

MEMORANDUM

To: Ron Paananen, HDR
Contract & Task Order: DA Deliverable 4.1.17
From: Joseph Sawdey, LG, LHG
Meg Strong, LG, LHG
Shannon & Wilson
Date: March 30, 2023
File Code:
Copies To: Robyn Boyd
Dave Becher
Margaret Kucharski

Subject: Groundwater Monitoring Memorandum – Quarter No. 4, Voluntary Cleanup Program NW3242, Montlake Gas Station, Seattle, Washington

Background

In 2019, the Washington State Department of Transportation (WSDOT) entered the Former Montlake Gas Station property located in Seattle, Washington (site), into the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP).

As part of the VCP application, Shannon & Wilson submitted a Remedial Investigation (RI) work plan and a subsequent RI report to Ecology, on behalf of WSDOT. The RI report included investigation data that was used to characterize the nature and extent of petroleum hydrocarbon contamination in soil and groundwater associated with historic fueling operations at the site (Shannon & Wilson, 2020).

In 2021, PBS Engineering and Environmental prepared and submitted to Ecology a Remedial Action Plan detailing the proposed remediation excavation activities (PBS, 2021a). In August and September 2021, PBS oversaw the closure and removal of the site's underground storage tanks and piping, as well as the excavation of the associated petroleum contaminated soil source zone (source zone), as documented in the Remedial Action Completion Report (PBS, 2021b). Soil compliance has been achieved at the site, as documented by confirmation sampling performed by PBS during the remedial excavation.

Groundwater compliance is currently being evaluated. On April 19 and 20, 2022, Shannon & Wilson installed additional compliance groundwater monitoring (CGM) wells at the site following Ecology recommendations (Shannon & Wilson, 2022a). The CGM well network

for the site consists of six monitoring wells: MW-2-19, MW-3-19, MW-6-22, MW-7-22, MW-8-22, and MW-9-22. The monitoring wells have been surveyed and locations are depicted in Exhibit 1. This memorandum presents the results of Quarter No. 4 CGM and documents the continued effect(s) of the source zone removal on site groundwater quality. Results of the Quarter Nos. 1, 2, and 3 CGM have been presented previously under a separate cover (Shannon & Wilson, 2022b, 2022c, and 2023).

Quarter No. 4 Groundwater Monitoring Activities

Well Gauging

On February 14, 2023, Shannon & Wilson gauged each of the CGM wells to monitor for the presence of free product and to measure groundwater elevations. Measurable free product was not encountered within any of the six CGM wells during Quarter No. 4; however, a petroleum odor and sheen were observed at MW-3-19.

Groundwater Sampling

On February 14, 2023, Shannon & Wilson purged each of the CGM wells using a peristaltic pump with a flow-through cell and a water quality meter to measure the following field parameters: temperature, oxidation-reduction potential, pH, conductivity, dissolved oxygen, turbidity, salinity, and total dissolved solids. Field parameters collected during purging of the CGM wells can be found in Attachment 1 – Groundwater Sampling Field Forms.

Upon stabilization of the field parameters during well purging (indicating steady groundwater flow to the well), groundwater samples were collected from each of the six CGM wells by discharging groundwater from the end of the peristaltic tubing into clean, laboratory-supplied containers. Collected groundwater samples were immediately put on ice and stored within an insulated cooler. Groundwater samples from each of the CGM wells were delivered to OnSite Environmental Inc., of Redmond, Washington, under standard chain-of-custody procedures and analyzed for:

- Gasoline-range petroleum hydrocarbons using Ecology’s Northwest Total Petroleum Hydrocarbon (NWTPH)-Gasoline Extended Method;
- Benzene, toluene, ethylbenzene, and xylene (BTEX) by U.S. Environmental Protection Agency (EPA) 8260 Method;
- Diesel- and oil-range petroleum hydrocarbons using Ecology’s NWTPH-Diesel Extended Method; and
- Total and dissolved arsenic by EPA Method 200.8.

For complete details on the groundwater sampling methodology, refer to the Sample Collection and Chemical Testing sections of the Work Plan (Shannon & Wilson, 2019).

Quarter No. 4 Results and Interpretation

Groundwater Elevation and Flow Directions

Measured groundwater elevations for Quarter No. 4 are reported in Exhibit 2 and displayed in Exhibit 1. Groundwater elevations in North American Vertical Datum (of 1988) during February 2023 ranged from as low as 41.6 feet (MW-3-19) to as high as 49.8 feet above mean sea level (MW-2-19). Using the measured groundwater elevations, a groundwater potentiometric surface was interpolated with associated groundwater flow directions inferred to occur perpendicular to the equipotentials comprising the potentiometric surface (see Exhibit 1). The groundwater elevation measured at MW-3-19 was again significantly lower with less seasonal fluctuation compared to the other CGM wells (see Exhibit 2). The much lower and static nature of the groundwater elevations monitored at MW-3-19 is suggestive of hydraulic isolation from the more uniform groundwater flow regime encountered across the site.

The groundwater setting at the site observed during Quarter No. 4 is consistent with that observed during the RI and previous quarterly CGM events (Shannon & Wilson, 2020, 2022b, 2022c, and 2023). In general, groundwater elevations measured in Quarter No. 4 were higher by approximately 1 to 2 feet, compared to groundwater elevations measured during Quarter 3. The higher groundwater elevations observed likely reflect shallow groundwater recharge via infiltration during the local wet season.

The groundwater elevation observed at MW-3-19 only increased 0.1 feet between Quarter No. 3 and 4 of the groundwater monitoring (November 2022 to February 2023). This relatively low fluctuation in groundwater elevation, as discussed above, suggests a groundwater flow regime in the vicinity of MW-3-19 that is hydraulically isolated from the other CGM wells.

The estimated groundwater flow direction for Quarter No. 4 is uniformly north to northwest, consistent with previous monitoring events when MW-3-19 was included as part of the potentiometric surface (Shannon & Wilson, 2022b).

Groundwater Sampling Results

The laboratory analytical results for collected groundwater samples are summarized in Exhibit 3. The laboratory report is included as Attachment 2. Exhibit 1 indicates which monitoring wells had groundwater sample contaminant concentrations that exceed applicable cleanup levels (CULs) during the February 2023 sampling event.

Groundwater Sampling Interpretation

Groundwater samples collected from the CGM wells located within the property boundary of the site (MW-2-19, MW-6-22, MW-7-22, MW-8-22, and MW-9-22) had non-detectable concentrations of petroleum hydrocarbons (gasoline-, diesel-, and oil-range) and BTEX. MW-8-22 and MW-9-22 had detectable concentration of dissolved arsenic and total arsenic, respectively; however, the concentrations were below applicable CULs.

Groundwater samples from one CGM well, MW-3-19, contained contaminant concentrations that exceeded applicable CULs (Exhibits 1 and 3). During Quarter Nos. 2 and 3, groundwater

samples from MW-3-19 were not collected because measurable free product was detected in the well. During Quarter No. 4, a petroleum sheen was observed but with no measurable product, and thus, groundwater samples were collected and analyzed. Concentrations of gasoline- and diesel-range petroleum hydrocarbons and total arsenic increased at MW-3-19 compared to Quarter No. 1 (May 2022). Oil-range petroleum hydrocarbon and BTEX concentrations decreased since Quarter No. 1. MW-3-19 is the most downgradient CGM well at the site, the furthest from the remedial excavation area, and is located outside the property boundary of the site. The contaminant concentrations observed at MW-3-19 may be related to the observed degree of hydraulic isolation in the vicinity of MW-3-19, which would impact timing for the remedial action to manifest near the this well.

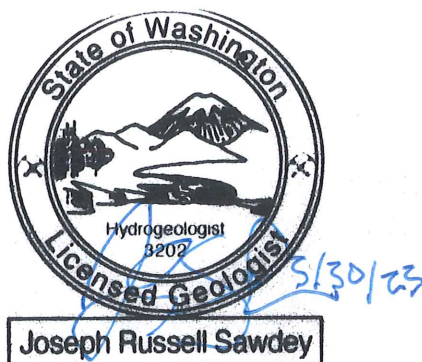
The concentration of gasoline-range petroleum hydrocarbons measured in the CGM wells over time have been summarized in trend plots, included as Exhibit 4.

The concentration of diesel-range plus oil-range petroleum hydrocarbons measured in the CGM wells over time have been summarized in trend plots, included as Exhibit 5.

We appreciate this opportunity to provide environmental services to you for this project. If you have questions regarding this letter, please contact the undersigned at (206) 632-8020.

