

January 31, 2022

Sandy Smith
Cleanup Project Manager
Toxics Cleanup Program – Southwest Regional Office
Washington State Department of Ecology
PO Box 47775
Olympia, Washington 98504-7775

**RE: CONFIRMATIONAL GROUNDWATER MONITORING AND SAMPLING
STATUS REPORT – 2021
FORMER EVERGREEN FUEL FACILITY
661 EAST PINE STREET, SHELTON, WASHINGTON
FARALLON PN: 863-001**

Dear Sandy Smith:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter report to present the results from the June and December 2021 confirmational groundwater monitoring and sampling events conducted at the former Evergreen Fuel Facility at 661 East Pine Street in Shelton, Washington (herein referred to as the Site) (Figure 1). The confirmational groundwater monitoring and sampling was conducted to evaluate whether constituents of concern (COCs), which consist of total petroleum hydrocarbons as gasoline-range organics (GRO), as diesel-range organics (DRO), and as oil-range organics (ORO); and benzene, toluene, ethylbenzene, and xylenes (BTEX), have attenuated to concentrations less than Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A cleanup levels. The confirmational groundwater sampling was conducted also to comply with the requirements set forth in the following:

- Draft Cleanup Action Plan, Evergreen Fuel Facility, 661 East Pine Street, Shelton, Washington dated July 18, 2006 prepared by Farallon (Draft Cleanup Action Plan);
- Agreed Order No. DE 3937 dated November 29, 2006 entered into by the Washington State Department of Ecology (Ecology) and Chevron U.S.A. Inc. and C.C. Cole and Sons, Inc. (AO);
- Letter regarding Transmittal of Ecology Comments on Request for No Further Action Determination and Revised Groundwater Monitoring Status Report – May 2013, Evergreen Fuel Facility, 661 East Pine Street, Shelton Washington, Agreed Order No. DE 3937 dated March 10, 2014, Facility/Site ID No. 6773108, Cleanup Site ID No. 4306, dated August 25, 2014 from Scott Rose of Ecology to Peter Jewett of Farallon (Ecology Comments Letter); and
- Email regarding Evergreen Fuels Monitoring dated August 6, 2015 from Jason Landskron of Ecology to Javan Ruark of Farallon (Ecology Email), detailing the required decommissioning of monitoring wells MW-5 and MW-6 based on historical concentrations of COCs not exceeding laboratory practical quantitation limits (PQLs).



This letter includes a summary of the Site background information, details of the confirmational groundwater monitoring and sampling, a discussion of the sampling results, and conclusions.

SITE BACKGROUND

A cleanup action was completed under the AO that was entered into by Ecology and potentially liable persons Chevron U.S.A. Inc. and C.C. Cole and Sons, Inc. The cleanup action was completed in accordance with the scope of work documented in the Draft Cleanup Action Plan, which was reviewed and approved by Ecology. Details regarding the cleanup activities are presented in the *Cleanup Action Summary Report, December 2006 to June 2007, Evergreen Fuel Facility, 661 East Pine Street, Shelton, Washington* dated July 30, 2007 prepared by Farallon. A general description of the cleanup action activities pertinent to the ongoing confirmational groundwater monitoring being conducted is provided below.

Cleanup action activities completed in January 2007 included excavation and removal of 7,508 tons of soil containing COCs, which consist of GRO, DRO, ORO, and BTEX, at concentrations exceeding regulatory cleanup levels. The excavation areas were backfilled with quarry spalls to above the water table at a depth of approximately 3 feet below ground surface. A total of 4,000 pounds of Advanced Oxygen Release Compound manufactured by Regenesys, Inc. of San Clemente, California was mixed with the quarry spalls used for backfill beneath the water table prior to placement, to enhance aerobic biodegradation of residual COCs in saturated soil and groundwater. Confirmational groundwater monitoring and sampling was initiated in April 2007 to document the effects of the source removal action and ongoing biodegradation of residual COCs in groundwater. The Site is paved and currently is used as a parking lot for the Shelton Yacht Club (SYC).

Confirmational groundwater monitoring and sampling conducted from 2007 to 2013 indicated that source removal and oxygen release compound treatment had resulted in a reduction of COCs, with overall decreasing to stable conditions throughout the Site. However, DRO was detected at concentrations exceeding the MTCA Method A cleanup level in six of eight groundwater samples collected from monitoring well MW-10 during the 2007 to 2013 time period.

Farallon submitted the letter regarding Request for No Further Action Determination, Evergreen Fuel Facility, 661 East Pine Street, Shelton, Washington dated March 10, 2014 from Javan Ruark and Peter Jewett to Dominick Reale of Ecology (Request Letter). In its response to the Request Letter and as detailed in the Ecology Comments Letter, Ecology indicated that additional performance soil and confirmational groundwater monitoring and sampling were required to receive a No Further Action determination for the Site. In the Request Letter, Ecology was amenable to pursuing other avenues to achieve compliance or soil. The additional performance soil and confirmational groundwater monitoring and sampling required by Ecology consisted of the following:

- Collecting additional soil samples at locations where residual COCs were left in-place, to determine whether current concentrations were less than MTCA Method A cleanup levels for protection of groundwater. If concentrations of residual COCs still exceeded MTCA Method A cleanup levels, the locations with the highest concentrations of DRO were to be used to



develop Site-specific Method B cleanup levels for direct contact and protection of groundwater.

- Performing semiannual confirmational groundwater monitoring and sampling at existing Site monitoring wells until MTCA Method A cleanup levels had been achieved and maintained for 1 year at all monitoring wells required to be sampled, as detailed in the AO. Once groundwater analytical results indicated that COCs were less than MTCA Method A cleanup levels for 1 year, four consecutive quarters of confirmational groundwater monitoring and sampling were to be conducted to demonstrate that MTCA Method A cleanup levels for groundwater had been achieved for the Site. Neither of these requirements have been attained for DRO in monitoring well MW-10.

Ecology subsequently provided additional details regarding confirmational groundwater monitoring and sampling to occur at the Site. The details were provided in the Ecology Email and included:

- Confirmational groundwater monitoring and sampling were to be conducted in accordance with the AO, and would include monitoring wells MW-8 through MW-10; and
- Monitoring wells MW-5 and MW-6, which were covered during re-grading activities conducted in the Site parking lot, were to be located, and decommissioned in accordance with Chapter 173-160 of the Washington Administrative Code.

Monitoring well decommissioning activities were conducted in December 2017. The required soil sampling work will not be required by Ecology as a component of ongoing confirmational groundwater monitoring and sampling until groundwater quality meets MTCA Method A cleanup levels for all COCs at the Site. Confirmation that the cleanup standards have been achieved in the media of concern is necessary to support a closure request. The results from the confirmational groundwater sampling conducted in 2019 indicated that further confirmational groundwater monitoring and sampling at the Site was warranted to comply with the AO.

On June 26, 2021, Ecology requested that groundwater samples collected from monitoring wells MW-9 and MW-10 be analyzed using the acid-silica gel cleanup procedure. The purposes of the additional analysis were to gather supportive information for Ecology's update of the Northwest Total Petroleum Hydrocarbons-Dx method analysis, and to evaluate whether DRO detected in groundwater was petroleum-related or due to naturally occurring organic materials. Details of the Ecology request were provided in the email regarding Evergreen Fuels Shelton dated June 16, 2021 from Charles San Juan of Ecology to Javan Ruark of Farallon.

In the email regarding Former Evergreen Fuel Facility dated September 29, 2021 from Joyce Mercuri to Javan Ruark of Farallon, Ecology provided notification that the current property owner, SYC, is in the process of applying for a U.S. Army Corps of Engineers 404 permit, and certification under Section 401 of the Clean Water Act before replacing the existing shoreline bulkhead. The bulkhead replacement is part of a habitat improvement project being conducted in conjunction with the Squaxin Island Tribe, scheduled to begin in July 2022 pending receipt of permits and coordination with all stakeholders.



The required confirmational groundwater monitoring and sampling that was conducted in 2021, the results, and Farallon's conclusions based on the results are discussed below.

CONFIRMATIONAL GROUNDWATER MONITORING AND SAMPLING

Confirmational groundwater monitoring and sampling events were conducted on June 21 and December 9, 2021 at monitoring wells MW-8 through MW-10 (Figure 2). A subsequent groundwater monitoring event was conducted on December 13, 2021 due to equipment failure that occurred during the December 9, 2021 confirmational groundwater monitoring event. Confirmational groundwater monitoring and sampling included measuring the depth to groundwater at all accessible monitoring wells, and collecting groundwater samples from monitoring wells MW-8 through MW-10 for laboratory analysis. Upon Farallon's arrival at the Site, monitoring wells MW-8 through MW-10 were opened, and the water level was permitted to equilibrate with atmospheric pressure for a minimum of 15 minutes before groundwater levels in the wells were measured. Groundwater levels were measured to an accuracy of 0.01 foot using a water-level meter.

Monitoring wells MW-8 through MW-10 were purged and sampled using a peristaltic pump and dedicated polyethylene tubing at flow rates ranging from 150 to 200 milliliters per minute. The tubing intake was placed approximately 2 to 3 feet below the top of the water table in each monitoring well. During purging, water quality was monitored using a YSI water-quality meter equipped with a flow-through cell. The water-quality parameters monitored and recorded consisted of temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential. Each monitoring well was purged until the temperature, pH, specific conductance, dissolved oxygen, and oxidation-reduction potential parameters stabilized.

Following purging, groundwater samples were collected directly from the pump outlet tubing located upstream of the flow-through cell, and placed directly into laboratory-prepared sample containers. The containers were placed on ice in a cooler and transported under standard chain-of-custody protocols to OnSite Environmental Inc. of Redmond, Washington for laboratory analysis for DRO and ORO by Northwest Method NWTPH-Dx with and without the acid-silica gel cleanup procedure. Analysis for GRO and BTEX was not performed, based on the following:

- Previous analytical data demonstrated that concentrations of GRO and BTEX detected in samples collected at the Site were less than MTCA Method A cleanup levels for four consecutive quarters; and
- Ecology has not required further analysis for GRO or BTEX, per the Ecology Comments Letter.

Purge water generated during confirmational groundwater monitoring and sampling was placed into a labeled 55-gallon steel drum and stored on the Site.



RESULTS

The results from the field activities and the laboratory analytical results for the confirmational groundwater monitoring and sampling events conducted on June 21 and December 9 and 13, 2021 are presented below. Historical and current groundwater-level measurements and elevations are summarized in Table 1. Groundwater elevation contours for the June 21 and December 13, 2021 confirmational groundwater monitoring events are shown on Figures 3 and 4, respectively. Groundwater analytical results are summarized in Table 2 and shown on Figure 5. Chart 1 depicts the trends in concentrations of DRO and groundwater elevations at monitoring well MW-10. Groundwater geochemical parameters are summarized in Table 3. Laboratory analytical reports are provided in Attachment A.

