

February 1, 2019

Mr. Nicholas Acklam
VCP/II-SHA/LUST Unit Supervisor
Toxics Cleanup Program – Southwest Regional Office
Washington State Department of Ecology
PO Box 47775
Olympia, Washington 98504-7775

BY EMAIL AND MAIL

**RE: CONFIRMATIONAL GROUNDWATER MONITORING AND SAMPLING
STATUS REPORT – 2018
FORMER EVERGREEN FUEL FACILITY
661 EAST PINE STREET
SHELTON, WASHINGTON
FARALLON PN: 863-001**

Dear Mr. Acklam:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter to present the results of the June and December 2018 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 include total petroleum hydrocarbons as gasoline-range organics (GRO), as diesel-range organics (DRO), and as oil-range organics (ORO); and/or 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 conformational groundwater sampling also was conducted 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* dated August 25, 2014, from Mr. Scott Rose of Ecology to Mr. Peter Jewett of Farallon (Ecology Comments Letter); and
- Email regarding Evergreen Fuels Monitoring dated August 6, 2015, from Mr. Jason Landskron of Ecology to Mr. 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 the 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 included GRO, DRO, ORO, and BTEX, at concentrations exceeding applicable regulatory cleanup levels. The excavation areas were backfilled with quarry spalls to above the water table at approximately 3 feet below ground surface. A total of 4,000 pounds of Advanced Oxygen Release Compound manufactured by Regenesis 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. Following completion of the

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excavation portion of the cleanup action, an Environmental Covenant was placed on the Site prohibiting use of groundwater as a potable water source at the Site, and identifying areas where contaminated soil could not practicably be removed due to the presence of the bulkhead retaining wall, State Route 3, and utilities along State Route 3 (Figure 2). Confirmational groundwater monitoring and sampling were initiated to document the effects of the source removal action and ongoing biodegradation of the residual COCs in groundwater. The Site currently is unpaved and used as a parking lot for the Port of Shelton Marina.

Confirmational groundwater monitoring and sampling conducted from 2007 to 2013 indicate that source removal and oxygen release compound treatment have 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 a letter regarding Request for No Further Action Determination, Evergreen Fuel Facility, 661 East Pine Street, Shelton, Washington, from Messrs. Ruark and Jewett to Mr. Dominick Reale of Ecology, on March 10, 2014 (Request Letter). In 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. The additional performance soil and confirmational groundwater monitoring and sampling required by Ecology included the following:

- Collecting additional soil samples at locations where residual COCs were left in-place to determine whether current concentrations are less than MTCA Method A cleanup levels for protection of groundwater. If concentrations of residual COCs still exceed MTCA Method A cleanup levels, the locations with the highest concentrations of DRO will 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 have been achieved and

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

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

- Confirmational groundwater monitoring and sampling will be conducted in accordance the AO and will include monitoring wells MW-8 through MW-10; and
- Monitoring wells MW-5 and MW-6, which were covered during regrading activities for the parking lot at the Site, are 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 the ongoing confirmational groundwater monitoring and sampling until groundwater quality meets MTCA Method A cleanup levels for all COCs at the Site, and confirmation of achieving the cleanup standards in the media of concern is necessary to support a closure request. The required confirmational groundwater monitoring and sampling is described in the sections that follow.

CONFIRMATIONAL GROUNDWATER MONITORING AND SAMPLING

Confirmational groundwater monitoring and sampling events were conducted on June 28 and December 27, 2018 at monitoring wells MW-8 through MW-10 (Figure 2). The confirmational groundwater monitoring included measuring the depth to groundwater at all accessible monitoring wells and collecting groundwater samples for laboratory analysis from monitoring wells MW-8 through MW-10. Upon Farallon's arrival at the Site, monitoring wells MW-8 through MW-10

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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 a flow rate of 200 milliliters per minute. The tubing intake was placed at 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 included temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential. Each monitoring well was purged until water-quality parameters temperature, pH, specific conductance, dissolved oxygen, and oxidation-reduction potential 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. Analysis for GRO and BTEX was not performed based on the following:

- Previous analytical data demonstrated that concentrations of GRO and/or BTEX were less than MTCA Method A cleanup levels in samples collected from the Site for four consecutive quarters; and
- Ecology did not request further analysis for GRO or BTEX in the Ecology Comments Letter.

Purge water generated during the 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 28 and December 28, 2018 are presented below. The groundwater-level measurements and elevations are summarized in Table 1. Groundwater elevation contours for the June 28 and December 27, 2018 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. Figures 6 and 7 depict the trends in concentrations of DRO and groundwater elevations at monitoring wells MW-9 and MW-10, respectively. The groundwater geochemical parameters are summarized in Table 3. The laboratory analytical reports are provided in Attachment A.