Sincerely,

Shannon & Wilson



Joseph Sawdey, LG, LHG
Senior Hydrogeologist

Meg Strong, LG, LHG
Senior Consultant

JXS:MJS:JNB/jxs:mrh

References

- PBS Engineering and Environmental, 2021a, Remedial action plan, Montlake Gas Station, State Route 520 Montlake to Lake Washington Interchange and Bridge Replacement Project, Seattle, Washington: Report prepared by PBS, Seattle, Wash., 41221.003, for Graham Contracting Ltd, Bellevue, Wash., March Seattle, Wash., March.
- PBS Engineering and Environmental, 2021b, Remedial action completion report, Montlake Gas Station, State Route 520 Montlake to Lake Washington Interchange and Bridge Replacement Project, Seattle, Washington: Report prepared by PBS, Seattle, Wash., 41221.003, for Graham Contracting Ltd., Bellevue, Wash., December.
- Shannon & Wilson, 2019, Data gaps investigation work plan/sampling and analysis plan for Montlake Gas Station, SR 520 Bridge Replacement and HOV Program, Seattle, Washington: Workplan prepared by Shannon & Wilson, Seattle, Wash., 21-1-22242-101, for Washington State Department of Transportation, July.
- Shannon & Wilson, 2020, Remedial investigation report for Montlake Gas Station, SR 520 Bridge Replacement and HOV Program, Seattle, Washington: Report prepared by Shannon & Wilson, Seattle, Wash., 21-1-22242-104, for Washington State Department of Transportation, March.
- Shannon & Wilson, 2022a, Compliance groundwater monitoring well installation exhibit for Montlake Gas Station, SR 520 Bridge Replacement and HOV Program, Seattle, Washington: Exhibit prepared by Shannon & Wilson, Seattle, Wash., 21-1-22242-104, for Washington State Department of Transportation, May 2022.
- Shannon & Wilson, 2022b, Groundwater monitoring memorandum – quarter no. 1, voluntary cleanup program NW3242, Montlake Gas Station, SR 520 Bridge Replacement and HOV Program, Seattle, Washington: Memorandum prepared by Joseph Sawdey and Meg Strong, Shannon & Wilson, Seattle, Wash., 21-1-22242-104, for Ron Paananen, HDR, June 27.
- Shannon & Wilson, 2022c, Groundwater monitoring memorandum – quarter no. 2, voluntary cleanup program NW3242, Montlake Gas Station, SR 520 Bridge Replacement and HOV Program, Seattle, Washington: Memorandum prepared by Joseph Sawdey and Meg Strong, Shannon & Wilson, Seattle, Wash., 21-1-22242-104, for Ron Paananen, HDR, October 6.
- Shannon & Wilson, 2023, Groundwater monitoring memorandum – quarter no. 3, voluntary cleanup program NW3242, Montlake Gas Station, SR 520 Bridge Replacement and HOV Program, Seattle, Washington: Memorandum prepared by Joseph Sawdey and Meg Strong, Shannon & Wilson, Seattle, Wash., 21-1-22242-104, for Ron Paananen, HDR, January 5.

Exhibits

Exhibit 1 – Groundwater Potentiometric Surface Map with Groundwater Elevation

Exhibit 2 – Groundwater Level Measurements

Exhibit 3 – Summary of Groundwater Analytical Results

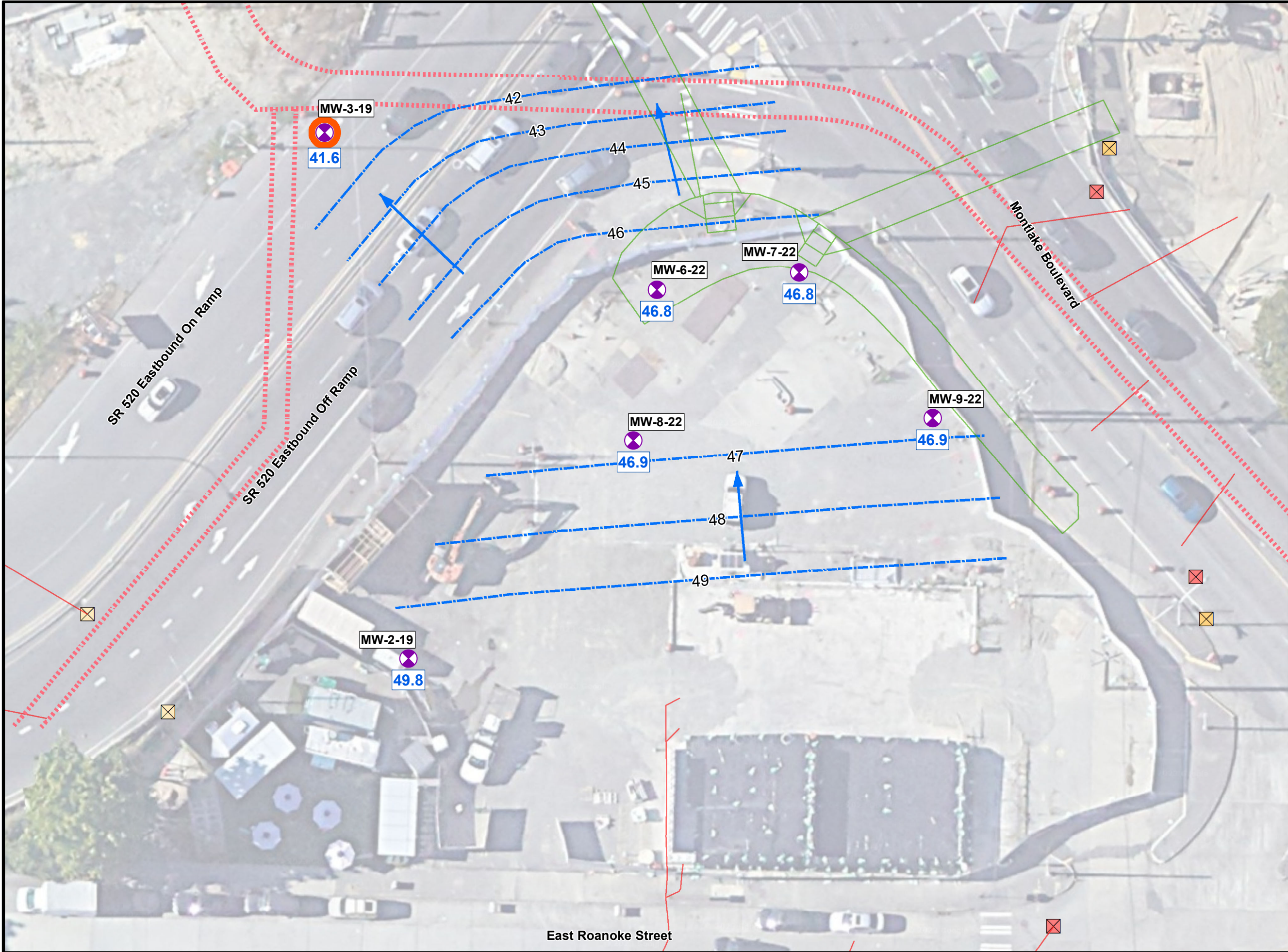
Exhibit 4 – Groundwater Concentration Trend Plots – Gasoline

Exhibit 5 – Groundwater Concentration Trend Plots – Diesel Plus Oil

Attachments

Attachment 1 – Groundwater Sampling Field Forms

Attachment 2 – Laboratory Report and Chain-of-Custody Form



LEGEND

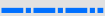
Monitoring Well Location
and Designation



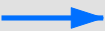
Well With Groundwater Concentrations
Exceeding Applicable Cleanup Levels



Interpolated Groundwater Elevation
(Feet, NAVD 88)



Interpolated Groundwater Flowline



Groundwater Elevation at
Monitoring Well
(February 2023)

46.9

Existing Utility - Catch Basin



Existing Utility - Inlet



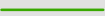
Existing Utility - Wastewater Pipe



Existing Utility - Sewer or
Combined-Sewer Line



Approximate Post Construction
Crosswalk/Sidewalk Configuration



NOTE:

All Existing Utility data should
be considered approximate.
City of Seattle, 2019.