The June 21 and December 13, 2021 groundwater elevation data indicated a southeastern groundwater flow direction toward Oakland Bay, with an average gradient of 0.05 foot per foot. (Figures 3 and 4). During the June 21, 2021 confirmational groundwater monitoring event, groundwater levels were measured during a low-tide cycle that had a minimum height of -0.59 feet below mean sea level at 10:58 a.m. according to National Ocean Service tidal prediction data accessed on January 6, 2022.¹ During the December 13, 2021 confirmational groundwater monitoring event, groundwater levels were measured during a low-tide cycle that had a minimum height of 4.28 feet above mean sea level at 8:15 a.m. according to the National Ocean Service tidal prediction data accessed on January 6, 2022.²

Groundwater analytical results for monitoring well MW-10 were as follows:

- DRO and ORO were detected at concentrations exceeding the MTCA Method A cleanup level during the June 21 and December 9, 2021 confirmational groundwater monitoring and sampling events without the acid-silica gel cleanup procedure (Table 2; Figure 5). Neither DRO nor ORO was detected at concentrations exceeding laboratory PQLs, which are less than MTCA Method A cleanup levels with the acid-silica gel cleanup procedure (Table 2; Figure 5).

Groundwater analytical results for monitoring wells MW-8 and MW-9 were as follows:

- Neither DRO nor ORO was detected at a concentration exceeding laboratory PQLs during the June 21 or December 9, 2021 confirmational groundwater monitoring and sampling events, either with or without the acid-silica gel cleanup procedure (Table 2; Figure 5).

¹[Tide Predictions - NOAA Tides & Currents](#)

²[Tide Predictions - NOAA Tides & Currents](#)



CONCLUSIONS

Concentrations of DRO and ORO at monitoring wells MW-8 and MW-9 were less than MTCA Method A cleanup levels, which is consistent with historical trends for concentrations of DRO and ORO detected at these monitoring wells. The groundwater data continue to indicate that soil contamination left in-place at the monitoring well MW-8 location and up-gradient of monitoring well MW-9 is not impacting groundwater quality and can be managed by institutional controls in accordance with MTCA.

The highest concentrations of DRO without the acid-silica gel cleanup procedure during the 2021 confirmational groundwater monitoring and sampling events were detected at monitoring well MW-10 on December 9, 2021, which correlates with seasonal high groundwater elevation data (Chart 1). This outcome is representative of the trend at monitoring well MW-10, where concentrations of DRO historically have correlated with seasonally higher groundwater elevation data (Chart 1).

ORO concentrations detected continue to exceed the MTCA Method A cleanup level without the acid-silica gel cleanup procedure (Table 2; Figure 5), and are less than the laboratory PQL when the acid-silica gel cleanup procedure is applied. ORO has been detected at higher concentrations when groundwater elevations are higher, indicating a greater contribution of ORO materials from shallower soil in direct contact with groundwater when groundwater elevations are higher, as is the case for DRO.

Groundwater analytical results, including at the points of compliance well network along the shoreline, from the June and December 2021 confirmational groundwater monitoring and sampling events do not exceed MTCA Method A cleanup levels when non-petroleum polar metabolites are removed from samples using the acid-silica gel cleanup procedure. The source of polar metabolites is attributable to naturally occurring biological material as detailed in the Draft Ecology Silica Gel Cleanup Memo dated June 2021, prepared by Ecology. Farallon therefore recommends that groundwater sampling is terminated after the SYC bulkhead project is completed, and that a discussion of a path to Site closure is initiated. Farallon also recommends that the AO scope of work is amended to reflect the recent work conducted by Farallon and the proposed bulkhead work by SYC, in support of a complete record supporting Site closure. Cole and Cole and Chevron U.S.A. Inc. are prepared to provide the necessary support and documentation of the planned bulkhead removal work by SYC to ensure that data is sufficiently collected to document the removal of residual soil contamination.



CLOSING

Farallon trusts that this report provides sufficient information for your needs. Please contact either of the undersigned at (425) 295-0800 if you have questions or require additional information.

Sincerely,

Farallon Consulting, L.L.C.

Javan Ruark, L.G.
Associate Geologist

Jeffrey Kaspar, L.G., L.H.G.
Principal Geologist

Attachments: Figure 1, *Site Vicinity Map*
Figure 2, *Site Plan*
Figure 3, *Groundwater Elevation Contours and Flow Direction, June 21, 2021*
Figure 4, *Groundwater Elevation Contours and Flow Direction, December 13, 2021*
Figure 5, *Groundwater Analytical Data*
Table 1, *Summary of Groundwater Elevation Data*
Table 2, *Summary of Groundwater Analytical Results*
Table 3, *Summary of Groundwater Geochemical Parameters*
Chart 1, *DRO Concentrations in Groundwater versus Groundwater Elevation Data Trends for Monitoring Well MW-10*
Attachment A, *Laboratory Analytical Reports*

cc: Jacob Blair, Joyce Ziker Partners, PLLC
Bill Joyce, Joyce Ziker Partners, PLLC
Dave Mariano, Shelton Yacht Club
Brandon Palmer, Port of Shelton
Nathan Blomgren, Chevron U.S.A. Inc
Cheryl Cameron, Chevron U.S.A. Inc.
Stefanie Haines, Resolute Management, Inc.

JR/JK:bjj

FIGURES

CONFIRMATIONAL GROUNDWATER MONITORING AND SAMPLING STATUS REPORT – 2021

**Former Evergreen Fuel Facility
661 East Pine Street
Shelton, Washington**

Farallon PN: 863-001



REFERENCE: 7.5 MINUTE USGS QUADRANGLE SHELTON, WASHINGTON, DATED 2011



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FIGURE 1
SITE VICINITY MAP
FORMER EVERGREEN FUEL FACILITY
661 EAST PINE STREET
SHELTON, WASHINGTON

FARALLON PN: 863-001

Drawn By: vpehlihan

Checked By: JR

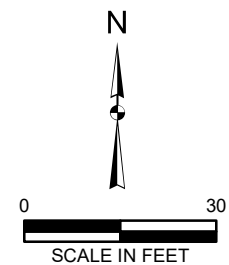
Date: 1/21/2022

Disc Reference:

Document Path: Q:\Projects\863 Former Evergreen Fuel\Mapfiles\GW Monitoring 202012\Figure-01 SiteVicinity.mxd



- LEGEND**
- MONITORING WELL (FARALLON 2005 AND 2007)
 - DECOMMISSIONED MONITORING WELL (FARALLON 2017)
 - UTILITY POLE
 - FIRE HYDRANT
 - BULKHEAD RETAINING WALL
 - APPROXIMATE SITE BOUNDARY



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FIGURE 2
SITE PLAN
FORMER EVERGREEN FUEL FACILITY
661 EAST PINE STREET
SHELTON, WASHINGTON

FARALLON PN: 863-001

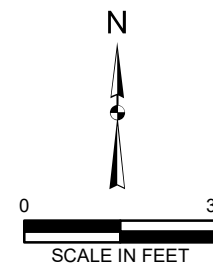


LEGEND

-  MONITORING WELL (FARALLON 2005 AND 2007)
-  SITE BOUNDARY

-  12.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
-  GROUNDWATER FLOW DIRECTION
-  (13.13) GROUNDWATER ELEVATION (6/21/2021)

NOTES:
 1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR.
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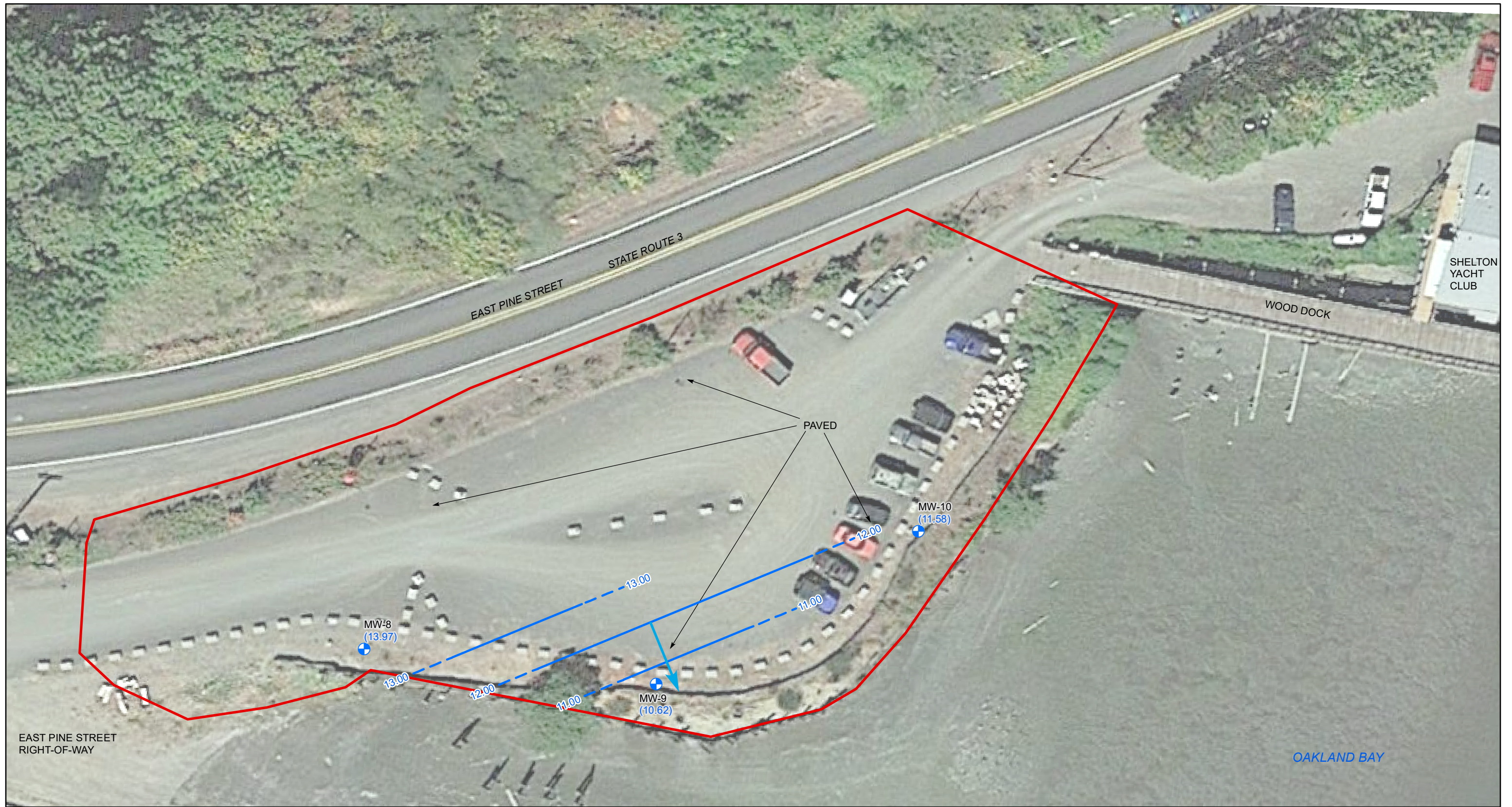