The June 28 and December 27, 2018 groundwater elevation data indicate a southeastern groundwater flow direction toward Oakland Bay (Figures 3 and 4). During the June 28, 2018 confirmational groundwater monitoring event, groundwater levels were measured during a low tide cycle, which had a minimum height of -1.48 feet below mean sea level at 1:53 p.m. according to National Ocean Service tidal prediction data (<https://tidesandcurrents.noaa.gov/noaatidepredictions.html?id=9446628&units=standard&bdate=20180628&edate=20180628&timezone=LST/LDT&clock=12hour&datum=MLLW&interval=hilo&action=dailychart>) as accessed on January 17, 2019. During the December 27, 2018 confirmational groundwater monitoring event, groundwater levels were measured during a high tide cycle, which had a maximum height of 16.29 feet above mean sea level at 10:25 a.m. according to the National Ocean Service tidal prediction data (<https://tidesandcurrents.noaa.gov/noaatidepredictions.html?id=9446628&units=standard&bdate=20181227&edate=20181227&timezone=LST/LDT&clock=12hour&datum=MLLW&interval=hilo&action=dailychart>) as accessed on January 17, 2019.

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Groundwater analytical results for monitoring well MW-10 included the following:

- DRO was detected at concentrations exceeding the MTCA Method A cleanup level during the June 28 and December 27, 2018 confirmational groundwater monitoring and sampling events (Table 2; Figure 5); and
- ORO was not detected at concentrations exceeding laboratory PQLs during the June 28 and December 27, 2018 confirmational groundwater monitoring and sampling events (Table 2; Figure 5).

Groundwater analytical results for monitoring well MW-9 included the following:

- DRO was detected at a concentration exceeding the laboratory PQL but less than the MTCA Method A cleanup level during the December 27, 2018 confirmational groundwater monitoring and sampling event (Table 2; Figure 5). DRO was not detected at a concentration exceeding the laboratory PQL during the June 28, 2018 confirmational groundwater monitoring and sampling event.
- ORO was not detected at concentrations exceeding laboratory PQLs during the June 28 and December 27, 2018 confirmational groundwater monitoring and sampling events (Table 2; Figure 5).

Groundwater analytical results for monitoring well MW-8 included the following:

- DRO and ORO were not detected at concentrations exceeding laboratory PQLs during the June 28 and December 27, 2018 confirmational groundwater monitoring and sampling events (Table 2; Figure 5).

CONCLUSIONS

DRO and ORO concentrations at monitoring wells MW-8 and MW-9 were less than the MTCA Method A cleanup levels, which is consistent with the historical DRO and ORO concentration trends at these monitoring wells.

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The highest detected concentrations of DRO during the 2018 confirmational groundwater monitoring and sampling events were observed at monitoring well MW-10 on December 27, 2018, which correlates with seasonal high groundwater elevation data (Figure 7). The DRO concentration trend at monitoring well MW-10 indicates that concentrations of DRO historically have correlated with groundwater elevation data beginning in May 2013 (Figure 7), which is consistent with historical groundwater monitoring data indicating that shallow groundwater is not tidally influenced. Concentrations of DRO detected in groundwater during the July and December 2018 confirmational groundwater monitoring and sampling events were less than the concentrations of DRO detected in groundwater during the July and December 2017 confirmational groundwater monitoring and sampling events. Residual soil contamination proximate to monitoring well MW-10 that was left in-place following the cleanup activities may be desorbing from the soil matrix at times when groundwater is in direct contact with affected soil. The residual soil contamination likely is up- or cross-gradient of monitoring well MW-10. The prior remedial investigation work leading up to the cleanup action has indicated that DRO and associated compounds comprising the petroleum release(s) in the shallow groundwater do not pose a threat to human or marine receptors. The fluctuations in DRO concentrations observed do not require further action to protect human health and the environment. Continued monitoring will be required to evaluate the stability of DRO in groundwater in this area of the Site.

The results from the confirmational groundwater sampling conducted from 2007 to 2018 demonstrate that soil contamination left in-place is continuing to result in an exceedance of the MTCA Method A cleanup level for DRO in groundwater at monitoring well MW-10, and that further confirmational groundwater monitoring and sampling is warranted at the Site to comply with the AO and evaluate whether further action is required to meet the cleanup action objectives.