0 40
Feet

SR 520 Bridge Replacement and HOV Program
SR 520 I-5 to Montlake -I/C and Bridge Replacement
Groundwater Monitoring Report No. 4
2625 East Montlake Place East
Seattle, WA

**GROUNDWATER
POTENTIOMETRIC SURFACE MAP
WITH GROUNDWATER ELEVATION**
March 2023 21-1-22242-104

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

EXHIBIT 1

EXHIBIT 2
GROUNDWATER LEVEL MEASUREMENTS

SR 520 Bridge Replacement and HOV Program
SR 520 I-5 to Montlake - I/C and Bridge Replacement
Groundwater Monitoring Memorandum - Quarter No. 4

Montlake Gas Station Monitoring Well	Screened Interval (feet bgs)	Surveyed Monitoring Well Elevation ¹ (feet)	TOC Elevation (feet)	Date	Depth to Water (feet below TOC)	Groundwater Elevation (feet)
MW-2-19	10 to 20	58.87	58.12	10/17/2019	10.1	48.0
				5/2/2022	8.3	49.8
				8/16/2022	9.4	48.7
				11/15/2022	9.9	48.2
				2/14/2023	8.4	49.8
MW-3-19	10 to 25	59.29	59.01	10/17/2019	17.4	41.6
				5/2/2022	17.3	41.8
				8/16/2022	17.4	41.6
				11/15/2022	17.5	41.5
				2/14/2023	17.5	41.6
MW-6-22	11 to 26	59.71	59.36	5/2/2022	12.2	47.2
				8/16/2022	13.9	45.5
				11/15/2022	14.9	44.4
				2/14/2023	12.5	46.8
MW-7-22	10.5 to 25.5	59.68	59.18	5/2/2022	12.1	47.1
				8/17/2022	13.8	45.4
				11/15/2022	14.8	44.4
				2/14/2023	12.4	46.8
MW-8-22	10.5 to 25.5	58.90	58.55	5/2/2022	11.3	47.2
				8/16/2022	13.0	45.6
				11/15/2022	14.0	44.5
				2/14/2023	11.6	46.9
MW-9-22	10 to 25	59.93	59.58	5/2/2022	12.4	47.2
				8/17/2022	14.1	45.5
				11/15/2022	15.1	44.5
				2/14/2023	12.7	46.9

NOTES:

1 Monitoring well elevation was surveyed from the center of the well monument lid.
The reference vertical datum is the North American Vertical Datum (of 1988).
bgs = below ground surface; TOC = top of casing

EXHIBIT 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

		Petroleum Hydrocarbons (µg/L)			Volatile Organic Compounds (µg/L) ³					Metals (µg/L) ⁴	
Montlake Gas Station Monitoring Well	Sample Date	Gasoline Range Organics ¹	Diesel Range Organics ²	Lube Oil Range Organics ²	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Arsenic	Dissolved Arsenic
MW-2-19	10/17/2019	<100	<260	<420	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	5/2/2022	<100	<180	<240	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	8/16/2022	<100	<130	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	11/15/2022	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	2/14/2023	<100	<200	<200	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
MW-3-19 ⁵	10/17/2019	1400	630	660	98	<4	24	9.3	1.1	17	7.4
	5/2/2022	5800	1300 M	500	170	<10	190	220	3.2	16	11
	2/14/2023	7300	2100 M	320	140	<5.0	72	94	2.3	22	13
MW-6-22	5/2/2022	<100	210	330	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	8/16/2022	<100	<130	290	<0.20	<1.0	<0.20	<0.40	<0.20	6.3	4.5
	11/15/2022	<100	<200	<200	<0.20	<1.0	<0.20	<0.40	<0.20	7.3	4.6
	2/14/2023	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
MW-7-22	5/2/2022	<100	<170	<230	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	8/17/2022	<100	<130	250	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	11/15/2022	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	11/15/2022	<100	<210	220	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	2/14/2023	<100	<200	<200	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
MW-8-22	5/2/2022	<100	<170	<220	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	5/2/2022	<100	<170	240	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	8/16/2022	<100	<130	360	<0.20	<1.0	<0.20	<0.40	<0.20	6.6	3.8
	8/16/2022	<100	<140	340	<0.20	<1.0	<0.20	<0.40	<0.20	6.5	4.3
	11/15/2022	<100	<200	<200	<0.20	<1.0	<0.20	<0.40	<0.20	6	5.7
	2/14/2023	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	4.2	<3.0
	2/14/2023	<100	<200	<200	<0.20	<1.0	<0.20	<0.40	<0.20	4.4	<3.0
MW-9-22	5/2/2022	<100	<160	<220	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	8/17/2022	<100	1900	<300	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	11/15/2022	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	2/14/2023	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	3.0
Trip Blank	5/2/2022	<100	--	--	<0.20	<1.0	<0.20	<0.40	<0.20	--	--
	8/18/2022	<100	--	--	<0.20	<1.0	<0.20	<0.40	<0.20	--	--
	11/15/2022	<100	--	--	<0.20	<1.0	<0.20	<0.40	<0.20	--	--
	2/14/2023	<100	--	--	<0.20	<1.0	<0.20	<0.40	<0.20	--	--
MTCA Method A CUL for Unrestricted Land Use		1000/800*	500	500	5.00	1000	700	1000†	1000†	20§	20§

NOTES:

1 Gasoline-range petroleum hydrocarbons using Washington State Department of Ecology's (Ecology's) NWTPH-Gasoline Extended Method

2 Diesel- and oil-range petroleum hydrocarbons using Ecology's NWTPH-Diesel Extended Method

3 Volatile organic compounds by EPA Method 8260D

4 Total and dissolved arsenic by EPA Method 200.8

5 In August and November 2022, MW-3-19 had measurable free product and was not sampled.

Highlighted text indicates the analyte was detected above the MTCA Method A cleanup level.

Bold text indicates the analyte was detected above laboratory practical quantitation limit.

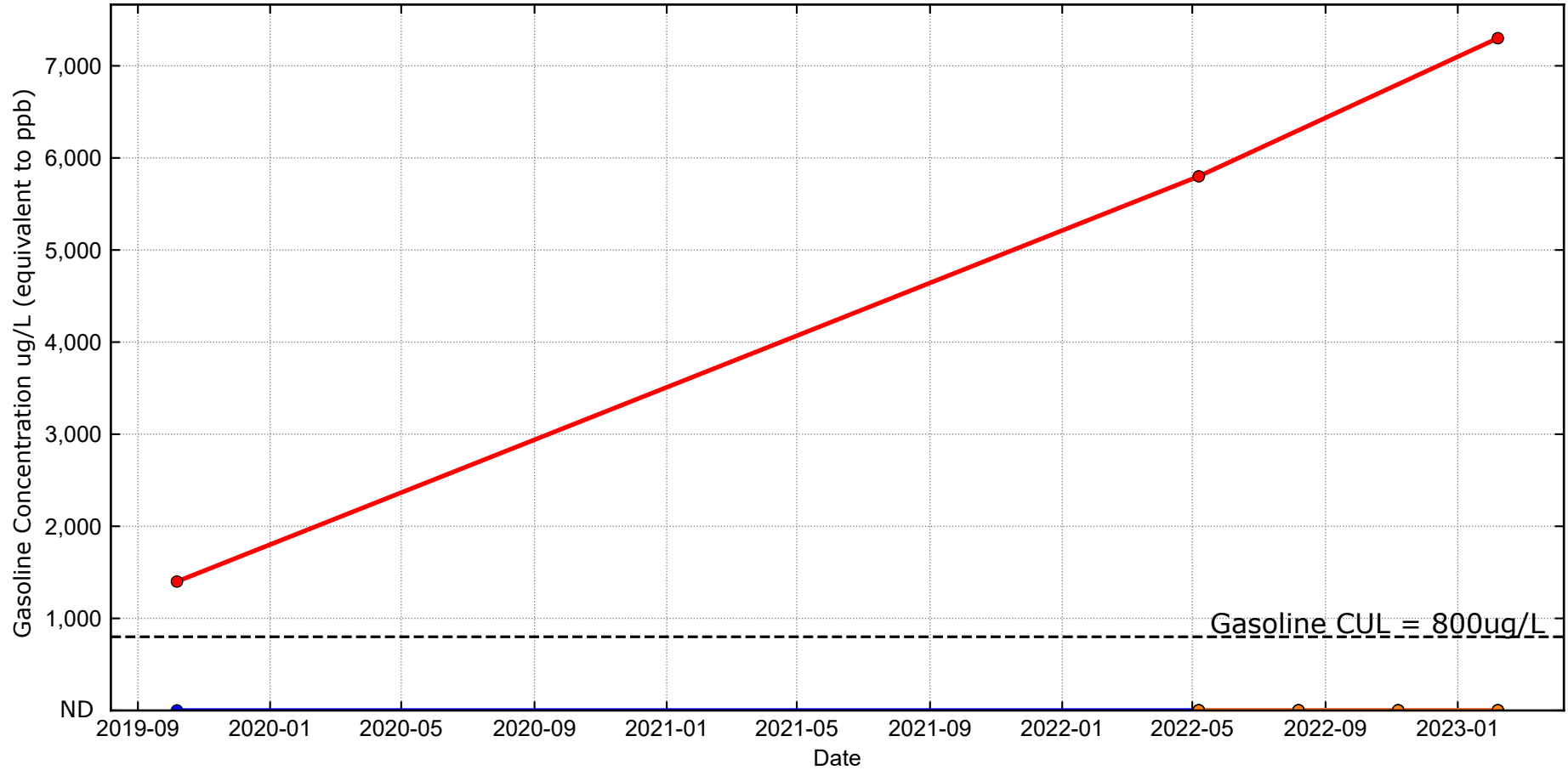
M flag indicates hydrocarbons in the gasoline range are impacting the diesel range result.