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Drawn By: vpehlivan Checked By: JR Date: 1/11/2022




FIGURE 3
 GROUNDWATER ELEVATION CONTOURS
 AND FLOW DIRECTION
 JUNE 21, 2021
 FORMER EVERGREEN FUEL FACILITY
 661 EAST PINE STREET
 SHELTON, WASHINGTON
 FARALLON PN: 863-001

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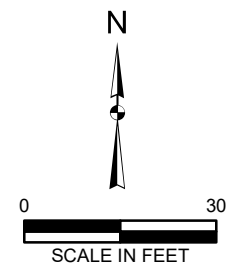


LEGEND

 MONITORING WELL (FARALLON 2005 AND 2007)
 SITE BOUNDARY

 12.00 --- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
 GROUNDWATER FLOW DIRECTION
 (11.58) GROUNDWATER ELEVATION (12/13/2021)

NOTES:
 1. ALL LOCATIONS ARE APPROXIMATE.
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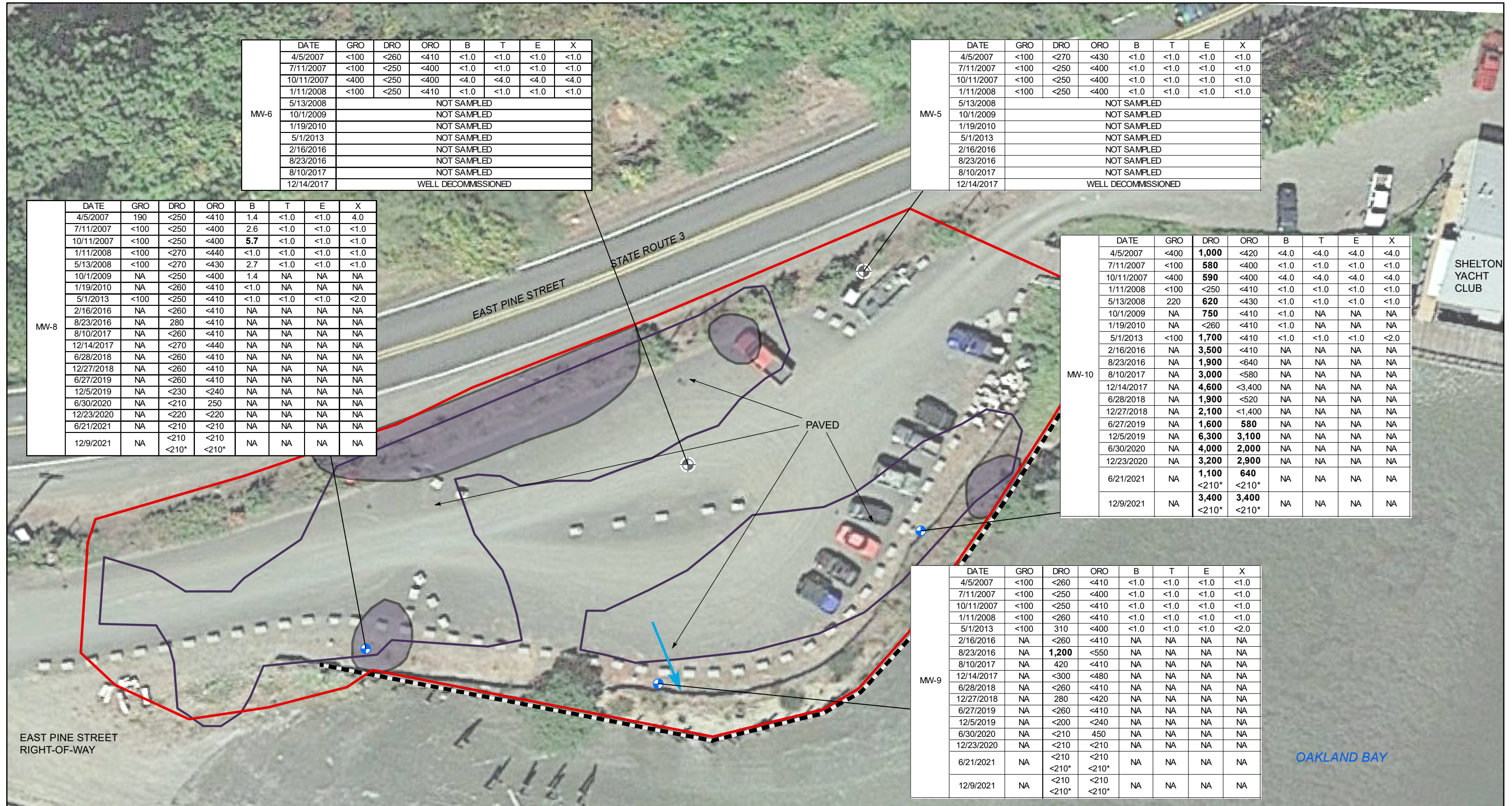



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FIGURE 4
 GROUNDWATER ELEVATION CONTOURS
 AND FLOW DIRECTION
 DECEMBER 13, 2021
 FORMER EVERGREEN FUEL FACILITY
 661 EAST PINE STREET
 SHELTON, WASHINGTON
 FARALLON PN: 863-001
 Disc Reference:
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Table 1
Summary of Groundwater Elevation Data
Former Evergreen Fuel Facility
Shelton, Washington
Farallon PN: 863-001

Well Identification	Well Screened Interval (feet bgs) ¹	Top of Monument Elevation ²	Top of Casing Elevation ²	Date Measured	Depth to Water (feet) ³	Groundwater Elevation ²
MW-5	5-15	16.94	16.46	4/5/2007	8.13	8.33
				7/11/2007	7.4	9.06
				10/11/2007	6.57	9.89
				1/11/2008	7.19	9.27
				5/13/2008	NM	NA
				10/1/2009	NM	NA
				1/19/2010	NM	NA
				5/1/2013	NM	NA
				2/16/2016	NM	NA
				8/23/2016	NM	NA
				8/10/2017	7.81	8.65
Decommissioned 12/14/2017						
MW-6	3-12	14.93	14.47	4/5/2007	6.24	8.23
				7/11/2007	5.29	9.18
				10/11/2007	4.4	10.07
				1/11/2008	5.1	9.37
				5/13/2008	NM	NA
				10/1/2009	NM	NA
				1/19/2010	NM	NA
				5/1/2013	NM	NA
				2/16/2016	NM	NA
				8/23/2016	NM	NA
				8/10/2017	6.43	8.04
Decommissioned 12/14/2017						
MW-8	3-15	18.85	18.48	4/5/2007	6.1	12.38
				7/11/2007	5.18	13.3
				10/11/2007	4.86	13.62
				1/11/2008	5.08	13.4
				5/13/2008	9.27	9.21
				10/1/2009	6.62	11.86
				1/19/2010	4.60	13.88
				5/1/2013	5.35	13.13
				2/16/2016	4.75	13.73
				8/23/2016	5.84	12.64
				8/10/2017	5.57	12.91
				12/14/2017	5.22	13.26
				6/28/2018	5.42	13.06
				12/27/2018	4.91	13.57
				6/27/2019	5.45	13.03
				12/5/2019	5.25	13.23
				6/30/2020	5.32	13.16
				12/23/2020	4.75	13.73
6/21/2021	5.35	13.13				
12/9/2021	4.82	13.66				
12/13/2021	4.51	13.97				



	DATE	GRO	DRO	ORO	B	T	E	X
MW-6	4/5/2007	<100	<260	<410	<1.0	<1.0	<1.0	<1.0
	7/11/2007	<100	<250	<400	<1.0	<1.0	<1.0	<1.0
	10/11/2007	<400	<250	<400	<4.0	<4.0	<4.0	<4.0
	1/11/2008	<100	<250	<410	<1.0	<1.0	<1.0	<1.0
	5/13/2008	NOT SAMPLED						
	10/1/2009	NOT SAMPLED						
	1/19/2010	NOT SAMPLED						
	5/1/2013	NOT SAMPLED						
	2/16/2016	NOT SAMPLED						
	8/23/2016	NOT SAMPLED						
	8/10/2017	NOT SAMPLED						
	12/14/2017	WELL DECOMMISSIONED						

	DATE	GRO	DRO	ORO	B	T	E	X
MW-5	4/5/2007	<100	<270	<430	<1.0	<1.0	<1.0	<1.0
	7/11/2007	<100	<250	<400	<1.0	<1.0	<1.0	<1.0
	10/11/2007	<100	<250	<400	<1.0	<1.0	<1.0	<1.0
	1/11/2008	<100	<250	<400	<1.0	<1.0	<1.0	<1.0
	5/13/2008	NOT SAMPLED						
	10/1/2009	NOT SAMPLED						
	1/19/2010	NOT SAMPLED						
	5/1/2013	NOT SAMPLED						
	2/16/2016	NOT SAMPLED						
	8/23/2016	NOT SAMPLED						
	8/10/2017	NOT SAMPLED						
	12/14/2017	WELL DECOMMISSIONED						

	DATE	GRO	DRO	ORO	B	T	E	X
MW-8	4/5/2007	190	<250	<410	1.4	<1.0	<1.0	4.0
	7/11/2007	<100	<250	<400	2.6	<1.0	<1.0	<1.0
	10/11/2007	<100	<250	<400	5.7	<1.0	<1.0	<1.0
	1/11/2008	<100	<270	<440	<1.0	<1.0	<1.0	<1.0
	5/13/2008	<100	<270	<430	2.7	<1.0	<1.0	<1.0
	10/1/2009	NA	<250	<400	1.4	NA	NA	NA
	1/19/2010	NA	<260	<410	<1.0	NA	NA	NA
	5/1/2013	<100	<250	<410	<1.0	<1.0	<1.0	<2.0
	2/16/2016	NA	<260	<410	NA	NA	NA	NA
	8/23/2016	NA	280	<410	NA	NA	NA	NA
	8/10/2017	NA	<260	<410	NA	NA	NA	NA
	12/14/2017	NA	<270	<440	NA	NA	NA	NA
	6/28/2018	NA	<260	<410	NA	NA	NA	NA
	12/27/2018	NA	<260	<410	NA	NA	NA	NA
	6/27/2019	NA	<260	<410	NA	NA	NA	NA
	12/5/2019	NA	<230	<240	NA	NA	NA	NA
	6/30/2020	NA	<210	250	NA	NA	NA	NA
12/23/2020	NA	<220	<220	NA	NA	NA	NA	
6/21/2021	NA	<210	<210	NA	NA	NA	NA	
12/9/2021	NA	<210	<210*	NA	NA	NA	NA	