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 28, 2018*
Figure 4, *Groundwater Elevation Contours and Flow Direction, December 27, 2018*
Figure 5, *Groundwater Analytical Data*
Figure 6, *DRO Concentrations versus Groundwater Elevation Data Trends for Monitoring Well MW-9*
Figure 7, *DRO Concentrations versus Groundwater Elevation Data Trends for Monitoring Well MW-10*
Table 1, *Summary of Groundwater Elevation Data*
Table 2, *Summary of Groundwater Analytical Results*
Table 3, *Summary of Groundwater Geochemical Parameters*
Attachment A, *Laboratory Analytical Reports*

cc: William Joyce, Joyce Ziker Parkinson, PLLC (by email)
Brandon Palmer, Port of Shelton (by email)
Dan Carrier, Chevron U.S.A. Inc (by email)

JR/JK:mm

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FIGURES

CONFIRMATIONAL GROUNDWATER MONITORING AND SAMPLING
STATUS REPORT – 2018
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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Drawn By: sgraynier

Checked By: JR

Date: 6/6/2018

Disc Reference:

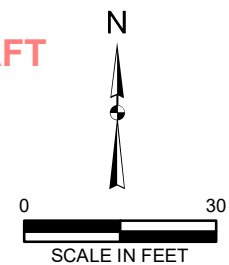
FIGURE 1
SITE VICINITY MAP
FORMER EVERGREEN FUEL FACILITY
661 EAST PINE STREET
SHELTON, WASHINGTON
FARALLON PN: 863-001

Document Path: Q:\Projects\863 Former Evergreen Fuel\Figure 1.mxd



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

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Drawn By: sgaynier Checked By: JR Date: 3/30/2018






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




FARALLON PN: 863-001

Disc Reference:
Document Path: Q:\Projects\863 Former Evergreen Fuel\Figure 2 SitePlan.mxd



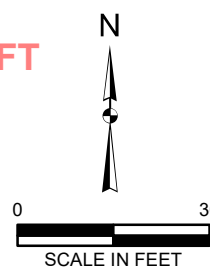
LEGEND

-  UTILITY POLE
-  FIRE HYDRANT
-  MONITORING WELL (FARALLON 2005 AND 2007)
-  DECOMMISSIONED MONITORING WELL (FARALLON 12/14/2017)
-  SITE BOUNDARY

-  GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
-  GROUNDWATER FLOW DIRECTION
-  GROUNDWATER ELEVATION (06/28/18)

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




Oregon
Portland | Bend | Baker City




California
Oakland | Folsom | Irvine

FIGURE 3
 GROUNDWATER ELEVATION CONTOURS
 AND FLOW DIRECTION
 JUNE 28, 2018
 FORMER EVERGREEN FUEL FACILITY
 661 EAST PINE STREET
 SHELTON, WASHINGTON
 FARALLON PN: 863-001



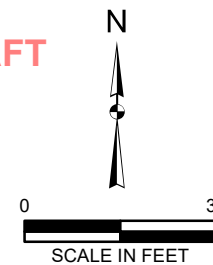
LEGEND

-  UTILITY POLE
-  FIRE HYDRANT
-  MONITORING WELL (FARALLON 2005 AND 2007)
-  DECOMMISSIONED MONITORING WELL (FARALLON 12/14/2017)
-  SITE BOUNDARY

-  GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
-  GROUNDWATER FLOW DIRECTION
-  GROUNDWATER ELEVATION (12/27/18)