* Cleanup level (CUL) for gasoline-range organics is 1,000 micrograms (µg) without the presence of benzene and 800 µg with the presence of benzene.

† MTCA Method A CUL for total xylenes is used because a MTCA Method A CUL is not established for the isomers of m-, p-, or o-xylene.

§ Site specific CUL for arsenic (total and dissolved) based on statistical analysis of natural background levels of arsenic in groundwater.

-- = not analyzed; < = not detected above laboratory reporting limit; µg/L = micrograms per liter; CUL = cleanup level; EPA = U.S. Environmental Protection Agency; MTCA = Model Toxics Control Act; NWTPH = Northwest Total Petroleum Hydrocarbon



Note: Gasolione concentrations not detected in MW-2-19, MW-6-22, MW-7-22, MW-8-22, or MW-9-22

SR 520 Bridge Replacement and HOV Program
I-5 to Montlake - I/C and Bridge Replacement
Groundwater Monitoring Report - Quarter No. 4

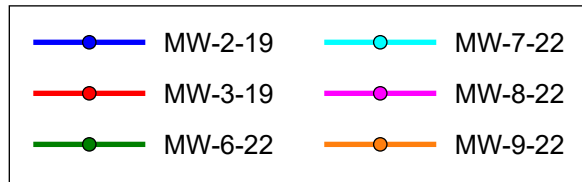
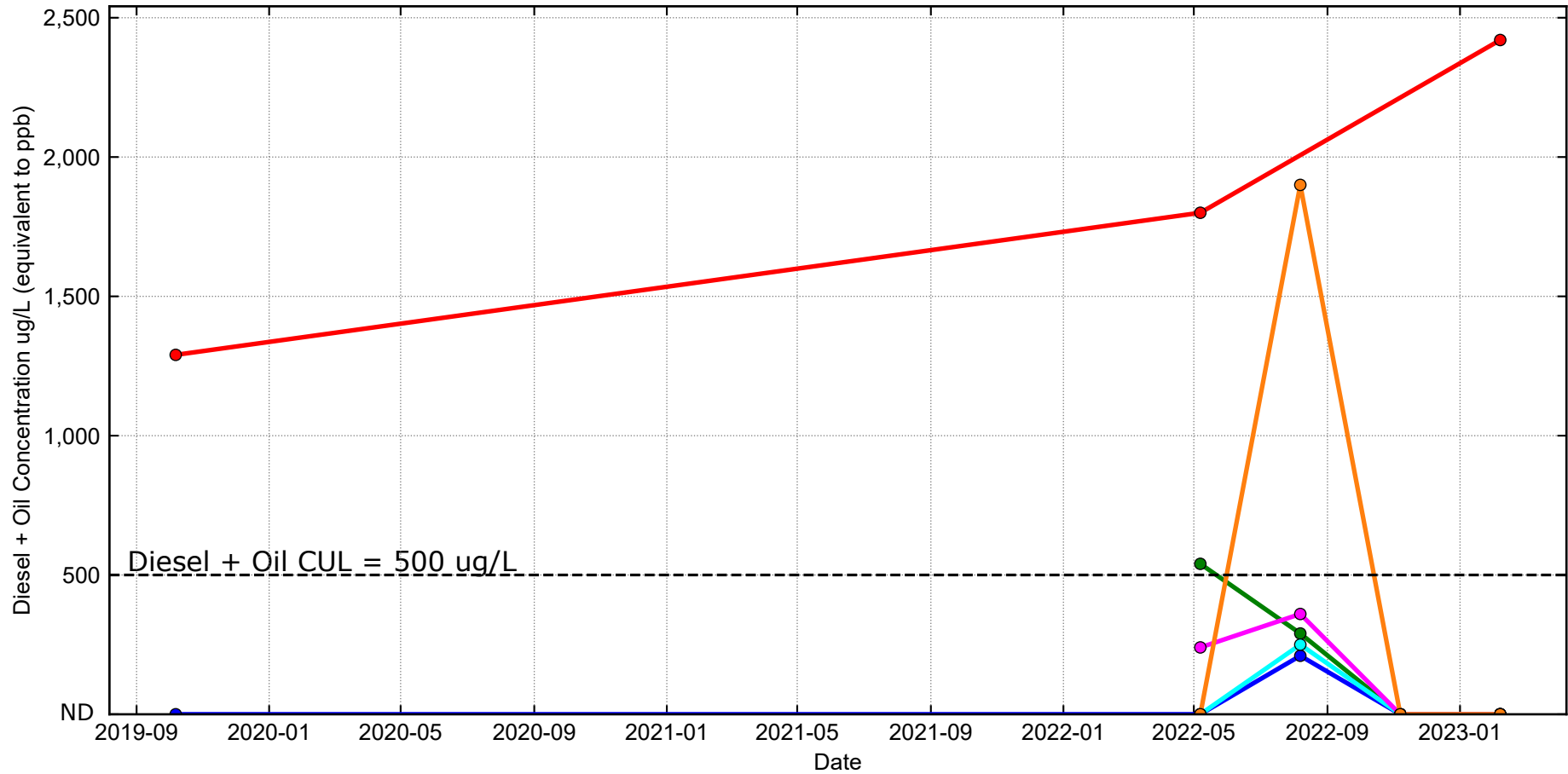
Groundwater Concentration Trend Plots - Gasoline

March 2023

21-1-22242-104

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Geotechnical and Environmental Consultants

Exhibit 4



SR 520 Bridge Replacement and HOV Program
I-5 to Montlake - I/C and Bridge Replacement
Groundwater Monitoring Report - Quarter No. 4

Groundwater Concentration Trend Plot - Diesel plus Oil

March 2023

21-1-22242-104

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Geotechnical and Environmental Consultants

Exhibit 5

Attachment 1

Contents:

Groundwater Sampling Field Forms (8 Sheets)



Project:

Montlake Gas Station

JOB NO.: 21-1-22242-112

Conducted by: MZH

Weather: Sunny, High 30s

WATER LEVEL MEASUREMENTS

Location ID	Date	Time	Measuring Point (MP)	Depth to Water from MP (feet)	VWP Reading Digits	VWP Reading °C	Comments (i.e. pressure change when opened, inaccessibility, etc.)
MW-2-19	2/14/23	0828	NDC	8.35			BLT 996
MW-7-22		0830		12.42			BNV 408
MW-8-22		0832		11.62			BNV 406
MW-6-22		0835		12.53			BNV 407
MW-9-22		0837		12.66			BNV 409
MW-3-19		0855		17.45			BLT 987
L7	Petroleum	odor when opening	Well cap:	No measurable thickness of using			
		interface probe but a	sheen indication.	Petroleum on top of oil			
		probe after gauging.	No visible oil sheen	No visible oil layer			
		in bailer					

Comments:

Checked By:

Date:

WATER SAMPLING LOG

JOB NO. 21-1-22242-112
PAGE 1 OF 1

OWNER / LOCATION: Former Montlake Gas Station
WELL NO: NW-2-19 SAMPLE NO: NW-2-19:021423 ECOLOGY TAG NO: BLT 996
WEATHER: Sunny, high 3DS
WELL SITE CONDITIONS / MP DEFINITION: North PVC Rim
(MP is typically the north PVC rim)

DATE: 2/14/2021
DUPLICATE NO: _____
MS / MSD? Yes ☐ No ☒

SAMPLING DATA

TIME STARTED: 0920 1000
PID HEAD SPACE: 0.0 ppm
MP DISTANCE ABOVE / BELOW GROUND SURFACE: 0.8 ft.
TOTAL DEPTH OF WELL BELOW MP: 19.26 ft.
DTW BELOW MP: 8.35 ft.
WATER COLUMN IN WELL: 10.91 ft.
CASING DIAMETER: 2 in.
GALLONS PER FOOT: 0.16
GALLONS IN WELL: 1.75 2325.24
TIME PURGING STARTED: 1005

LNAFL THICKNESS: _____ ft. Sample ☐
DNAFL THICKNESS: _____ ft. Sample ☐

SAMPLE CONTAINERS			
Number	Size	Type	Pres.