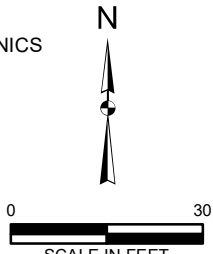
	DATE	GRO	DRO	ORO	B	T	E	X
MW-10	4/5/2007	<400	1,000	<420	<4.0	<4.0	<4.0	<4.0
	7/11/2007	<100	580	<400	<1.0	<1.0	<1.0	<1.0
	10/11/2007	<400	590	<400	<4.0	<4.0	<4.0	<4.0
	1/11/2008	<100	<250	<410	<1.0	<1.0	<1.0	<1.0
	5/13/2008	220	620	<430	<1.0	<1.0	<1.0	<1.0
	10/1/2009	NA	750	<410	<1.0	NA	NA	NA
	1/19/2010	NA	<260	<410	<1.0	NA	NA	NA
	5/1/2013	<100	1,700	<410	<1.0	<1.0	<1.0	<2.0
	2/16/2016	NA	3,500	<410	NA	NA	NA	NA
	8/23/2016	NA	1,900	<640	NA	NA	NA	NA
	8/10/2017	NA	3,000	<580	NA	NA	NA	NA
	12/14/2017	NA	4,600	<3,400	NA	NA	NA	NA
	6/28/2018	NA	1,900	<520	NA	NA	NA	NA
	12/27/2018	NA	2,100	<1,400	NA	NA	NA	NA
	6/27/2019	NA	1,600	580	NA	NA	NA	NA
	12/5/2019	NA	6,300	3,100	NA	NA	NA	NA
	6/30/2020	NA	4,000	2,000	NA	NA	NA	NA
	12/23/2020	NA	3,200	2,900	NA	NA	NA	NA
	6/21/2021	NA	1,100	640	NA	NA	NA	NA
			<210*	<210*	NA	NA	NA	NA
12/9/2021	NA	3,400	3,400	NA	NA	NA	NA	
		<210*	<210*	NA	NA	NA	NA	

	DATE	GRO	DRO	ORO	B	T	E	X
MW-9	4/5/2007	<100	<260	<410	<1.0	<1.0	<1.0	<1.0
	7/11/2007	<100	<250	<400	<1.0	<1.0	<1.0	<1.0
	10/11/2007	<100	<250	<410	<1.0	<1.0	<1.0	<1.0
	1/11/2008	<100	<260	<410	<1.0	<1.0	<1.0	<1.0
	5/1/2013	<100	310	<400	<1.0	<1.0	<1.0	<2.0
	2/16/2016	NA	<260	<410	NA	NA	NA	NA
	8/23/2016	NA	1,200	<550	NA	NA	NA	NA
	8/10/2017	NA	420	<410	NA	NA	NA	NA
	12/14/2017	NA	<300	<480	NA	NA	NA	NA
	6/28/2018	NA	<260	<410	NA	NA	NA	NA
	12/27/2018	NA	280	<420	NA	NA	NA	NA
	6/27/2019	NA	<260	<410	NA	NA	NA	NA
	12/5/2019	NA	<200	<240	NA	NA	NA	NA
	6/30/2020	NA	<210	450	NA	NA	NA	NA
	12/23/2020	NA	<210	<210	NA	NA	NA	NA
	6/21/2021	NA	<210	<210	NA	NA	NA	NA
			<210*	<210*	NA	NA	NA	NA
12/9/2021	NA	<210	<210	NA	NA	NA	NA	
		<210*	<210*	NA	NA	NA	NA	

- LEGEND**
- MONITORING WELL (FARALLON 2005 AND 2017)
 - DECOMMISSIONED MONITORING WELL (FARALLON 2017)
 - INFERRED GROUNDWATER FLOW DIRECTION
 - APPROXIMATE SITE BOUNDARY
 - BULKHEAD RETAINING WALL
 - FORMER EXCAVATION AREA
 - RESIDUAL SOIL CONTAMINATION AREA

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

NOTES:
 ANALYTICAL RESULTS ARE IN MICROGRAMS PER LITER (µg/l)
 BTEX = BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
 DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS
 GRO = TPH AS GASOLINE-RANGE ORGANICS
 ORO = TPH AS OIL-RANGE ORGANICS
 NA = SAMPLE NOT ANALYZED FOR ANALYTE
BOLD = CONCENTRATIONS THAT EXCEED THE WASHINGTON STATE MODEL TOXICS CONTROL ACT (MTCOA) METHOD A CLEANUP LEVEL
 < = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED
 * = SAMPLE TREATED WITH ACID/SILICA GEL CLEANUP PROCESS PRIOR TO ANALYSIS



Washington
Issaquah | Bellingham | Seattle

Oregon
Portland | Baker City

California
Oakland | Irvine

Drawn By: vpehivan Checked By: JR Date: 1/3/2022

FIGURE 5

GROUNDWATER ANALYTICAL DATA
 FORMER EVERGREEN FUEL FACILITY
 661 EAST PINE STREET
 SHELTON, WASHINGTON

FARALLON PN: 863-001

Disc Reference:
 Document Path: Q:\Projects\863 Former Evergreen Fuel\Mapfiles\001 Fmr Evergreen Fuel Facility\040\Figure-05 GW Analytical TPH.mxd

TABLES

CONFIRMATIONAL GROUNDWATER MONITORING AND SAMPLING STATUS REPORT – 2021

**Former Evergreen Fuel Facility
661 East Pine Street
Shelton, Washington**

Farallon PN: 863-001

Table 1
Summary of Groundwater Elevation Data
Former Evergreen Fuel Facility
Shelton, Washington
Farallon PN: 863-001

Well Identification	Well Screened Interval (feet bgs) ¹	Top of Monument Elevation ²	Top of Casing Elevation ²	Date Measured	Depth to Water (feet) ³	Groundwater Elevation ²
MW-9	3-15	19.25	18.93	4/5/2007	10.05	8.88
				7/11/2007	9.50	9.43
				10/11/2007	7.50	11.43
				1/11/2008	7.68	11.25
				5/13/2008	5.78	13.15
				10/1/2009	10.21	8.72
				1/19/2010	6.99	11.94
				5/1/2013	8.84	10.09
				2/16/2016	8.3	10.63
				8/23/2016	9.94	8.99
				8/10/2017	9.14	9.79
				12/14/2017	8.62	10.31
				6/28/2018	9.29	9.64
				12/27/2018	7.82	11.11
				6/27/2019	9.49	9.44
				12/5/2019	8.65	10.28
6/30/2020	8.68	10.25				
12/23/2020	8.50	10.43				
6/21/2021	8.50	10.43				
12/13/2021	8.31	10.62				
MW-10	2-17	20.26	19.93	4/5/2007	9.14	10.79
				7/11/2007	8.65	11.28
				10/11/2007	7.00	12.93
				1/11/2008	7.73	12.20
				5/13/2008	8.82	11.11
				10/1/2009	10.5	9.43
				1/19/2010	7.13	12.80
				5/1/2013	8.43	11.50
				2/16/2016	7.89	12.04
				8/23/2016	10.51	9.42
				8/10/2017	10.17	9.76
				12/14/2017	9.00	10.93
				6/28/2018	10.32	9.61
				12/27/2018	8.27	11.66
				6/27/2019	10.40	9.53
				12/5/2019	9.64	10.29
6/30/2020	9.81	10.12				
12/23/2020	8.48	11.45				
6/21/2021	9.42	10.51				
12/9/2021	8.55	11.38				
12/13/2021	8.35	11.58				

NOTES:

¹Screened interval in feet below ground surface (bgs).

NA = not available

²Elevations relative to vertical survey datum that is based on a mean lower low water elevation of 44.11 feet and referenced from a Washington State Department of Transportation brass cap set in a monument with a published elevation of 47.58 feet North American Vertical Datum.

NM = not measured

³Depth to water measured in feet below the top of the well casing.

Table 2
Summary of Groundwater Analytical Results
Former Evergreen Fuel Facility
Shelton, Washington
Farallon PN: 863-001

Sample Identification	Sample Location	Sample Date	Analytical Results (micrograms per liter)						
			GRO ¹	DRO ²	ORO ²	Benzene ³	Toluene ³	Ethylbenzene ³	Total Xylenes ³
MW8-040507	MW-8	4/5/2007	190 ⁴	<250	<410	1.4	<1.0	<1.0	4.0
MW8-071107		7/11/2007	<100	<250	<400	2.6	<1.0	<1.0	<1.0
MW8-101107		10/11/2007	<100	<250	<400	5.7	<1.0	<1.0	<1.0
MW8-011108		1/11/2008	<100	<270	<440	<1.0	<1.0	<1.0	<1.0
MW8-051308		5/13/2008	<100	<270	<430	2.7	<1.0	<1.0	<1.0
MW8-100109		10/1/2009	--	<250	<400	1.4	--	--	--
MW8-011910		1/19/2010	--	<260	<410	<1.0	--	--	--
MW-8-050113		5/1/2013	<100	<250	<410	<1.0	<1.0	<1.0	<2.0
MW-8-021616		2/16/2016	--	<260	<410	--	--	--	--
MW-8-082316		8/23/2016	--	280	<410	--	--	--	--
MW-8-081017		8/10/2017	--	<260	<410	--	--	--	--
MW-8-121417		12/14/2017	--	<270	<440	--	--	--	--
MW-8-062818		6/28/2018	--	<260	<410	--	--	--	--
MW-8-122718		12/27/2018	--	<260	<410	--	--	--	--
MW-8-062719		6/27/2019	--	<260	<410	--	--	--	--
MW-8-120519		12/5/2019	--	<230	<240	--	--	--	--
MW-8-063020		6/30/2020	--	<210	250	--	--	--	--
MW-8-122320		12/23/2020	--	<220	<220	--	--	--	--
MW-8-062121		6/21/2021	--	< 210	< 210	--	--	--	--
MW-8-120921	12/9/2021	--	< 210	< 210	--	--	--	--	
			< 210 ⁵	< 210 ⁵	--	--	--	--	
MW9-040507	MW-9	4/5/2007	<100	<260	<410	<1.0	<1.0	<1.0	<1.0
MW9-071107		7/11/2007	<100	<250	<400	<1.0	<1.0	<1.0	<1.0
MW9-101107		10/11/2007	<100	<250	<410	<1.0	<1.0	<1.0	<1.0
MW9-011108		1/11/2008	<100	<260	<410	<1.0	<1.0	<1.0	<1.0
MW-9-050113		5/1/2013	<100	310	<400	<1.0	<1.0	<1.0	<2.0
MW-9-021616		2/16/2016	--	<260	<410	--	--	--	--
MW-9-082316		8/23/2016	--	1,200	<550 U1	--	--	--	--
MW-9-081017		8/10/2017	--	420	<410	--	--	--	--
MW-9-121417		12/14/2017	--	<300	<480	--	--	--	--
MW-9-062818		6/28/2018	--	<260	<410	--	--	--	--
MW-9-122718		12/27/2018	--	280	<420	--	--	--	--
MW-9-062719		6/27/2019	--	<260	<410	--	--	--	--
MW-9-120519		12/5/2019	--	<200	<240	--	--	--	--
MW-9-063020		6/30/2020	--	<210	450	--	--	--	--
MW-9-122320		12/23/2020	--	<210	<210	--	--	--	--
MW-9-062121		6/21/2021	--	< 210	< 210	--	--	--	--
				< 210 ⁵	< 210 ⁵	--	--	--	--
MW-9-120921	12/9/2021	--	< 210	< 210	--	--	--	--	
			< 210 ⁵	< 210 ⁵	--	--	--	--	
MTCA Method A Cleanup Levels⁶			800/1,000⁷	500	500	5	1,000	700	1,000