NOTES:
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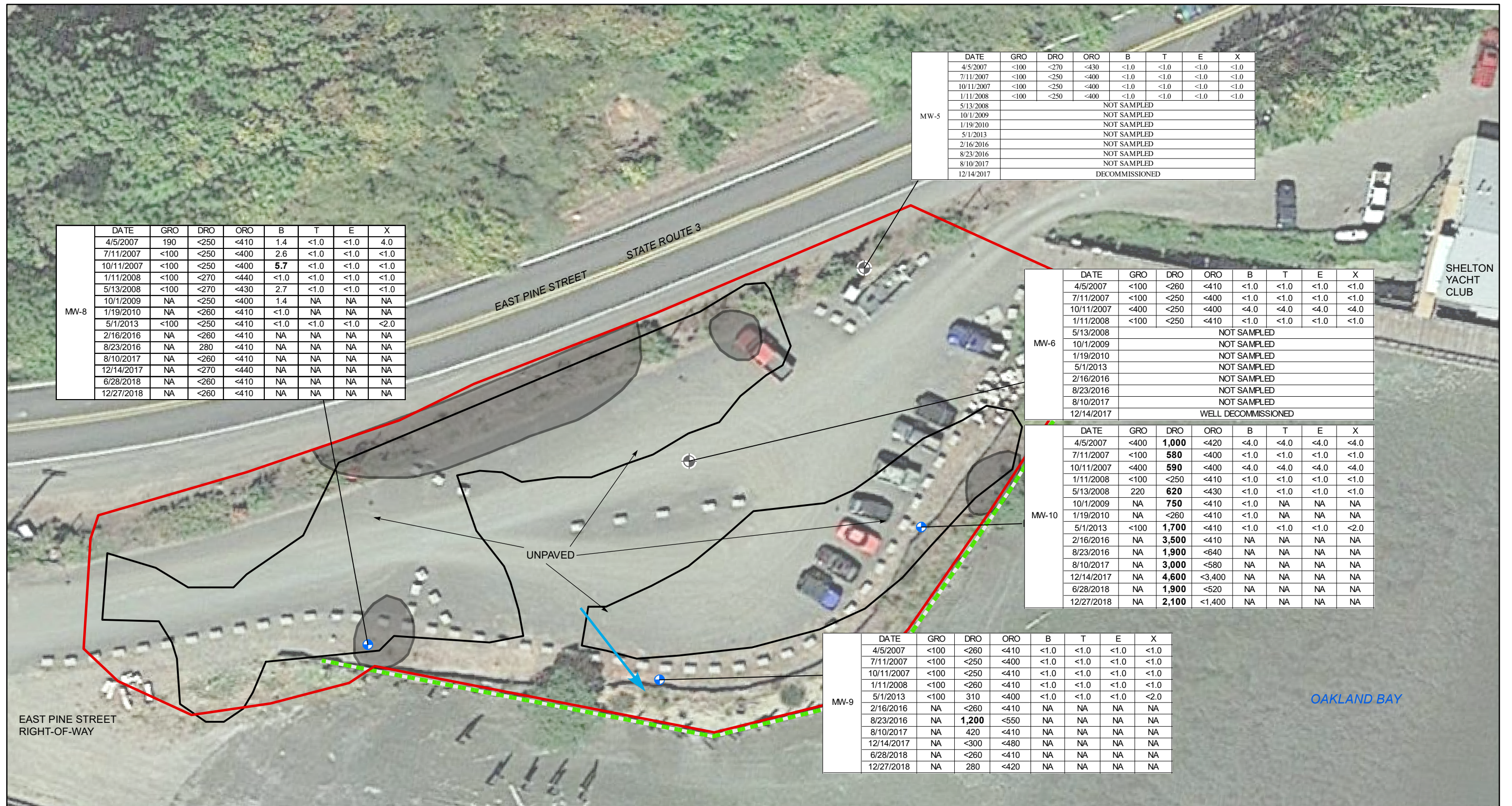
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FIGURE 4
 GROUNDWATER ELEVATION CONTOURS AND FLOW DIRECTION
 DECEMBER 27, 2018
 FORMER EVERGREEN FUEL FACILITY
 661 EAST PINE STREET
 SHELTON, WASHINGTON
 FARALLON PN: 863-001



| | 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 |

| | 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 | | | | | | | |
| | 10/1/2009 | | | | | | | |
| | 1/19/2010 | | | | | | | |
| | 5/1/2013 | | | | | | | |
| | 2/16/2016 | | | | | | | |
| | 8/23/2016 | | | | | | | |
| | 8/10/2017 | | | | | | | |
| | 12/14/2017 | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | 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 | | | | | | | |
| | 10/1/2009 | | | | | | | |
| | 1/19/2010 | | | | | | | |
| | 5/1/2013 | | | | | | | |
| | 2/16/2016 | | | | | | | |
| | 8/23/2016 | | | | | | | |
| | 8/10/2017 | | | | | | | |
| | 12/14/2017 | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | 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 |

| | 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 |

LEGEND

- MONITORING WELL (FARALLON 2005 AND 2017)
- DECOMMISSIONED MONITORING WELL (FARALLON 2017)
- APPROXIMATE SITE BOUNDARY
- INFERRED GROUNDWATER FLOW DIRECTION

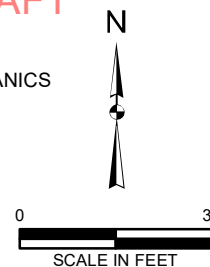
- BULKHEAD RETAINING WALL
- FORMER EXCAVATION
- RESIDUAL SOIL CONTAMINATION AREA

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

NOTES:

UNITS 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 EXCEEDED THE WASHINGTON STATE MODEL TOXICS CONTROL ACT (MTCA) METHOD A CLEANUP LEVEL
 < = ANALYTE NOT DETECTED AT OR EXCEEDING THE PRACTICAL QUANTITATION LIMIT LISTED

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Washington
Issaquah | Bellingham | Seattle