FIELD PARAMETERS

GALLONS REMOVED	TEMP. (C)	<u>ORP</u> EPR (mV)	pH	COND. (umhos / cm)	D.O. (mg / L)	TURBIDITY (NTU)	SALINITY (‰) PPT	TDS (g / L)	COLOR	TIME
Initial	12.57	109.5	7.89	541.22	4.34	15.69	0.27	0.37	clear	1006
0.5	12.94	109.7	7.87	544.81	0.20	6.87	0.27	0.35	clear	1009
0.8	13.48	99.9	7.85	545.97	0.03	5.23	0.27	0.36	clear	1012
1.5	13.41	91.1	7.84	556.23	0.01	3.35	0.27	0.36	clear	1015
1.5	13.36	85.4	7.83	559.65	0.00	1.66	0.27	0.36	clear	1018
1.75	13.43	80.0	7.82	565.74	0.00	1.03	0.28	0.37	clear	1021
2.0	13.38	78.6	7.83	572.34	0.00	1.21	0.28	0.37	clear	1024
After Sampling										

EVACUATION METHOD: Peristaltic Pump
PUMP INTAKE DEPTH (if applicable): Mid-screen
PURGE WATER DISPOSITION (e.g., drum #): Drum on site
WATER QUALITY (e.g., sheen, odor): No odor or sheen
WATER QUALITY METER(S) USED; CALIBRATION DATE / TIME: Aqua Troll 500 ; 2/14/23 @ 0930
SAMPLING METHOD: EPA Low Flow SAMPLE TIME: 1030
SAMPLING PERSONNEL: MRH DUPLICATE "TIME": _____
REMARKS (e.g., recovery rate): _____

TIME COMPLETED: 1050

WELL CASING VOLUMES

Gal / ft 1-1/4" = 0.077 2" = 0.16 3" = 0.37 4" = 0.65
1-1/2" = 0.10 2-1/2" = 0.24 3-1/2" = 0.50 6" = 1.46

Filename: J:\Support\Library\FIELD AND LAB FORMS\AutoCAD\Water Sampling Log.dwg Date: 02-10-2011 Logint: sac

DTW

WATER SAMPLING LOG

JOB NO. 21-1-22242-112
PAGE 1 OF 1

OWNER / LOCATION: Former Montlake Gas Station
WELL NO: MW-3-19 SAMPLE NO: MW-3-19-021423 ECOLOGY TAG NO: BLT 987
WEATHER: cloudy, LOW 40s
WELL SITE CONDITIONS / MP DEFINITION: North PVC Rim
(MP is typically the north PVC rim)

DATE: 2/14/23
DUPLICATE NO: _____
MS / MSD? Yes ☐ No ☒

SAMPLING DATA

TIME STARTED: 1440
PID HEAD SPACE: 42.2 ppm
MP DISTANCE ABOVE / BELOW GROUND SURFACE: _____ ft.
TOTAL DEPTH OF WELL BELOW MP: 24.79 ft.
DTW BELOW MP: 17.45 ft.
WATER COLUMN IN WELL: 7.34 ft.
CASING DIAMETER: 2 in.
GALLONS PER FOOT: 0.16
GALLONS IN WELL: 1.174
TIME PURGING STARTED: 1445

LNA PL THICKNESS: Shewn ft. Sample ☐
DNA PL THICKNESS: _____ ft. Sample ☐

SAMPLE CONTAINERS			
Number	Size	Type	Pres.

FIELD PARAMETERS

GALLONS REMOVED	TEMP. (C°)	0.0 EFP (mV)	pH	COND. (umhos / cm)	D.O. (mg / L)	TURBIDITY (NTU)	SALINITY (‰ PSU)	TDS (g / L)	COLOR	TIME
Initial	12.36	15.7	7.52	1,177.2	3.77	7.40	0.59	0.76	clear	1446
0.4	13.02	-25.9	7.55	1,160.6	0.07	0.36	0.58	0.76	clear	1449
0.6	12.87	-33.5	7.57	1,136.3	0.04	0.07	0.57	0.74	clear	1452
0.75	12.72	-41.0	7.59	1,094.4	0.01	0.00	0.54	0.71	clear	1455
0.9	12.74	-43.9	7.60	1,049.0	0.00	0.00	0.52	0.68	clear	1459
1.15	12.70	-46.6	7.60	1,043.0	0.00	0.00	0.52	0.68	clear	1501
1.25	12.69	-50.0	7.61	1,031.9	0.00	0.00	0.51	0.67	clear	1504
After Sampling										

EVAUATION METHOD: Peristaltic Pump
PUMP INTAKE DEPTH (if applicable): Mid-screen (21' bgs)
PURGE WATER DISPOSITION (e.g., drum #): Drum on site
WATER QUALITY (e.g., sheen, odor): Petroleum odor - Very slight sheen on purge water in bucket
WATER QUALITY METER(S) USED; CALIBRATION DATE / TIME: Aqua Troll 500 ; 2/14/23 @ 0930
SAMPLING METHOD: EPA Low Flow SAMPLE TIME: 1510
SAMPLING PERSONNEL: MRH DUPLICATE TIME: _____
REMARKS (e.g., recovery rate): _____

TIME COMPLETED: 1540

WELL CASING VOLUMES

Gal / ft 1-1/4" = 0.077 2" = 0.16 3" = 0.37 4" = 0.65
1-1/2" = 0.10 2-1/2" = 0.24 3-1/2" = 0.50 6" = 1.46

WATER SAMPLING LOG

JOB NO. 21-1-22242-112
PAGE 1 OF 1

OWNER / LOCATION: Former Montlake Gas Station
WELL NO: MW-6-22 SAMPLE NO: MW-6-22-021423 ECOLOGY TAG NO: BNV 407
WEATHER: Mostly Cloudy, Mid 40s
WELL SITE CONDITIONS / MP DEFINITION: North PVC Rim
(MP is typically the north PVC rim)

DATE: 2/14/2023
DUPLICATE NO: _____
MS / MSD? Yes ☐ No ☐

SAMPLING DATA

TIME STARTED: 1210
PID HEAD SPACE: 0.0 ppm
MP DISTANCE ABOVE / BELOW GROUND SURFACE: 0.35 ft.
TOTAL DEPTH OF WELL BELOW MP: 25.98 ft.
DTW BELOW MP: 12.53 ft.
WATER COLUMN IN WELL: 13.45 ft.
CASING DIAMETER: 2 in.
GALLONS PER FOOT: 0.16
GALLONS IN WELL: 2.15
TIME PURGING STARTED: 1211

LNA PL THICKNESS: _____ ft. Sample ☐
DNA PL THICKNESS: _____ ft. Sample ☐

Number	Size	Type	Pres.

FIELD PARAMETERS

GALLONS REMOVED	TEMP. (C°)	ORP (mV)	pH	COND. (umhos / cm)	D.O. (mg / l)	TURBIDITY (NTU)	SALINITY (‰)	TDS (g / l)	COLOR	TIME
Initial	13.25	20.1	7.73	680.47	0.80	0.33	0.33	0.46	clear	1212
0.5	13.23	11.6	7.75	669.60	0.42	0.01	0.33	0.44	clear	1215
1.0	13.30	6.8	7.75	672.88	0.37	0.03	0.33	0.44	clear	1218
1.5	13.51	2.3	7.74	674.43	0.22	0.00	0.33	0.44	clear	1221
2.0	13.62	-1.4	7.75	682.06	0.12	0.41	0.33	0.44	clear	1224
2.5	13.73	-7.9	7.75	682.46	0.06	0.00	0.33	0.45	clear	1227
2.8	13.94	-12.1	7.74	687.19	0.05	0.00	0.34	0.45	clear	1230
3.1	13.92	-14.6	7.75	687.69	0.03	0.00	0.34	0.45	clear	1233
3.4	13.94	-16.1	7.74	685.16	0.03	0.00	0.34	0.45	clear	1236
After Sampling										