Table 2
Summary of Groundwater Analytical Results
Former Evergreen Fuel Facility
Shelton, Washington
Farallon PN: 863-001

Sample Identification	Sample Location	Sample Date	Analytical Results (micrograms per liter)						
			GRO ¹	DRO ²	ORO ²	Benzene ³	Toluene ³	Ethylbenzene ³	Total Xylenes ³
MW10-040507	MW-10	4/5/2007	<400	1,000	<420	<4.0	<4.0	<4.0	<4.0
MW10-071107		7/11/2007	<100	580	<400	<1.0	<1.0	<1.0	<1.0
MW10-101107		10/11/2007	<400	590	<400	<4.0	<4.0	<4.0	<4.0
MW10-011108		1/11/2008	<100	<250	<410	<1.0	<1.0	<1.0	<1.0
MW10-051308		5/13/2008	220	620	<430	<1.0	<1.0	<1.0	<1.0
MW10-100109		10/1/2009	--	750	<410	<1.0	--	--	--
MW10-011910		1/19/2010	--	<260	<410	<1.0	--	--	--
MW-10-050113		5/1/2013	<100	1,700	<410	<1.0	<1.0	<1.0	<2.0
MW-10-021616		2/16/2016	--	3,500	<410	--	--	--	--
MW-10-021616		8/23/2016	--	1,900	<640 U1	--	--	--	--
MW-10-081017		8/10/2017	--	3,000	<580 U1	--	--	--	--
MW-10-121417		12/14/2017	--	4,600	<3,400 U1	--	--	--	--
MW-10-062818		6/28/2018	--	1,900	<520 U1	--	--	--	--
MW-10-122718		12/27/2018	--	2,100	<1,400 U1	--	--	--	--
MW-10-062719		6/27/2019	--	1,600	580 N	--	--	--	--
MW-10-120519		12/5/2019	--	6,300	3,100 N	--	--	--	--
MW-10-063020		6/30/2020	--	4,000	2,000	--	--	--	--
MW-10-122320		12/23/2020	--	3,200	2,900	--	--	--	--
MW-10-062121		6/21/2021	--	1,100 < 210 ⁵	640 < 210 ⁵	--	--	--	--
MW-10-120921		12/9/2021	--	3,400 < 210 ⁵	3,400 < 210 ⁵	--	--	--	--
MTCA Method A Cleanup Levels⁶			800/1,000⁷	500	500	5	1,000	700	1,000

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

¹Analyzed by Northwest Method NWTPH-Gx.

²Analyzed by Northwest Method NWTPH-Dx.

³Analyzed by U.S. Environmental Protection Agency (EPA) Method 8260B.

⁴Laboratory analytical report indicated gasoline results are being influenced by the presence of diesel.

⁵Analyzed by Northwest Method NWTPH-Dx with silica-gel cleanup procedure.

⁶Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Cleanup Levels Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised November 2013.

⁷The cleanup level for GRO presented without/with the presence of benzene.

DRO = total petroleum hydrocarbons as diesel-range organics

GRO = total petroleum hydrocarbons as gasoline-range organics

N = hydrocarbons in the diesel range are impacting the oil result

ORO = total petroleum hydrocarbons as oil-range organics

U1 = the practical quantitation limit is elevated due to interferences present in the sample

Table 3
Summary of Groundwater Geochemical Parameters
Former Evergreen Fuel Facility
Shelton, Washington
Farallon PN: 863-001

Well Identification	Sample Date	Geochemical Results				
		Temperature (°C)	Specific Conductance (mS/cm)	pH (pH units)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (mV)
MW-5	4/5/2007	12.4	0.131	6.12	0.65	471.1
	7/11/2007	19.65	0.147	4.77	1.03	413.2
	10/11/2007	14.96	0.143	6.74	0.91	-10.4
	1/11/2008	11.97	0.177	6.30	0.47	99.9
	5/13/2008	NS	NS	NS	NS	NS
	10/1/2009	NS	NS	NS	NS	NS
	1/19/2010	NS	NS	NS	NS	NS
	2/16/2016	NS	NS	NS	NS	NS
	8/23/2016	NS	NS	NS	NS	NS
	8/10/2017	NS	NS	NS	NS	NS
	12/14/2017	Well Decommissioned 12/14/2017				
MW-6	4/5/2007	11.3	0.393	6.00	0.49	428.2
	7/11/2007	19.25	0.421	4.33	0.94	381.8
	10/11/2007	13.75	0.322	6.77	0.78	-82.8
	1/11/2008	9.6	0.32	6.70	0.74	-35.5
	5/13/2008	NS	NS	NS	NS	NS
	10/1/2009	NS	NS	NS	NS	NS
	1/19/2010	NS	NS	NS	NS	NS
	2/16/2016	NS	NS	NS	NS	NS
	8/23/2016	NS	NS	NS	NS	NS
	8/10/2017	NS	NS	NS	NS	NS
	12/14/2017	Well Decommissioned 12/14/2017				
MW-8	4/5/2007	11.43	0.270	6.70	1.29	443.6
	7/11/2007	21.54	0.386	4.12	0.93	511.9
	10/11/2007	14.59	0.323	7.17	1.62	68.2
	1/11/2008	8.38	0.252	7.37	2.48	-30.4
	5/13/2008	12.1	0.346	7.05	0.98	-44.4
	10/1/2009	17.53	0.468	7.21	4.22	-76
	1/19/2010	9.66	0.12	6.97	6.7	49.7
	5/1/2013	14.83	0.204	6.22	2.06	-7
	2/16/2016	10.62	0.092	6.64	4.37	147
	8/23/2016	21.60	0.235	6.72	0.61	-26
	8/10/2017	21.4	0.180	6.71	0.43	-31.5
	12/14/2017	11.0	0.190	6.64	0.71	9.1
	6/28/2018	17.7	0.224	6.46	1.03	-1.9
	12/27/2018	9.6	0.12	7.2	4.75	120.7
	6/27/2019	15.1	0.266	6.39	1.23	48.1
	12/5/2019	11.7	0.271	6.44	3.26	-255.3
	6/30/2020	18.5	0.198	13.37*	0.26	-176.5
	12/23/2020	8.9	0.082	6.96	6.18	179.6
6/21/2021	20.6	0.244	6.29	1.10	-54.8	
12/9/2021	10.0	0.191	6.55	1.15	123.6	

Table 3
Summary of Groundwater Geochemical Parameters
Former Evergreen Fuel Facility
Shelton, Washington
Farallon PN: 863-001

Well Identification	Sample Date	Geochemical Results				
		Temperature (°C)	Specific Conductance (mS/cm)	pH (pH units)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (mV)
MW-9	4/5/2007	12.44	0.361	6.12	3.57	478.6
	7/11/2007	21.25	0.56	4.64	3.41	420
	10/11/2007	15.11	0.326	6.57	6.4	79.8
	1/11/2008	8.66	0.129	7.25	1.92	69.5
	5/13/2008	NS	NS	NS	NS	NS
	10/1/2009	NS	NS	NS	NS	NS
	1/19/2010	NS	NS	NS	NS	NS
	5/1/2013	16.20	0.135	6.25	0.89	-25
	2/16/2016	10.61	0.150	6.59	2.23	85
	8/23/2016	21.80	0.860	6.78	0.54	-40
	8/10/2017	19.4	0.248	6.61	0.41	-44.9
	12/14/2017	11.8	0.194	6.74	0.51	-47.3
	6/28/2018	16.2	0.331	6.63	1.14	-10.4
	12/27/2018	10.4	0.188	6.91	4.09	132.9
	6/27/2019	15.0	0.359	6.52	1.71	65.2
	12/5/2019	11.9	0.346	6.62	3.61	-218.7
	6/30/2020	16.0	0.315	12.35*	0.32	-182.2
	12/23/2020	9.9	0.119	6.99	4.94	178.7
6/21/2021	19.7	0.281	6.68	2.90	-30.6	
12/9/2021	11.3	0.198	6.94	5.01	182.5	

Table 3
Summary of Groundwater Geochemical Parameters
Former Evergreen Fuel Facility
Shelton, Washington
Farallon PN: 863-001

Well Identification	Sample Date	Geochemical Results				
		Temperature (°C)	Specific Conductance (mS/cm)	pH (pH units)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (mV)
MW-10	4/5/2007	11.84	0.252	5.87	0.96	480.3
	7/11/2007	20.54	0.316	5.77	0.73	175
	10/11/2007	15.07	0.309	6.56	0.48	-12.7
	1/11/2008	9.4	0.141	6.66	6.13	109.8
	5/13/2008	12.21	0.209	6.72	1.28	-57.8
	10/1/2009	17.16	0.379	6.80	0.07	-91.8
	1/19/2010	10.65	0.108	6.72	1.95	23.2
	5/1/2013	13.99	0.133	5.99	1.00	-16
	2/16/2016	11.33	0.274	6.24	0.88	44
	8/23/2016	18.31	0.343	6.69	0.79	-70
	8/10/2017	18.0	0.201	6.70	0.28	-96.5
	12/14/2017	12.1	0.269	6.26	0.29	-108.9
	6/28/2018	15.5	0.277	6.70	0.9	-77.5
	12/27/2018	11.6	0.427	6.17	2.32	167.6
	6/27/2019	14.0	0.339	6.51	1.49	-15.2
	12/5/2019	13.3	0.536	6.20	2.67	-234.2
	6/30/2020	16.0	0.282	12.22*	0.24	-174.0
	12/23/2020	10.7	0.223	6.11	0.97	121.1
6/21/2021	20.7	0.273	6.22	1.03	-56.6	
12/9/2021	12.2	0.329	5.93	0.33	77.8	