Oregon
Portland | Bend | Baker City

California
Oakland | Folsom | Irvine

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Checked By: JR

Date: 1/24/2019

Disc Reference:

Document Path: Q:\Projects\863 Former Evergreen Fuel\Mapfiles\GW Monitoring_1812\Figure 05_GW DATA 2018.mxd

FIGURE 5

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

FARALLON PN: 863-001

Figure 6
DRO Concentrations versus Groundwater Elevation Data Trends for Monitoring Well MW-9
Former Evergreen Fuel Facility
Shelton, Washington
Farallon PN: 863-001

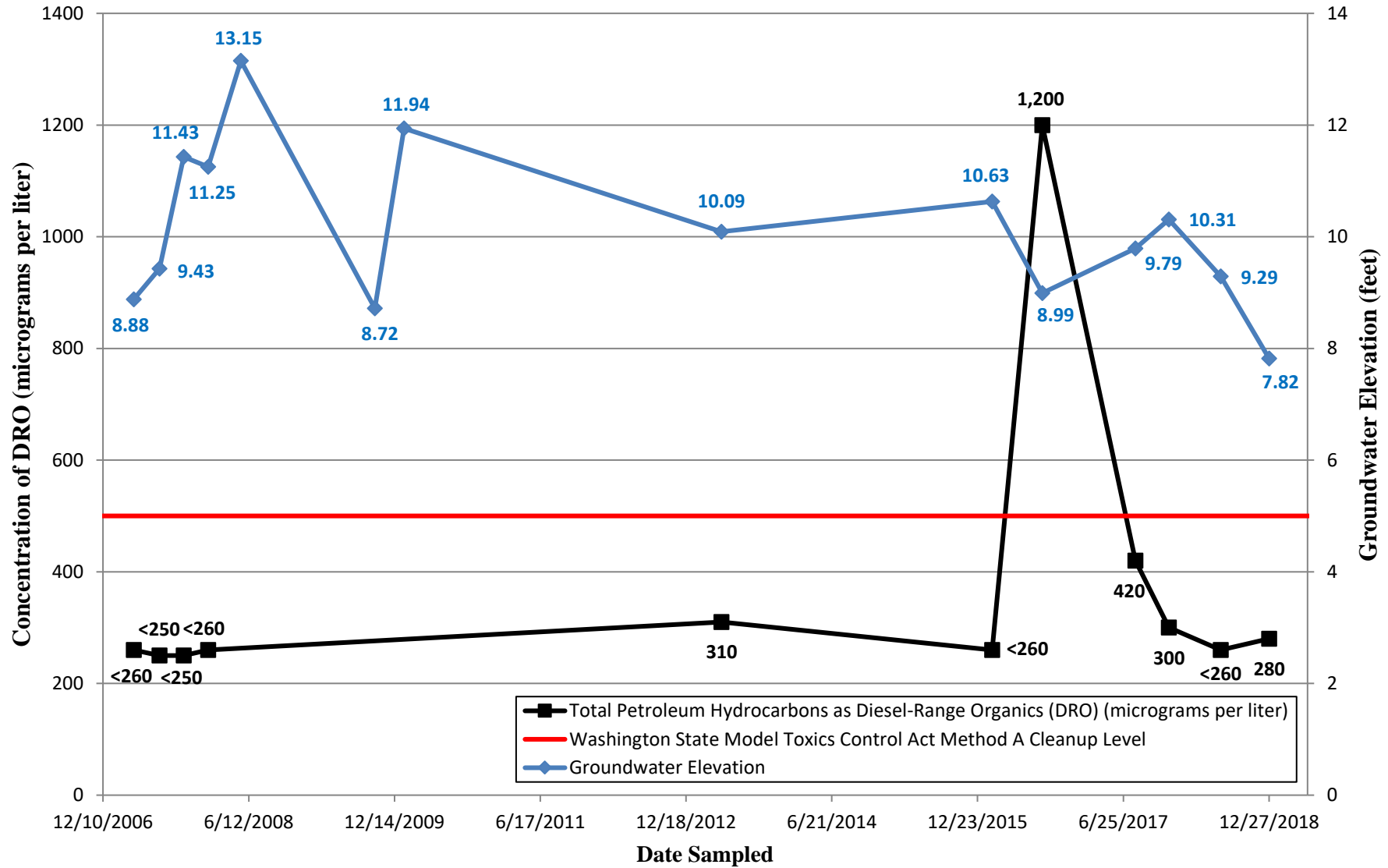
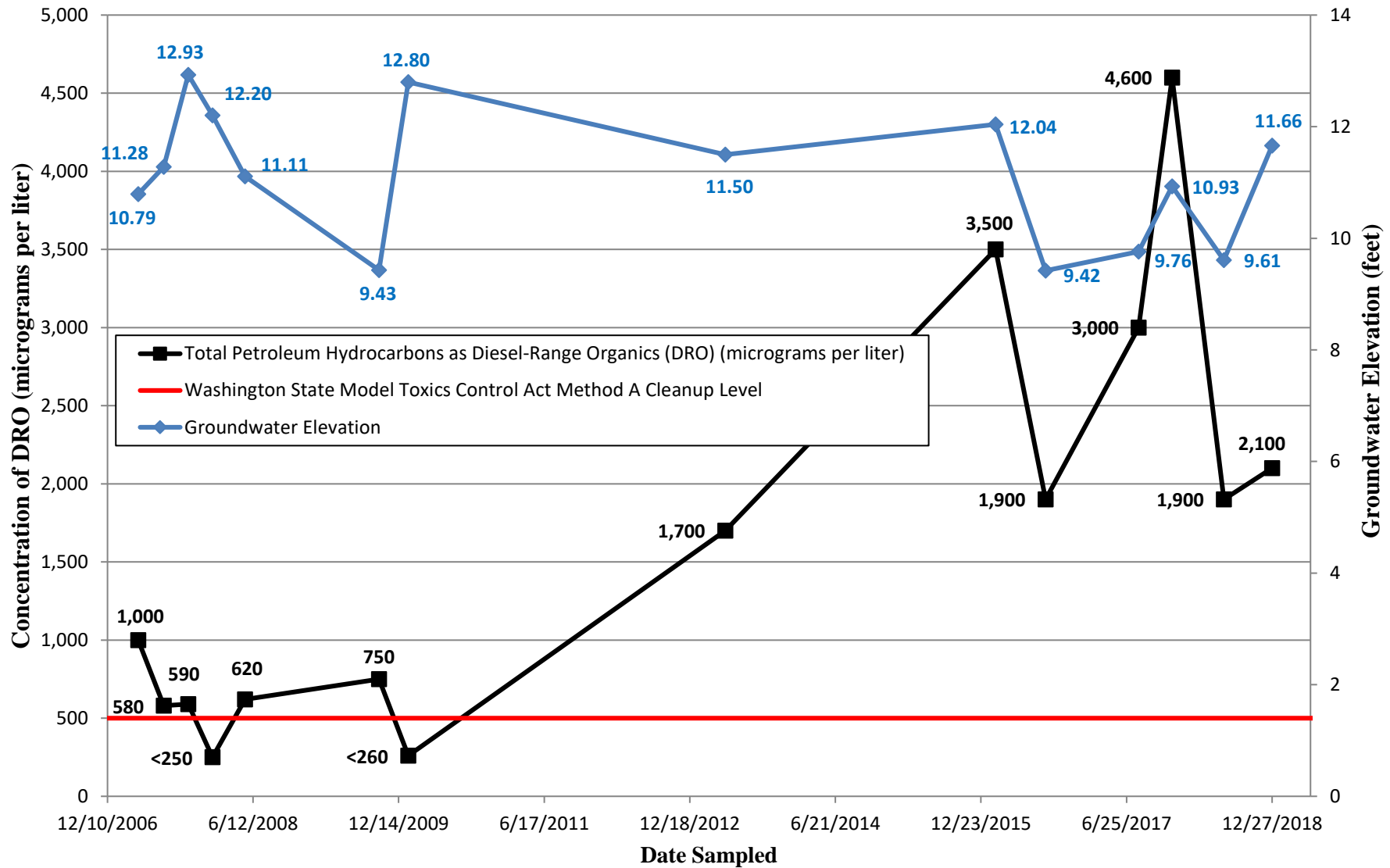