EVACUATION METHOD: Peristaltic Pump
PUMP INTAKE DEPTH (if applicable): Mid-screen
PURGE WATER DISPOSITION (e.g., drum #): Drum on site
WATER QUALITY (e.g., sheen, odor): No odor or sheen
WATER QUALITY METER(S) USED; CALIBRATION DATE / TIME: Aqua Troll 500 ; 2/14/23 @ 0930
SAMPLING METHOD: EPA Low Flow SAMPLE TIME: 1240
SAMPLING PERSONNEL: MRH DUPLICATE TIME: _____
REMARKS (e.g., recovery rate): _____

TIME COMPLETED: 1250

WELL CASING VOLUMES

Gal / ft 1-1/4" = 0.077 2" = 0.16 3" = 0.37 4" = 0.65
1-1/2" = 0.10 2-1/2" = 0.24 3-1/2" = 0.50 6" = 1.46

WATER SAMPLING LOG

JOB NO. 21-1-22242-112
PAGE 1 OF 2

OWNER / LOCATION: Former Montlake Gas Station DATE: 2/14/23
WELL NO: NW-7-22 SAMPLE NO: NW-7-22-021423 ECOLOGY TAG NO: BNV 400 DUPLICATE NO: _____
WEATHER: Sunny, Mid 40s MS / MSD? Yes ☐ No ☐
WELL SITE CONDITIONS / MP DEFINITION: North PVC Rim
(MP is typically the north PVC rim)

SAMPLING DATA

TIME STARTED: 1050 L NAPL THICKNESS: _____ ft. Sample ☐
PID HEAD SPACE: 0.0 ppm D NAPL THICKNESS: _____ ft. Sample ☐
MP DISTANCE ABOVE / BELOW GROUND SURFACE: 0.5 ft.
TOTAL DEPTH OF WELL BELOW MP: 25.37 ft.
DTW BELOW MP: 12.42 ft.
WATER COLUMN IN WELL: 12.95 ft.
CASING DIAMETER: 2 in.
GALLONS PER FOOT: 0.16
GALLONS IN WELL: 2.072
TIME PURGING STARTED: 1053

SAMPLE CONTAINERS			
Number	Size	Type	Pres.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

FIELD PARAMETERS

GALLONS REMOVED	TEMP. (C°)	ORP (mV)	pH	COND. (umhos/cm)	D.O. (mg/L)	TURBIDITY (NTU)	SALINITY (‰)	TDS (g/L)	COLOR	TIME
Initial	13.49	64.4	7.77	679.19	4.27	10.80	0.33	0.44	clear	1057
0.5	13.84	56.8	7.77	674.54	2.44	4.83	0.33	0.44	clear	1100
0.75	13.85	52.1	7.76	668.50	2.25	7.29	0.33	0.43	clear	1103
1.0	13.92	47.8	7.75	664.38	2.14	26.22	0.33	0.43	clear	1106
1.25	13.87	11.3	7.78	617.63	1.95	76.70	0.30	0.40	clear	1109
1.5	14.16	1.2	7.79	635.12	1.30	54.38	0.31	0.41	clear	1116
2.0	13.97	2.1	7.78	627.92	2.80	66.29	0.31	0.41	clear	1121
2.5	14.21	-1.6	7.76	617.35	0.84	37.50	0.30	0.40	clear	1124
3.0	14.33	-2.14	7.75	619.55	0.72	22.43	0.30	0.41	clear	1132
After Sampling			See							

EVACUATION METHOD: Peristaltic Pump
PUMP INTAKE DEPTH (if applicable): Mid-screen
PURGE WATER DISPOSITION (e.g., drum #): Drum on site
WATER QUALITY (e.g., sheen, odor): No odor or sheen
WATER QUALITY METER(S) USED; CALIBRATION DATE / TIME: Aqua Troll 500 ; 2/14/23 @ 0930
SAMPLING METHOD: EPA Low Flow SAMPLE TIME: 1200
SAMPLING PERSONNEL: MRH DUPLICATE TIME: _____
REMARKS (e.g., recovery rate): _____

WELL CASING VOLUMES

Gal / ft 1-1/4" = 0.077 2" = 0.16 3" = 0.37 4" = 0.65
1-1/2" = 0.10 2-1/2" = 0.24 3-1/2" = 0.50 6" = 1.46

TIME COMPLETED: 1210

Filename: J:\support\library\FIELD AND LAB FORMS\AutoCAD\Water Sampling Log.dwg Date: 02-10-2011 Logint sac

Paused to
investigate
high
NFC readings

WATER SAMPLING LOG

JOB NO. 21-1-22242-112
PAGE 2 OF 2

OWNER / LOCATION: Former Montlake Gas Station

DATE: 2/14/23

WELL NO: MW-7-22

SAMPLE NO: _____

ECOLOGY TAG NO: _____

DUPLICATE NO: _____

WEATHER: _____

MS / MSD? Yes ☐ No ☐WELL SITE CONDITIONS / MP DEFINITION: North PVC Rim
(MP is typically the north PVC rim)

SAMPLING DATA

TIME STARTED: _____

LNAPL THICKNESS: _____ ft. Sample ☐

PID HEAD SPACE: _____ ppm

DNAPL THICKNESS: _____ ft. Sample ☐

MP DISTANCE ABOVE / BELOW GROUND SURFACE: _____ ft.

TOTAL DEPTH OF WELL BELOW MP: _____ ft.

DTW BELOW MP: _____ ft.

WATER COLUMN IN WELL: _____ ft.

CASING DIAMETER: 2 in.

GALLONS PER FOOT: 0.16

GALLONS IN WELL: _____

TIME PURGING STARTED: _____

SAMPLE CONTAINERS			
Number	Size	Type	Pres.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

FIELD PARAMETERS

GALLONS REMOVED	TEMP. (C°)	ORP (mV)	pH	COND. (umhos / cm)	D.O. (mg / L)	TURBIDITY (NTU)	SALINITY (‰ PPT)	TDS (g / L)	COLOR	TIME
3.5 initial	14.32	-3.9	7.75	622.63	0.65	17.70	0.30	0.41	clear	1135
4.0	14.34	-5.0	7.74	602.58	0.49	19.90	0.30	0.39	clear	1140
4.25	14.38	-5.7	7.75	607.43	0.41	12.49	0.30	0.40	clear	1145
4.5	14.34	-6.0	7.75	604.68	0.48	5.03	0.30	0.40	clear	1148
4.75	14.33	-6.8	7.75	599.81	0.32	4.72	0.30	0.39	clear	1151
5.0	14.39	-7.2	7.75	593.17	0.34	4.85	0.29	0.39	clear	1154
After Sampling										

EVACUATION METHOD: Peristaltic Pump

PUMP INTAKE DEPTH (if applicable): Mid-screen

PURGE WATER DISPOSITION (e.g., drum #): Drum on site

WATER QUALITY (e.g., sheen, odor):

WATER QUALITY METER(S) USED; CALIBRATION DATE / TIME:

SAMPLING METHOD: EPA Low Flow

SAMPLING PERSONNEL: MRH

REMARKS (e.g., recovery rate):

SAMPLE TIME: See Page 1

DUPLICATE "TIME":

TIME COMPLETED: _____

WELL CASING VOLUMES

Gal / ft 1-1/4" = 0.077 2" = 0.16 3" = 0.37 4" = 0.65
1-1/2" = 0.10 2-1/2" = 0.24 3-1/2" = 0.50 6" = 1.46

WATER SAMPLING LOG

JOB NO. 21-1-22242-112
PAGE 1 OF 1

OWNER / LOCATION: Former Montlake Gas Station DATE: 2/14/23
WELL NO: MW-8-22 SAMPLE NO: MW-8-22:021423 ECOLOGY TAG NO: BNV 406 DUPLICATE NO: MW-100:021423
WEATHER: Cloudy Mid 40s MS / MSD? Yes ☐ No ☒
WELL SITE CONDITIONS / MP DEFINITION: North PVC Rim
(MP is typically the north PVC rim)

SAMPLING DATA

TIME STARTED: 1250 LNAPL THICKNESS: _____ ft. Sample ☐
PID HEAD SPACE: 0.6 ppm DNAPL THICKNESS: _____ ft. Sample ☐
MP DISTANCE ABOVE / BELOW GROUND SURFACE: 0.3 ft.
TOTAL DEPTH OF WELL BELOW MP: 26.05 ft.
DTW BELOW MP: 11.62 ft.
WATER COLUMN IN WELL: 14.43 ft.
CASING DIAMETER: 2 in.
GALLONS PER FOOT: 0.16
GALLONS IN WELL: 2.31
TIME PURGING STARTED: 1251

SAMPLE CONTAINERS			
Number	Size	Type	Pres.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

