSI
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on January 22, 2020 from the North Lot 11354-02, F&BI 001292 project. There are 23 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: EHSI A/P
EHS0129R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 22, 2020 by Friedman & Bruya, Inc. from the EHSI North Lot 11354-02, F&BI 001292 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>EHSI</u>
001292 -01	MW22012120
001292 -02	MW22012120 Dup.
001292 -03	MW21012120
001292 -04	MW16D012120
001292 -05	MW20012120
001292 -06	MW19012120

The 8270E laboratory control sample and laboratory control sample duplicate failed the relative percent difference for dibenz(a,h)anthracene. The analyte was not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/29/20

Date Received: 01/22/20

Project: North Lot 11354-02, F&BI 001292

Date Extracted: 01/23/20

Date Analyzed: 01/24/20

**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)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
MW22012120 001292-01	<0.8	<1	<1	<3	<100	90
MW21012120 001292-03	<0.8	<1	<1	<3	<100	94
MW16D012120 001292-04	<0.8	<1	<1	<3	<100	94
MW20012120 001292-05	<0.8	<1	<1	<3	<100	92
MW19012120 001292-06	<0.8	<1	<1	<3	<100	94
Method Blank 00-044 MB	<0.8	<1	<1	<3	<100	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/29/20

Date Received: 01/22/20

Project: North Lot 11354-02, F&BI 001292

Date Extracted: 01/23/20

Date Analyzed: 01/24/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
USING METHOD 8021B**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Surrogate (% Recovery)</u> Limit (52-124)
MW22012120 Dup. 001292-02	<0.8	<1	<1	<3	95
Method Blank 00-044 MB	<0.8	<1	<1	<3	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/29/20

Date Received: 01/22/20

Project: North Lot 11354-02, F&BI 001292

Date Extracted: 01/22/20

Date Analyzed: 01/23/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152)
MW22012120 001292-01	<50	<250	108
MW21012120 001292-03	<50	<250	115
MW16D012120 001292-04	<50	<250	125
MW20012120 001292-05	<50	<250	119
MW19012120 001292-06	<50	<250	114
Method Blank 00-196 MB	<50	<250	128

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/29/20

Date Received: 01/22/20

Project: North Lot 11354-02, F&BI 001292

Date Extracted: 01/22/20

Date Analyzed: 01/22/20

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 41-152)
MW22012120 001292-01	100 x	<250	106
MW21012120 001292-03	<50	<250	105
MW16D012120 001292-04	<50	<250	127
MW20012120 001292-05	<50	<250	110
MW19012120 001292-06	<50	<250	114
Method Blank 00-196 MB	<50	<250	114

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW22012120	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-02, F&BI 001292
Date Extracted:	01/22/20	Lab ID:	001292-01
Date Analyzed:	01/22/20	Data File:	001292-01.091
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.27
Cadmium	<1
Chromium	<1
Copper	<5
Lead	<1
Mercury	<1
Zinc	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW21012120	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-02, F&BI 001292
Date Extracted:	01/22/20	Lab ID:	001292-03
Date Analyzed:	01/22/20	Data File:	001292-03.092
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.47
Cadmium	<1
Chromium	<1
Copper	<5
Lead	<1
Mercury	<1
Zinc	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW16D012120	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-02, F&BI 001292
Date Extracted:	01/22/20	Lab ID:	001292-04
Date Analyzed:	01/22/20	Data File:	001292-04.093
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.06
Cadmium	<1
Chromium	<1
Copper	<5
Lead	<1
Mercury	<1
Zinc	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW20012120	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-02, F&BI 001292
Date Extracted:	01/22/20	Lab ID:	001292-05
Date Analyzed:	01/22/20	Data File:	001292-05.094
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Cadmium	<1
Chromium	<1
Copper	<5
Lead	<1
Mercury	<1
Zinc	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW19012120	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-02, F&BI 001292
Date Extracted:	01/22/20	Lab ID:	001292-06
Date Analyzed:	01/22/20	Data File:	001292-06.095
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	2.05
Cadmium	<1
Chromium	<1
Copper	<5
Lead	<1
Mercury	<1
Zinc	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	EHSI
Date Received:	NA	Project:	North Lot 11354-02, F&BI 001292
Date Extracted:	01/22/20	Lab ID:	I0-048 mb
Date Analyzed:	01/22/20	Data File:	I0-048 mb.067
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Cadmium	<1
Chromium	<1
Copper	<5
Lead	<1
Mercury	<1
Zinc	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID: MW22012120	Client: EHSI
Date Received: 01/22/20	Project: North Lot 11354-02, F&BI 001292
Date Extracted: 01/23/20	Lab ID: 001292-01 1/0.5
Date Analyzed: 01/24/20	Data File: 012413.D
Matrix: Water	Instrument: GCMS6
Units: ug/L (ppb)	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	98	31	160
Benzo(a)anthracene-d12	106	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	0.012
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	MW21012120	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-02, F&BI 001292
Date Extracted:	01/23/20	Lab ID:	001292-03 1/0.5
Date Analyzed:	01/24/20	Data File:	012414.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	99	31	160
Benzo(a)anthracene-d12	101	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	MW16D012120	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-02, F&BI 001292
Date Extracted:	01/23/20	Lab ID:	001292-04 1/0.5
Date Analyzed:	01/24/20	Data File:	012415.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	31	160
Benzo(a)anthracene-d12	107	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.01
Acenaphthene	0.10
Fluorene	<0.01
Phenanthrene	0.014
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	MW20012120	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-02, F&BI 001292
Date Extracted:	01/23/20	Lab ID:	001292-05 1/0.5
Date Analyzed:	01/24/20	Data File:	012416.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	104	31	160
Benzo(a)anthracene-d12	106	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	MW19012120	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-02, F&BI 001292
Date Extracted:	01/23/20	Lab ID:	001292-06 1/0.5
Date Analyzed:	01/24/20	Data File:	012417.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	105	31	160
Benzo(a)anthracene-d12	113	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	Method Blank	Client:	EHSI
Date Received:	Not Applicable	Project:	North Lot 11354-02, F&BI 001292
Date Extracted:	01/23/20	Lab ID:	00-201 mb 1/0.5
Date Analyzed:	01/24/20	Data File:	012412.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	31	160
Benzo(a)anthracene-d12	111	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/29/20