Figure 7
DRO Concentrations versus Groundwater Elevation Data Trends for Monitoring Well MW-10
Former Evergreen Fuel Facility
Shelton, Washington
Farallon PN: 863-001



TABLES

**CONFIRMATIONAL GROUNDWATER MONITORING AND SAMPLING
STATUS REPORT – 2018
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-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 | | | | |

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 | | | | |
| 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 | | | | |

NOTES:

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

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

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

NM = not measured

NA = not available

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 | Xylenes ³ |
| MW5-040507 | MW-5 | 4/5/2007 | <100 | <270 | <430 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW5-071107 | | 7/11/2007 | <100 | <250 | <400 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW5-101107 | | 10/11/2007 | <100 | <250 | <400 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW5-011108 | | 1/11/2008 | <100 | <250 | <400 | <1.0 | <1.0 | <1.0 | <1.0 |
| NS | | 5/13/2008 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 10/1/2009 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 1/19/2010 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 5/1/2013 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 2/16/2016 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 8/23/2016 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 8/10/2017 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 12/14/2017 | Well Decommissioned 12/14/2017 | | | | | | |
| MW6-040507 | MW-6 | 4/5/2007 | <100 | <260 | <410 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW6-071107 | | 7/11/2007 | <100 | <250 | <400 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW6-101107 | | 10/11/2007 | <400 | <250 | <400 | <4.0 | <4.0 | <4.0 | <4.0 |
| MW6-011108 | | 1/11/2008 | <100 | <250 | <410 | <1.0 | <1.0 | <1.0 | <1.0 |
| NS | | 5/13/2008 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 10/1/2009 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 1/19/2010 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 5/1/2013 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 2/16/2016 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 8/23/2016 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 8/10/2017 | -- | -- | -- | -- | -- | -- | -- |
| NS | | 12/14/2017 | Well Decommissioned 12/14/2017 | | | | | | |
| 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 | -- | -- | -- | -- |
| MW9-040507 | | MW-9 | 4/5/2007 | <100 | <260 | <410 | <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 | <410 | -- | -- | -- | -- |

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 | 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 | -- | -- | -- | -- |
| MTCA Method A Cleanup Levels⁵ | | | 800/1,000⁶ | 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.

¹ Analyzed by Northwest Method NWTPH-Gx.

² Analyzed by Northwest Method NWTPH-Dx.

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

⁴ Laboratory analytical report indicates gasoline results are being influenced by the presence of steel.

⁵ Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code as revised November 2013.

⁶ The cleanup level for GRO is without/with the presence of benzene.

DRO = total petroleum hydrocarbons as diesel-range organics

GRO = total petroleum hydrocarbons as gasoline-range organics

NS = not sampled

ORO = total petroleum hydrocarbons as oil-range organics

QA/QC = quality assurance/quality control

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 |

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 |
| 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 |

NOTES:

°C = degrees Celsius

mS/cm = millisemens per centimeter

mg/l = milligrams per liter

mV = millivolts

NS = not sampled

**ATTACHMENT A
LABORATORY ANALYTICAL REPORTS**

CONFIRMATIONAL GROUNDWATER MONITORING AND SAMPLING
STATUS REPORT – 2018
Former Evergreen Fuel Facility
661 East Pine Street
Shelton, Washington

Farallon PN: 863-001



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

July 5, 2018

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

Re: Analytical Data for Project 863-001
Laboratory Reference No. 1806-303

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on June 29, 2018.

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 flourish 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: July 5, 2018
Samples Submitted: June 29, 2018
Laboratory Reference: 1806-303
Project: 863-001

Case Narrative

Samples were collected on June 28, 2018 and received by the laboratory on June 29, 2018. 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: July 5, 2018
 Samples Submitted: June 29, 2018
 Laboratory Reference: 1806-303
 Project: 863-001

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | MW-8-062818 | | | | | |
| Laboratory ID: | 06-303-01 | | | | | |
| Diesel Range Organics | ND | 0.26 | NWTPH-Dx | 7-2-18 | 7-2-18 | |
| Lube Oil Range Organics | ND | 0.41 | NWTPH-Dx | 7-2-18 | 7-2-18 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 99 | 50-150 | | | | |
| Client ID: | MW-9-062818 | | | | | |
| Laboratory ID: | 06-303-02 | | | | | |
| Diesel Range Organics | ND | 0.26 | NWTPH-Dx | 7-2-18 | 7-2-18 | |
| Lube Oil Range Organics | ND | 0.41 | NWTPH-Dx | 7-2-18 | 7-2-18 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 105 | 50-150 | | | | |
| Client ID: | MW-10-062818 | | | | | |
| Laboratory ID: | 06-303-03 | | | | | |
| Diesel Range Organics | 1.9 | 0.26 | NWTPH-Dx | 7-2-18 | 7-2-18 | |
| Lube Oil Range Organics | ND | 0.52 | NWTPH-Dx | 7-2-18 | 7-2-18 | U1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 106 | 50-150 | | | | |



Date of Report: July 5, 2018
 Samples Submitted: June 29, 2018
 Laboratory Reference: 1806-303
 Project: 863-001

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0702W1 | | | | | |
| Diesel Range Organics | ND | 0.25 | NWTPH-Dx | 7-2-18 | 7-2-18 | |
| Lube Oil Range Organics | ND | 0.40 | NWTPH-Dx | 7-2-18 | 7-2-18 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | <i>87</i> | <i>50-150</i> | | | | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|--------------------|-----------|-------------|---------------|------------------|-----------------|---------------|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 06-303-01 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Diesel Range | ND | ND | NA | NA | NA | NA | NA | NA |
| Lube Oil Range | ND | ND | NA | NA | NA | NA | NA | NA |
| <i>Surrogate:</i> | | | | | | | | |
| <i>o-Terphenyl</i> | | | | <i>99</i> | <i>103</i> | <i>50-150</i> | | |