NOTES:

°C = degrees Celsius

* = instrument error

mg/l = milligrams per liter

mS/cm = milliSiemens per centimeter

mV = millivolts

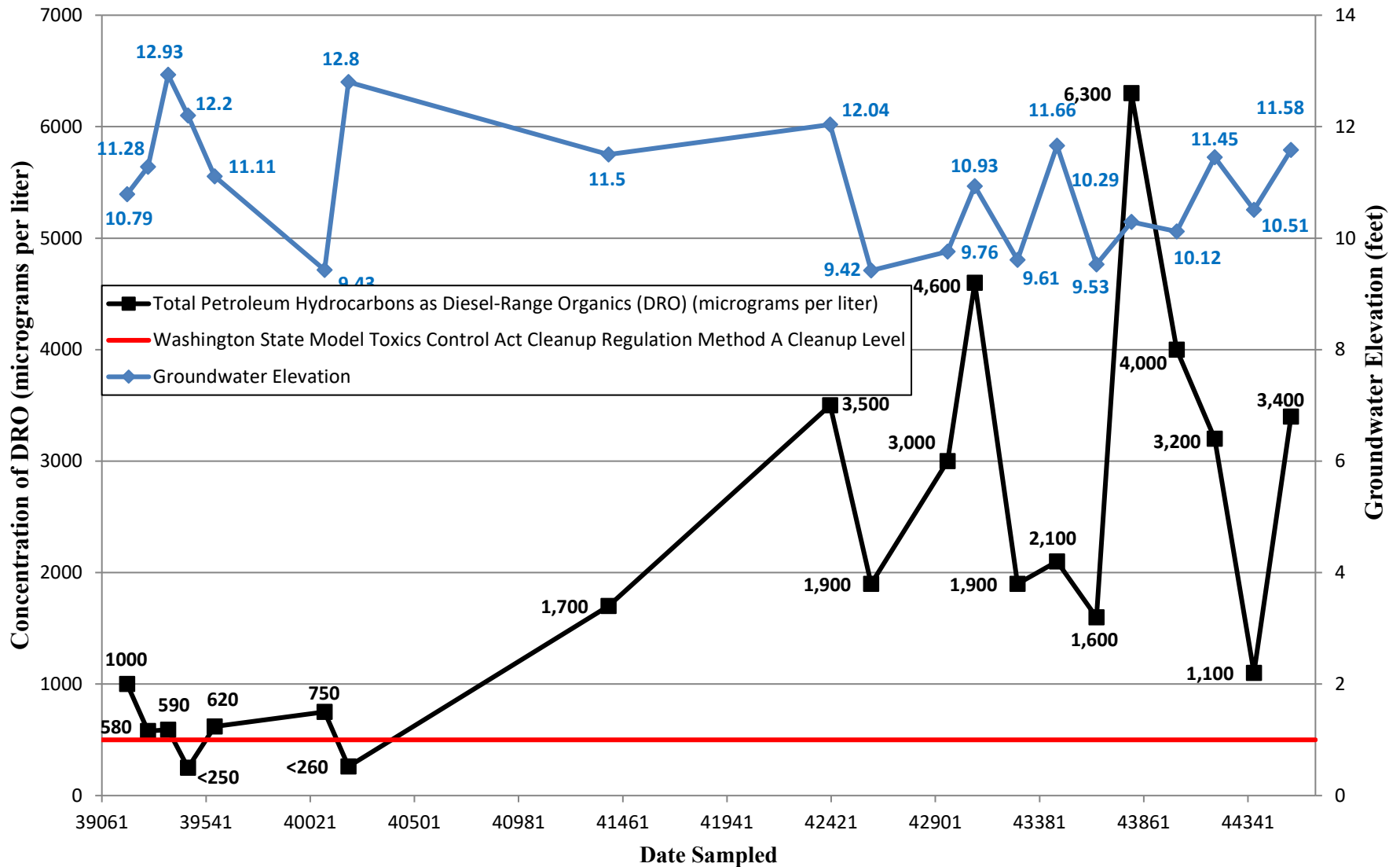
NS = not sampled

CHART

**CONFIRMATIONAL GROUNDWATER MONITORING AND SAMPLING
STATUS REPORT – 2021
Former Evergreen Fuel Facility
661 East Pine Street
Shelton, Washington**

Farallon PN: 863-001

Chart 1
DRO Concentrations in Groundwater versus Groundwater Elevation Data Trends for Monitoring Well
MW-10
Former Evergreen Fuel Facility
Shelton, Washington
Farallon PN: 863-001



**ATTACHMENT A
LABORATORY ANALYTICAL REPORTS**

CONFIRMATIONAL GROUNDWATER MONITORING AND SAMPLING
STATUS REPORT – 2021
Former Evergreen Fuel Facility
661 East Pine Street
Shelton, Washington

Farallon PN: 863-001



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

June 30, 2021

Javan Ruark
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 863-001
Laboratory Reference No. 2106-201

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on June 22, 2021.

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 "DB", 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: June 30, 2021
Samples Submitted: June 22, 2021
Laboratory Reference: 2106-201
Project: 863-001

Case Narrative

Samples were collected on June 21, 2021 and received by the laboratory on June 22, 2021. 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: June 30, 2021
 Samples Submitted: June 22, 2021
 Laboratory Reference: 2106-201
 Project: 863-001

**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-8-062121					
Laboratory ID:	06-201-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	6-28-21	6-29-21	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	6-28-21	6-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	106	50-150				

Client ID:	MW-9-062121					
Laboratory ID:	06-201-02					
Diesel Range Organics	ND	0.21	NWTPH-Dx	6-28-21	6-29-21	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	6-28-21	6-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				

Client ID:	MW-9-062121					
Laboratory ID:	06-201-02					
Diesel Range Organics	ND	0.21	NWTPH-Dx	6-28-21	6-29-21	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	6-28-21	6-29-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				

Client ID:	MW-10-062121					
Laboratory ID:	06-201-03					
Diesel Range Organics	1.1	0.21	NWTPH-Dx	6-28-21	6-29-21	
Lube Oil Range Organics	0.64	0.21	NWTPH-Dx	6-28-21	6-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	51	50-150				

Client ID:	MW-10-062121					
Laboratory ID:	06-201-03					
Diesel Range Organics	ND	0.21	NWTPH-Dx	6-28-21	6-29-21	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	6-28-21	6-29-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	65	50-150				



Date of Report: June 30, 2021
 Samples Submitted: June 22, 2021
 Laboratory Reference: 2106-201
 Project: 863-001

**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:	MB0628W1					
Diesel Range Organics	ND	0.20	NWTPH-Dx	6-28-21	6-29-21	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	6-28-21	6-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	111	50-150				
Laboratory ID:	MB0628W1					
Diesel Range Organics	ND	0.20	NWTPH-Dx	6-28-21	6-29-21	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	6-28-21	6-29-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-204-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				96	102	50-150		
Laboratory ID:	06-204-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	X1
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	X1
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				125	126	50-150		





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.
 - 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





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Chain of Custody

Turnaround Request
(In working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **06-201**

Company: Excavation Consulting
Project Number: 8003-001
Project Name: Former Evergreen Fuel Facility
Project Manager: JAVAN BUARK
Sampled by: Elise Bugge

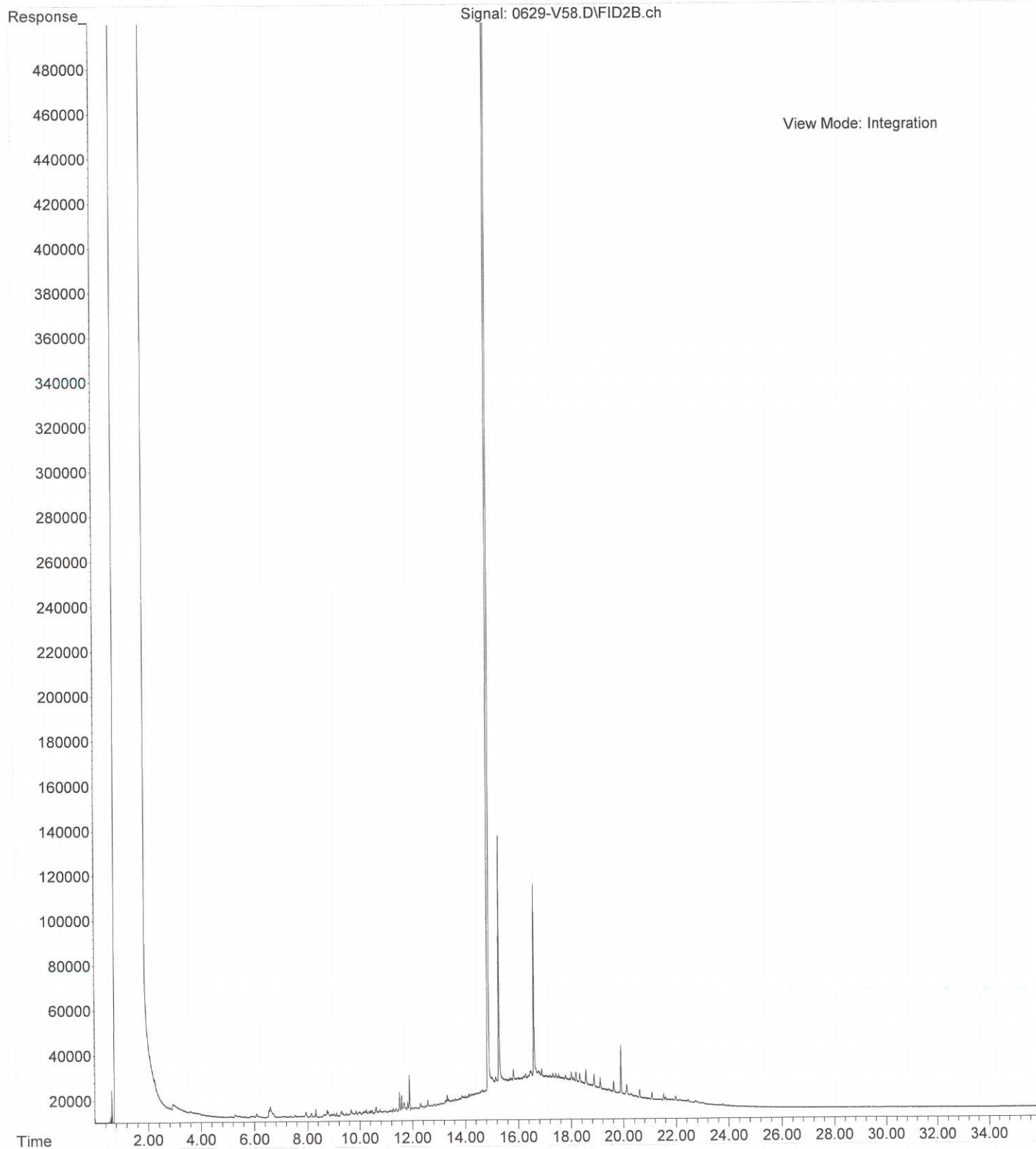
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-8-062121	6/21	1050	W	2
2	MW-9-062121	T	1124	W	2
3	MW-10-062121		1204	W	2