FIELD PARAMETERS

GALLONS REMOVED	TEMP. (C°)	OR MP (mV)	pH	COND. (umhos / cm)	D.O. (mg / l)	TURBIDITY (NTU)	SALINITY (‰ PSU)	TDS (g / l)	COLOR	TIME
Initial	12.79	-24.5	7.80	618.69	0.08	7.11	0.30	0.40	clear	1251
0.5	12.79	-23.6	7.81	616.35	0.00	8.71	0.30	0.40	clear	1254
1.0	12.98	-23.6	7.80	612.41	0.00	18.18	0.30	0.40	clear	1257
1.5	13.05	-22.5	7.79	614.79	0.10	18.63	0.30	0.40	clear	1301
1.75	13.08	-23.3	7.79	612.42	0.04	18.30	0.30	0.40	clear	1304
2.0	13.04	-21.1	7.78	622.30	0.25	18.42	0.30	0.40	clear	1307
2.25	13.28	-25.5	7.79	616.44	0.00	10.89	0.30	0.40	clear	1310
2.5	13.24	-26.0	7.79	617.74	0.00	10.57	0.30	0.40	clear	1313
2.75	13.21	-26.7	7.79	617.63	0.00	11.01	0.30	0.40	clear	1316
After Sampling										

EVACUATION METHOD: Peristaltic Pump
PUMP INTAKE DEPTH (if applicable): Mid-screen
PURGE WATER DISPOSITION (e.g., drum #): Drum on site
WATER QUALITY (e.g., sheen, odor): No odor or sheen
WATER QUALITY METER(S) USED; CALIBRATION DATE / TIME: Aqua Troll 500 ; 2/14/23 @ 0930
SAMPLING METHOD: EPA Low Flow SAMPLE TIME: 1320
SAMPLING PERSONNEL: MRH DUPLICATE TIME: 1300
REMARKS (e.g., recovery rate): _____

TIME COMPLETED: 1330

WELL CASING VOLUMES

Gal / ft 1-1/4" = 0.077 2" = 0.16 3" = 0.37 4" = 0.65
1-1/2" = 0.10 2-1/2" = 0.24 3-1/2" = 0.50 6" = 1.46

OWNER / LOCATION: Former Montlake Gas Station DATE: 2/14/2023
WELL NO: MW-9-22 SAMPLE NO: MW-9-22-021423 ECOLOGY TAG NO: BNV 409 DUPLICATE NO: _____
WEATHER: Cloudy, Low 40s MS / MSD? Yes ☐ No ☒
WELL SITE CONDITIONS / MP DEFINITION: North PVC Rim
(MP is typically the north PVC rim)

SAMPLING DATA

TIME STARTED: 1335 L NAPL THICKNESS: _____ ft. Sample ☐
PID HEAD SPACE: FE 0.0 ppm DNAPL THICKNESS: _____ ft. Sample ☐
MP DISTANCE ABOVE / BELOW GROUND SURFACE: _____ ft.
TOTAL DEPTH OF WELL BELOW MP: 25.15 ft.
DTW BELOW MP: 12.60 ft.
WATER COLUMN IN WELL: 12.49 ft.
CASING DIAMETER: 2 in.
GALLONS PER FOOT: 0.16
GALLONS IN WELL: 1.998
TIME PURGING STARTED: 1340

SAMPLE CONTAINERS			
Number	Size	Type	Pres.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

FIELD PARAMETERS

GALLONS REMOVED	TEMP. (C°)	0.25 pH (mV)	pH	COND. (umhos / cm)	D.O. (mg / L)	TURBIDITY (NTU)	SALINITY (‰ PPT)	TDS (g / L)	COLOR	TIME
Initial	13.09	-17.4	7.95	483.80	0.52	5.21	0.23	0.31	clear	1343
0.5	13.28	-17.4	7.86	486.46	0.00	12.61	0.24	0.32	clear	1347
0.75	13.32	-17.1	7.85	488.21	0.00	12.60	0.24	0.32	clear	1350
1.25	13.34	-15.7	7.83	491.38	0.00	8.59	0.24	0.32	clear	1354
1.7	13.38	-15.0	7.82	492.40	0.00	7.91	0.24	0.32	clear	1357
2.0	13.31	-14.7	7.82	492.06	0.00	8.09	0.24	0.32	clear	1400
2.25	13.35	-14.5	7.82	492.98	0.00	8.20	0.24	0.32	clear	1403
After Sampling										

EVACUATION METHOD: Peristaltic Pump
PUMP INTAKE DEPTH (if applicable): Mid-screen
PURGE WATER DISPOSITION (e.g., drum #): Drum on site
WATER QUALITY (e.g., sheen, odor): No odor or sheen
WATER QUALITY METER(S) USED; CALIBRATION DATE / TIME: Aqua Trail 500; 2/14/23 @ 0930
SAMPLING METHOD: EPA Low Flow SAMPLE TIME: 1410
SAMPLING PERSONNEL: MRH DUPLICATE "TIME": _____
REMARKS (e.g., recovery rate): _____

TIME COMPLETED: 1420

WELL CASING VOLUMES

Gal / ft 1-1/4" = 0.077 2" = 0.16 3" = 0.37 4" = 0.65
1-1/2" = 0.10 2-1/2" = 0.24 3-1/2" = 0.50 6" = 1.46

Attachment 2

Contents:

Laboratory Report and Chain-of-Custody Form (18 Sheets)



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

February 27, 2023

Joseph Sawdey
Shannon & Wilson, Inc.
400 N 34th Street, Suite 100
Seattle, WA 98103

Re: Analytical Data for Project 21-1-22242-112
Laboratory Reference No. 2302-196

Dear Joseph:

Enclosed are the analytical results and associated quality control data for samples submitted on February 15, 2023.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 27, 2023
Samples Submitted: February 15, 2023
Laboratory Reference: 2302-196
Project: 21-1-22242-112

Case Narrative

Samples were collected on February 14, 2023 and received by the laboratory on February 15, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: February 27, 2023
 Samples Submitted: February 15, 2023
 Laboratory Reference: 2302-196
 Project: 21-1-22242-112

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-19:021423					
Laboratory ID:	02-196-01					
Gasoline	ND	100	NWTPH-Gx	2-23-23	2-23-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	94	65-122				
Client ID:	MW-7-22:021423					
Laboratory ID:	02-196-02					
Gasoline	ND	100	NWTPH-Gx	2-22-23	2-22-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	98	65-122				
Client ID:	MW-6-22:021423					
Laboratory ID:	02-196-03					
Gasoline	ND	100	NWTPH-Gx	2-22-23	2-22-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	96	65-122				
Client ID:	MW-8-22:021423					
Laboratory ID:	02-196-04					
Gasoline	ND	100	NWTPH-Gx	2-22-23	2-22-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	99	65-122				
Client ID:	MW-9-22:021423					
Laboratory ID:	02-196-05					
Gasoline	ND	100	NWTPH-Gx	2-22-23	2-22-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	96	65-122				
Client ID:	MW-3-19:021423					
Laboratory ID:	02-196-06					
Gasoline	7300	100	NWTPH-Gx	2-22-23	2-22-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	110	65-122				
Client ID:	MW-100:021423					
Laboratory ID:	02-196-07					
Gasoline	ND	100	NWTPH-Gx	2-23-23	2-23-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	91	65-122				



Date of Report: February 27, 2023
 Samples Submitted: February 15, 2023
 Laboratory Reference: 2302-196
 Project: 21-1-22242-112

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	02-196-08					
Gasoline	ND	100	NWTPH-Gx	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	65-122				



Date of Report: February 27, 2023
 Samples Submitted: February 15, 2023
 Laboratory Reference: 2302-196
 Project: 21-1-22242-112

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0222W1					
Gasoline	ND	100	NWTPH-Gx	2-22-23	2-22-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	102	65-122				
Laboratory ID:	MB0223W1					
Gasoline	ND	100	NWTPH-Gx	2-23-23	2-23-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	97	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-171-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				106	100	65-122		



Date of Report: February 27, 2023
 Samples Submitted: February 15, 2023
 Laboratory Reference: 2302-196
 Project: 21-1-22242-112

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW-2-19:021423						
Laboratory ID: 02-196-01						
Benzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
Toluene	ND	1.0	EPA 8260D	2-17-23	2-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	2-17-23	2-17-23	
o-Xylene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				

Client ID: MW-7-22:021423						
Laboratory ID: 02-196-02						
Benzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
Toluene	ND	1.0	EPA 8260D	2-17-23	2-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	2-17-23	2-17-23	
o-Xylene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				