Date Received: 01/22/20

Project: North Lot 11354-02, F&BI 001292

**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: 001297-01 (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	86	65-118
Toluene	ug/L (ppb)	50	89	72-122
Ethylbenzene	ug/L (ppb)	50	91	73-126
Xylenes	ug/L (ppb)	150	85	74-118
Gasoline	ug/L (ppb)	1,000	90	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/29/20

Date Received: 01/22/20

Project: North Lot 11354-02, F&BI 001292

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

Laboratory Code: Laboratory Control Silica Gel 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	96	63-142	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/29/20

Date Received: 01/22/20

Project: North Lot 11354-02, F&BI 001292

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	104	96	63-142	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/29/20

Date Received: 01/22/20

Project: North Lot 11354-02, F&BI 001292

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 001295-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	4.49	97	98	75-125	1
Cadmium	ug/L (ppb)	5	<1	92	92	75-125	0
Chromium	ug/L (ppb)	20	<1	95	94	75-125	1
Copper	ug/L (ppb)	20	<5	89	88	75-125	1
Lead	ug/L (ppb)	10	<1	87	86	75-125	1
Mercury	ug/L (ppb)	5	<1	88	90	75-125	2
Zinc	ug/L (ppb)	50	<5	89	89	75-125	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	101	80-120
Cadmium	ug/L (ppb)	5	96	80-120
Chromium	ug/L (ppb)	20	93	80-120
Copper	ug/L (ppb)	20	94	80-120
Lead	ug/L (ppb)	10	89	80-120
Mercury	ug/L (ppb)	5	90	80-120
Zinc	ug/L (ppb)	50	89	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/29/20

Date Received: 01/22/20

Project: North Lot 11354-02, F&BI 001292

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR PAHS BY EPA METHOD 8270E SIM**

Laboratory Code: Laboratory Control Sample 1/0.5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	81	80	57-114	1
Acenaphthylene	ug/L (ppb)	1	95	89	65-119	7
Acenaphthene	ug/L (ppb)	1	87	85	66-118	2
Fluorene	ug/L (ppb)	1	108	100	64-125	8
Phenanthrene	ug/L (ppb)	1	91	88	67-120	3
Anthracene	ug/L (ppb)	1	95	95	65-122	0
Fluoranthene	ug/L (ppb)	1	94	91	65-127	3
Pyrene	ug/L (ppb)	1	92	94	62-130	2
Benz(a)anthracene	ug/L (ppb)	1	98	101	60-118	3
Chrysene	ug/L (ppb)	1	94	95	66-125	1
Benzo(b)fluoranthene	ug/L (ppb)	1	86	81	55-135	6
Benzo(k)fluoranthene	ug/L (ppb)	1	84	85	62-125	1
Benzo(a)pyrene	ug/L (ppb)	1	86	86	58-127	0
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	79	82	36-142	4
Dibenz(a,h)anthracene	ug/L (ppb)	1	65	80	37-133	21 vo
Benzo(g,h,i)perylene	ug/L (ppb)	1	68	77	34-135	12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. 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.