Analysis	Result
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up) WITHOUT CLEANUP	<input checked="" type="checkbox"/>
Volatiles 8260D	<input checked="" type="checkbox"/>
Halogenated Volatiles 8260D	<input checked="" type="checkbox"/>
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270E/SIM (with low-level PAHs)	
PAHs 8270E/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270E/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
SILICAGE 2 ACID CLEAN-UP	<input checked="" type="checkbox"/>
% Moisture	

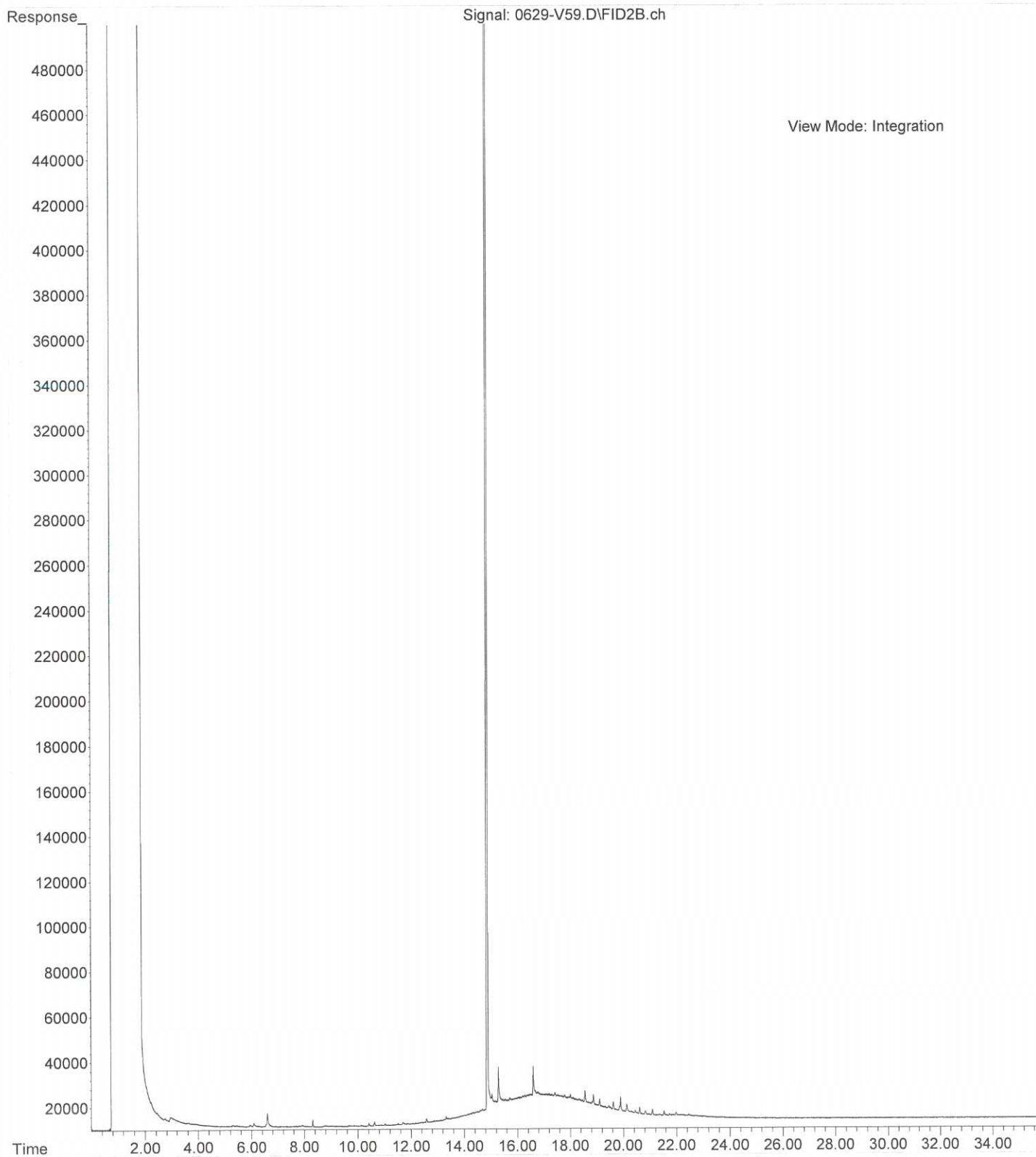
Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	FLN	6/21/21	1430	*CONTACT PM FOR ANALYSES
<u>[Signature]</u>	Speedy	6-22-21	1121	
<u>[Signature]</u>	Speedy	6-22-21	1346	
<u>[Signature]</u>	OS	6/22/21	1314	

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

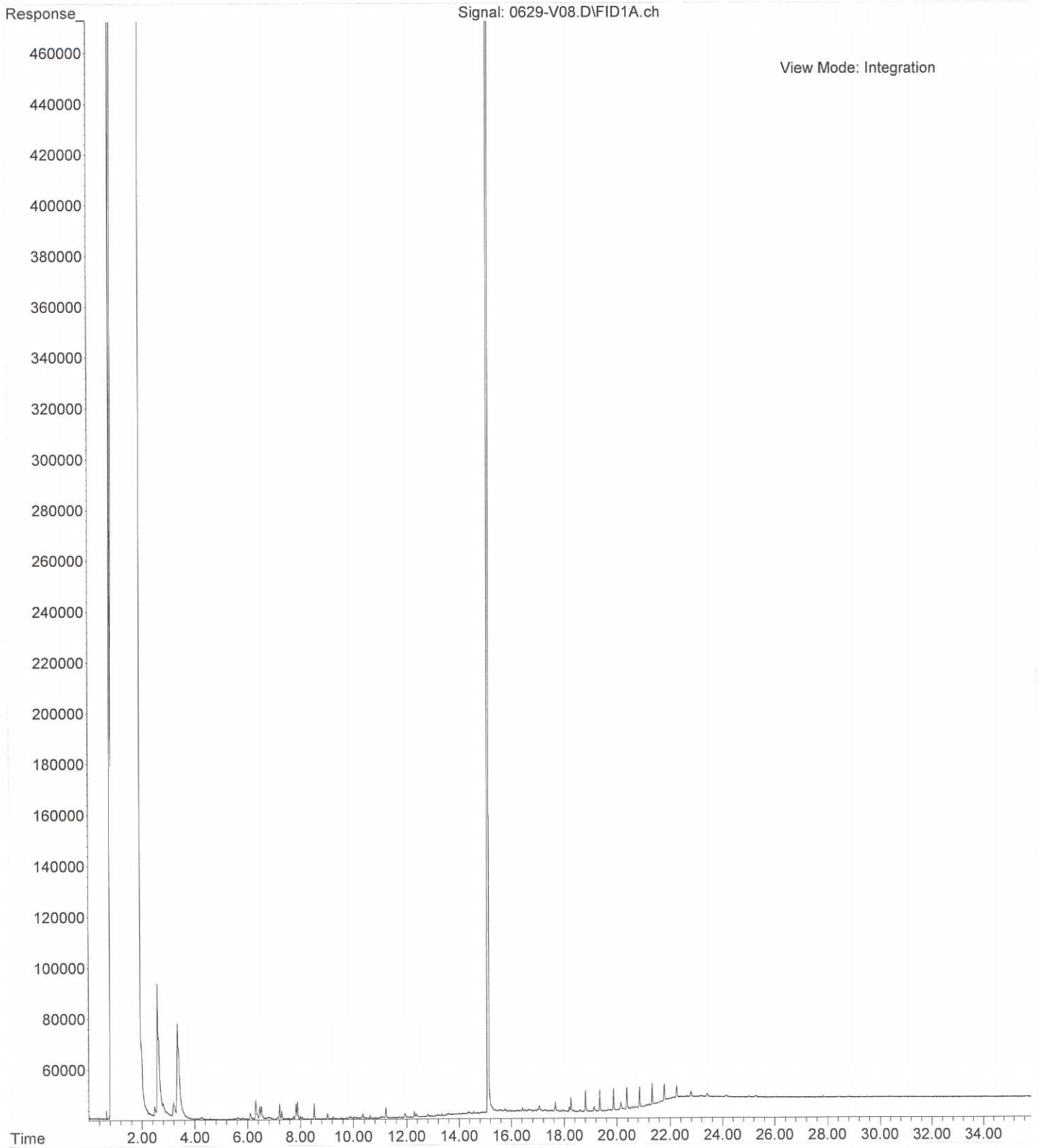
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Operator : JT
Acquired : 29 Jun 2021 10:41 using AcqMethod V210519F.M
Instrument : Vigo
Sample Name: 06-201-01
Misc Info :
Vial Number: 58