Client ID: MW-6-22:021423						
Laboratory ID: 02-196-03						
Benzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
Toluene	ND	1.0	EPA 8260D	2-17-23	2-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	2-17-23	2-17-23	
o-Xylene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-125</i>				



Date of Report: February 27, 2023
 Samples Submitted: February 15, 2023
 Laboratory Reference: 2302-196
 Project: 21-1-22242-112

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW-8-22:021423						
Laboratory ID:	02-196-04					
Benzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
Toluene	ND	1.0	EPA 8260D	2-17-23	2-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	2-17-23	2-17-23	
o-Xylene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	104	75-127				
Toluene-d8	99	80-127				
4-Bromofluorobenzene	98	78-125				
Client ID: MW-9-22:021423						
Laboratory ID:	02-196-05					
Benzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
Toluene	ND	1.0	EPA 8260D	2-17-23	2-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	2-17-23	2-17-23	
o-Xylene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	75-127				
Toluene-d8	103	80-127				
4-Bromofluorobenzene	97	78-125				
Client ID: MW-3-19:021423						
Laboratory ID:	02-196-06					
Benzene	140	1.0	EPA 8260D	2-17-23	2-17-23	
Toluene	ND	5.0	EPA 8260D	2-17-23	2-17-23	
Ethylbenzene	72	1.0	EPA 8260D	2-17-23	2-17-23	
m,p-Xylene	94	2.0	EPA 8260D	2-17-23	2-17-23	
o-Xylene	2.3	1.0	EPA 8260D	2-17-23	2-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	75-127				
Toluene-d8	104	80-127				
4-Bromofluorobenzene	99	78-125				



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW-100:021423						
Laboratory ID: 02-196-07						
Benzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
Toluene	ND	1.0	EPA 8260D	2-17-23	2-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	2-17-23	2-17-23	
o-Xylene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				

Client ID: Trip Blanks						
Laboratory ID: 02-196-08						
Benzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
Toluene	ND	1.0	EPA 8260D	2-17-23	2-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	2-17-23	2-17-23	
o-Xylene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0217W1					
Benzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
Toluene	ND	1.0	EPA 8260D	2-17-23	2-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	2-17-23	2-17-23	
o-Xylene	ND	0.20	EPA 8260D	2-17-23	2-17-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	101	75-127				
<i>Toluene-d8</i>	102	80-127				
<i>4-Bromofluorobenzene</i>	97	78-125				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0217W1									
	SB	SBD	SB	SBD	SB	SBD				
Benzene	10.4	10.3	10.0	10.0	104	103	80-121	1	16	
Toluene	9.98	10.1	10.0	10.0	100	101	80-120	1	18	
Ethylbenzene	10.3	10.3	10.0	10.0	103	103	80-125	0	18	
m,p-Xylene	20.1	20.5	20.0	20.0	101	103	80-127	2	18	
o-Xylene	10.1	10.2	10.0	10.0	101	102	80-126	1	18	
Surrogate:										
Dibromofluoromethane					101	99	75-127			
Toluene-d8					104	102	80-127			
4-Bromofluorobenzene					101	100	78-125			



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-19:021423					
Laboratory ID:	02-196-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	2-21-23	2-21-23	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	2-21-23	2-21-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Client ID:	MW-7-22:021423					
Laboratory ID:	02-196-02					
Diesel Range Organics	ND	0.20	NWTPH-Dx	2-21-23	2-21-23	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	2-21-23	2-21-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	105	50-150				

Client ID:	MW-6-22:021423					
Laboratory ID:	02-196-03					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-21-23	2-21-23	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-21-23	2-21-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				

Client ID:	MW-8-22:021423					
Laboratory ID:	02-196-04					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-21-23	2-21-23	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-21-23	2-21-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Client ID:	MW-9-22:021423					
Laboratory ID:	02-196-05					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-21-23	2-21-23	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-21-23	2-21-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	105	50-150				

Client ID:	MW-3-19:021423					
Laboratory ID:	02-196-06					
Diesel Range Organics	2.1	0.21	NWTPH-Dx	2-21-23	2-22-23	M
Lube Oil Range Organics	0.32	0.21	NWTPH-Dx	2-21-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				



Date of Report: February 27, 2023
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 Laboratory Reference: 2302-196
 Project: 21-1-22242-112

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-100:021423					
Laboratory ID:	02-196-07					
Diesel Range Organics	ND	0.20	NWTPH-Dx	2-21-23	2-22-23	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	2-21-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				



Date of Report: February 27, 2023
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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0221W1					
Diesel Range Organics	ND	0.13	NWTPH-Dx	2-21-23	2-21-23	
Lube Oil Range Organics	ND	0.13	NWTPH-Dx	2-21-23	2-21-23	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	89	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-196-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
Surrogate:								
<i>o</i> -Terphenyl				89	94	50-150		



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TOTAL ARSENIC
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-19:021423					
Laboratory ID:	02-196-01					
Arsenic	ND	3.3	EPA 200.8	2-17-23	2-17-23	

Client ID:	MW-7-22:021423					
Laboratory ID:	02-196-02					
Arsenic	ND	3.3	EPA 200.8	2-17-23	2-17-23	

Client ID:	MW-6-22:021423					
Laboratory ID:	02-196-03					
Arsenic	ND	3.3	EPA 200.8	2-17-23	2-17-23	

Client ID:	MW-8-22:021423					
Laboratory ID:	02-196-04					
Arsenic	4.2	3.3	EPA 200.8	2-17-23	2-17-23	

Client ID:	MW-9-22:021423					
Laboratory ID:	02-196-05					
Arsenic	ND	3.3	EPA 200.8	2-17-23	2-17-23	

Client ID:	MW-3-19:021423					
Laboratory ID:	02-196-06					
Arsenic	22	3.3	EPA 200.8	2-17-23	2-17-23	

Client ID:	MW-100:021423					
Laboratory ID:	02-196-07					
Arsenic	4.4	3.3	EPA 200.8	2-17-23	2-17-23	



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**TOTAL ARSENIC
 EPA 200.8
 QUALITY CONTROL**

Matrix: Water

Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0217WM2					
Arsenic	ND	3.3	EPA 200.8	2-17-23	2-17-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-068-05							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	02-068-05									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	100	117	111	111	ND	90	105	75-125	16	20



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DISSOLVED ARSENIC
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-19:021423					
Laboratory ID:	02-196-01					
Arsenic	ND	3.0	EPA 200.8	2-15-23	2-17-23	

Client ID:	MW-7-22:021423					
Laboratory ID:	02-196-02					
Arsenic	ND	3.0	EPA 200.8	2-15-23	2-17-23	

Client ID:	MW-6-22:021423					
Laboratory ID:	02-196-03					
Arsenic	ND	3.0	EPA 200.8	2-15-23	2-17-23	

Client ID:	MW-8-22:021423					
Laboratory ID:	02-196-04					
Arsenic	ND	3.0	EPA 200.8	2-15-23	2-17-23	

Client ID:	MW-9-22:021423					
Laboratory ID:	02-196-05					
Arsenic	3.0	3.0	EPA 200.8	2-15-23	2-17-23	

Client ID:	MW-3-19:021423					
Laboratory ID:	02-196-06					
Arsenic	13	3.0	EPA 200.8	2-15-23	2-17-23	

Client ID:	MW-100:021423					
Laboratory ID:	02-196-07					
Arsenic	ND	3.0	EPA 200.8	2-15-23	2-17-23	



Date of Report: February 27, 2023
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**DISSOLVED ARSENIC
 EPA 200.8
 QUALITY CONTROL**

Matrix: Water

Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0215F1					
Arsenic	ND	3.0	EPA 200.8	2-15-23	2-17-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-174-08							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	02-174-08									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	84.2	88.0	80.0	80.0	ND	105	110	75-125	4	20





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
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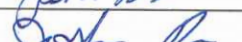

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Company:	Shannon & Wilson
Project Number:	21-1-22242-112
Project Name:	Former Montlake To Gas Station
Project Manager:	Joseph Sawdey
Sampled by:	Mitchell Harfield

Turnaround Request (in working days)	
(Check One)	
<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day
<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days
<input checked="" type="checkbox"/> Standard (7 Days)	
<input type="checkbox"/>	_____ (other)

Laboratory Number: 02-196

[illegible]

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		SWI	2/15/23	0900	Lab to filter
Received		Alpha	2/15/23	1250	
Relinquished		Alpha	2/15/23	1:18	
Received		OSI	2/15/23	1318	
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date	Reviewed/Date		Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input checked="" type="checkbox"/>		