W4/H5/0

Phone 206-38-1128 Email _____

TURNAROUND TIME
Standard turnaround
1 RUSH
Rush charges authorized by:
SAMPLE DISPOSAL
1 Archive samples
11 Other
Default: Dispose after 30 d

TURNAROUND TIME

Rush charges authorized by:

Other_

Default: Dispose after 30 days

[illegible]

Ph. (206) 285-8282

TIME

Received by:

Five Pounds

12

Samples received at	Number of samples received	Number of samples analyzed	Number of samples not analyzed	Reason for not analyzing
1970	10	10	0	
1971	10	10	0	
1972	10	10	0	
1973	10	10	0	
1974	10	10	0	
1975	10	10	0	
1976	10	10	0	
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2057	10	10	0	
2058	10	10	0	
2059	10</			

201

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 28, 2020

Jason Cass, Project Manager
EHSI
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on January 22, 2020 from the North Lot 11354-03, F&BI 001293 project. There are 7 pages included in this report.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: EHSI A/P
EHS0128R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 22, 2020 by Friedman & Bruya, Inc. from the EHSI North Lot 11354-03, F&BI 001293 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>EHSI</u>
001293 -01	11354-03RT
001293 -02	11354-03BP
001293 -03	11354-03HO

Benzene was detected in the TO-15 method blank at a level greater than 1/10 the concentration present in the samples. The data were qualified accordingly.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	11354-03RT	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-03, F&BI 001293
Date Collected:	01/22/20	Lab ID:	001293-01 1/4.4
Date Analyzed:	01/22/20	Data File:	012122.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	95	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Benzene	0.38 fb	0.12 fb

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	11354-03BP	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-03, F&BI 001293
Date Collected:	01/22/20	Lab ID:	001293-02 1/4.5
Date Analyzed:	01/22/20	Data File:	012123.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	107	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Benzene	1.1 fb	0.36 fb

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	11354-03HO	Client:	EHSI
Date Received:	01/22/20	Project:	North Lot 11354-03, F&BI 001293
Date Collected:	01/22/20	Lab ID:	001293-03 1/5
Date Analyzed:	01/22/20	Data File:	012124.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	96	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Benzene	0.48 fb	0.15 fb

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	EHSI
Date Received:	Not Applicable	Project:	North Lot 11354-03, F&BI 001293
Date Collected:	Not Applicable	Lab ID:	00-0181 mb
Date Analyzed:	01/22/20	Data File:	012120.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	102	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Benzene	0.04 lc	0.013 lc

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/28/20

Date Received: 01/22/20

Project: North Lot 11354-03, F&BI 001293

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 001293-03 1/5 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Benzene	ppbv	<0.5	<0.5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ppbv	5	102	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

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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 ME 01-22-20

Page # 1 of 1

Report To Saxon Cars
 Company ETHS
 Address 1011 SW Klickitat way, #104
 City, State, ZIP Seattle, WA 98134
 Phone 206-381-1128 Email _____

SAMPLERS (signature) <u>Mark Carr</u>	
PROJECT NAME & ADDRESS	PO #
<u>No 1011 SW Klickitat way, #104</u>	<u>11354-03</u>
NOTES:	INVOICE TO

TURNAROUND TIME	SAMPLE DISPOSAL
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH Rush charges authorized by: _____	
<input type="checkbox"/> Archive Samples <input type="checkbox"/> Other _____	

SAMPLE INFORMATION										ANALYSIS REQUESTED				
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (°Hg)	Field Initial Time	Final Vac. (°Hg)	Field Final Time	TO15 Full Scan	TO15 cVOCs	APH	Helium	Notes
11354-03 RT	01	23231		(IA) / SG	1/21/26- 1/22/26	-30	9:55 7:13	-20	7:32	X	X			Reactive only
11354-03 BP	02	18574		(IA) / SG	/	-29	21:55	-22	7:26	X				see SC 1/22/26
11354-03 H0	03	21437		(IA) / SG	/	-30	22:13	-21.5	7:23	X				ME
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Samples received at 1800

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044
 FORMS\COC\COCTP-15.DOC

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
Reinquished by: <u>Mark Carr</u>		<u>Saxon Cars</u>		<u>ETHS</u>		<u>1/22/20</u>		<u>12:00</u>	
Received by: <u>Mark Carr</u>		<u>Mark Carr</u>		<u>ETHS</u>		<u>1/22/20</u>		<u>12:00</u>	
Reinquished by:									
Received by:									