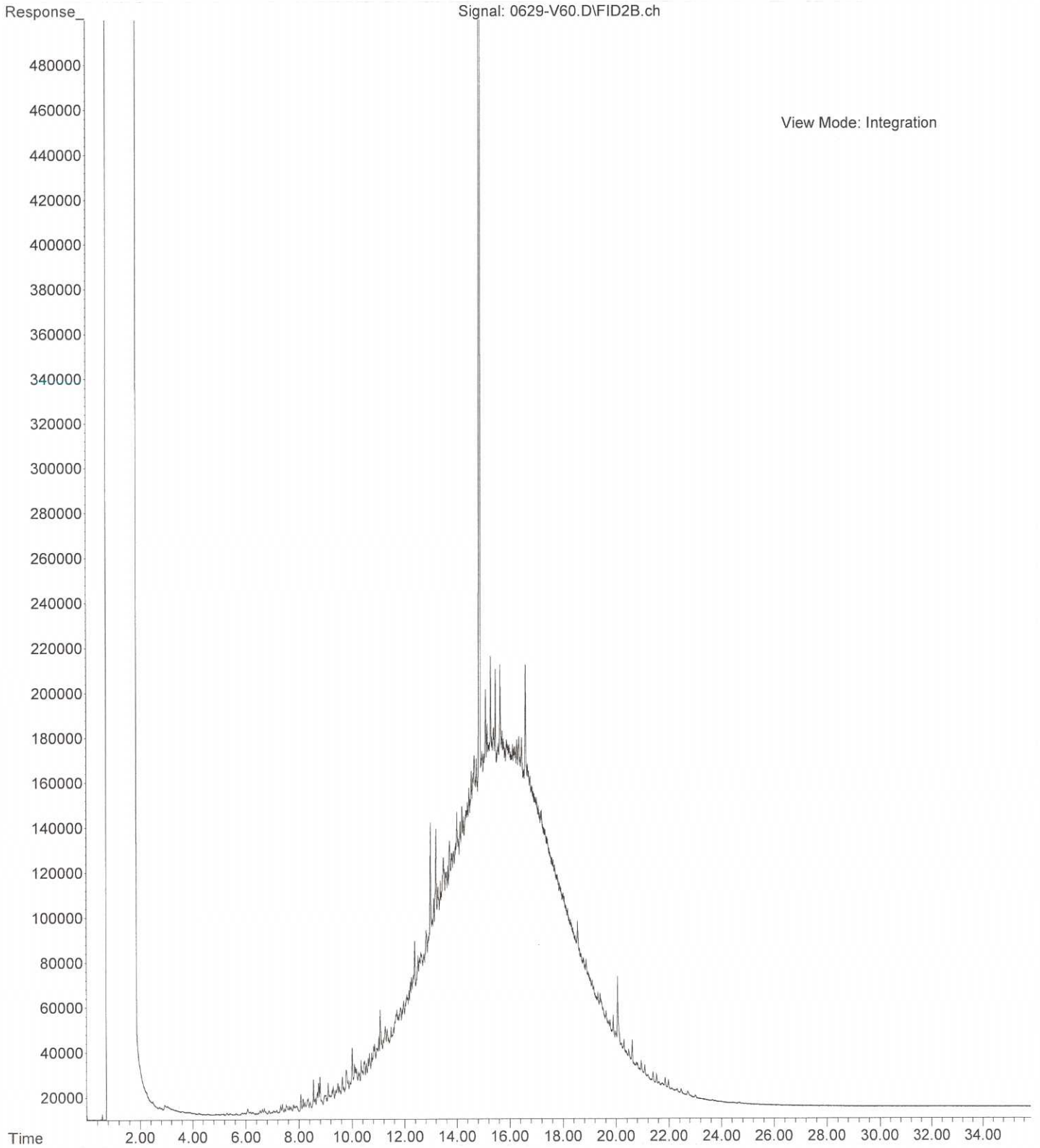
File :C:\msdchem\2\data\V210629.SEC\0629-V59.D
Operator : JT
Acquired : 29 Jun 2021 11:22 using AcqMethod V210519F.M
Instrument : Vigo
Sample Name: 06-201-02
Misc Info :
Vial Number: 59



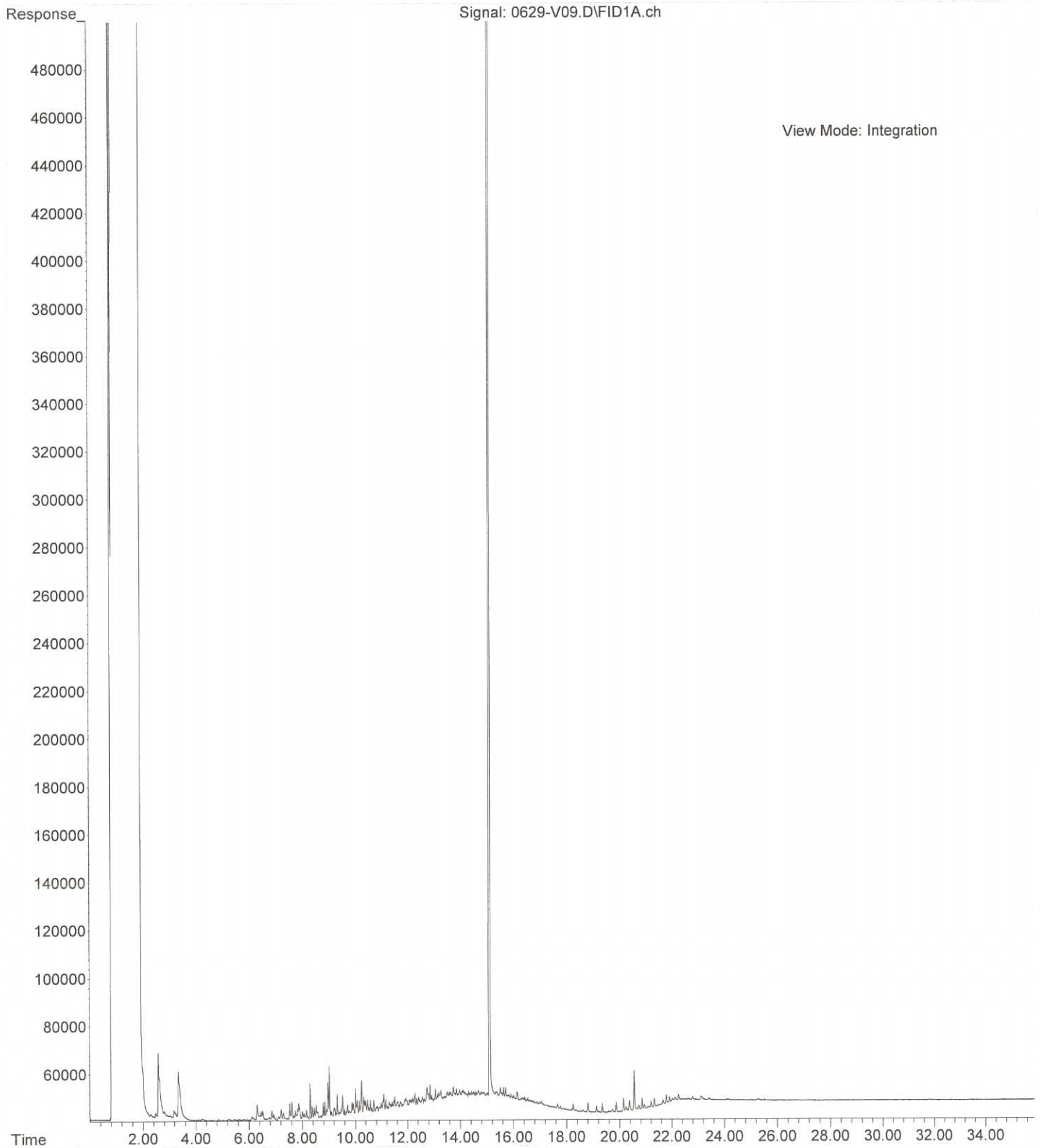
File : C:\msdchem\2\data\V210629\0629-V08.D
Operator : JT
Acquired : 29 Jun 2021 10:41 using AcqMethod V210519F.M
Instrument : Vigo
Sample Name: 06-201-02 ACU
Misc Info :
Vial Number: 8



File : C:\msdchem\2\data\V210629.SEC\0629-V60.D
Operator : JT
Acquired : 29 Jun 2021 12:03 using AcqMethod V210519F.M
Instrument : Vigo
Sample Name: 06-201-03
Misc Info :
Vial Number: 60



File : C:\msdchem\2\data\V210629\0629-V09.D
Operator : JT
Acquired : 29 Jun 2021 11:22 using AcqMethod V210519F.M
Instrument : Vigo
Sample Name: 06-201-03 ACU
Misc Info :
Vial Number: 9





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

December 21, 2021

Javan Ruark
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 863-001
Laboratory Reference No. 2112-109

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on December 10, 2021.

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 "DB", 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: December 21, 2021
Samples Submitted: December 10, 2021
Laboratory Reference: 2112-109
Project: 863-001

Case Narrative

Samples were collected on December 9, 2021 and received by the laboratory on December 10, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: December 21, 2021
 Samples Submitted: December 10, 2021
 Laboratory Reference: 2112-109
 Project: 863-001

**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-8-120921					
Laboratory ID:	12-109-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	12-17-21	12-21-21	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	12-17-21	12-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				

Client ID:	MW-8-120921					
Laboratory ID:	12-109-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	12-17-21	12-18-21	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	12-17-21	12-18-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	125	50-150				

Client ID:	MW-9-120921					
Laboratory ID:	12-109-02					
Diesel Range Organics	ND	0.21	NWTPH-Dx	12-17-21	12-18-21	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	12-17-21	12-18-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				

Client ID:	MW-9-120921					
Laboratory ID:	12-109-02					
Diesel Range Organics	ND	0.21	NWTPH-Dx	12-17-21	12-18-21	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	12-17-21	12-18-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	106	50-150				

Client ID:	MW-10-120921					
Laboratory ID:	12-109-03					
Diesel Range Organics	3.4	0.21	NWTPH-Dx	12-17-21	12-18-21	
Lube Oil Range Organics	3.4	0.21	NWTPH-Dx	12-17-21	12-18-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	133	50-150				

Client ID:	MW-10-120921					
Laboratory ID:	12-109-03					
Diesel Range Organics	ND	0.21	NWTPH-Dx	12-17-21	12-18-21	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	12-17-21	12-18-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	114	50-150				



Date of Report: December 21, 2021
 Samples Submitted: December 10, 2021
 Laboratory Reference: 2112-109
 Project: 863-001

**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:	MB1217W1					
Diesel Range Organics	ND	0.20	NWTPH-Dx	12-17-21	12-17-21	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	12-17-21	12-17-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	131	50-150				
Laboratory ID:	MB1217W1					
Diesel Range Organics	ND	0.20	NWTPH-Dx	12-17-21	12-17-21	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	12-17-21	12-17-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	122	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB1217W1							
	ORIG	DUP						
Diesel Fuel #2	0.420	0.327	NA	NA	NA	NA	25	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			107		89	50-150		
Laboratory ID:	SB1217W1							
	ORIG	DUP						
Diesel Fuel #2	0.412	0.392	NA	NA	NA	NA	5	NA X1
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			117		110	50-150		





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.
 - 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





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 Analytical Laboratory Testing Services
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Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **12-109**

Company: Evolution consulting
 Project Number: 803-001
 Project Name: Former Evergreen facility
 Project Manager: Jovan Ruark
 Sampled by: Eise Bugge

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-8-120921	12/19	1042	W	3
2	MW-9-120921	12/19	124	L	1
3	MW-10-120921	12/19	1250	L	1

Method	Result
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (Acid / SG Clean-up)	<input checked="" type="checkbox"/>
Volatiles 8260D	
Halogenated Volatiles 8260D	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270E/SIM (with low-level PAHs)	
PAHs 8270E/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270E/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<u>Eise Bugge</u>	<u>ELN</u>	<u>12/19/21</u>	<u>1500</u>	<u>*DRO + ORO w/ + w/o SG cleanup</u>
<u>[Signature]</u>	<u>[Signature]</u>	<u>12/19/21</u>	<u>8:45</u>	
<u>[Signature]</u>	<u>[Signature]</u>	<u>12/19/21</u>	<u>10:35</u>	
<u>[Signature]</u>	<u>[Signature]</u>	<u>12/19/21</u>	<u>1035</u>	

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