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 method 8260C, 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.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 893-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number: **06-303**

Company: Faallon
Project Number: 863-001
Project Name: Former Evergreen Fuel Facility
Project Manager: Jayann Ruark
Sampled by: Ryan Ostrow

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers |
|--------|-----------------------|--------------|--------------|--------|----------------------|
| 1 | MW-8-062818 | 6/28/18 | 1115 | W | 2 |
| 2 | MW-9-062818 | | 1249 | | 2 |
| 3 | MW-10-062818 | | 1340 | | 2 |

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

| Signature | Company | Date | Time | Comments/Special Instructions |
|-----------|---------|---------|------|-------------------------------|
| | Faallon | 6/28/18 | 1715 | |
| | Faallon | 6/29/18 | 1130 | |

Relinquished
Received
Relinquished
Received
Relinquished
Received
Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

January 2, 2019

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

Re: Analytical Data for Project 863-001
Laboratory Reference No. 1812-261

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on December 28, 2018.

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: January 2, 2019
Samples Submitted: December 28, 2018
Laboratory Reference: 1812-261
Project: 863-001

Case Narrative

Samples were collected on December 27, 2018 and received by the laboratory on December 28, 2018. 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: January 2, 2019
 Samples Submitted: December 28, 2018
 Laboratory Reference: 1812-261
 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-8-122718 | | | | | |
| Laboratory ID: | 12-261-01 | | | | | |
| Diesel Range Organics | ND | 0.26 | NWTPH-Dx | 12-31-18 | 12-31-18 | |
| Lube Oil Range Organics | ND | 0.41 | NWTPH-Dx | 12-31-18 | 12-31-18 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 106 | 50-150 | | | | |
| Client ID: | MW-9-122718 | | | | | |
| Laboratory ID: | 12-261-02 | | | | | |
| Diesel Range Organics | 0.28 | 0.26 | NWTPH-Dx | 12-31-18 | 12-31-18 | |
| Lube Oil Range Organics | ND | 0.42 | NWTPH-Dx | 12-31-18 | 12-31-18 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 85 | 50-150 | | | | |
| Client ID: | MW-10-122718 | | | | | |
| Laboratory ID: | 12-261-03 | | | | | |
| Diesel Range Organics | 2.5 | 0.26 | NWTPH-Dx | 12-31-18 | 12-31-18 | |
| Lube Oil Range Organics | ND | 1.4 | NWTPH-Dx | 12-31-18 | 12-31-18 | U1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 82 | 50-150 | | | | |



Date of Report: January 2, 2019
 Samples Submitted: December 28, 2018
 Laboratory Reference: 1812-261
 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: | MB1231W1 | | | | | |
| Diesel Range Organics | ND | 0.25 | NWTPH-Dx | 12-31-18 | 12-31-18 | |
| Lube Oil Range Organics | ND | 0.40 | NWTPH-Dx | 12-31-18 | 12-31-18 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 95 | 50-150 | | | | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|--------------------|-----------|-------------|---------------|------------------|-----------------|--------|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 12-258-04 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Diesel Range | ND | ND | NA | NA | NA | NA | NA | NA |
| Lube Oil Range | ND | ND | NA | NA | NA | NA | NA | NA |
| <i>Surrogate:</i> | | | | | | | | |
| <i>o-Terphenyl</i> | | | | 105 | 108 | 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.
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 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
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 - I - Compound recovery is outside of the control limits.
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 - 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 method 8260C, 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.
 - 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)

Laboratory Number:

12-261

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Company: Facallon
 Project Number: 8163-001
 Project Name: Former Evergreen Fueling Facility
 Project Manager: Juan Ruck
 Sampled by: Ryan Ostrom

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers |
|--------|-----------------------|--------------|--------------|--------|----------------------|
| 1 | MW-8-122718 | 12/27/18 | 1321 | W | 2 |
| 2 | MW-9-122718 | ↓ | 1406 | ↓ | 2 |
| 3 | MW-10-122718 | ↓ | 1444 | ↓ | 2 |

| | |
|---|--------------|
| NWTPH-HCID | |
| NWTPH-Gx/BTEX | |
| NWTPH-Gx | |
| NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up) | X |
| Volatiles 8260C | X |
| Halogenated Volatiles 8260C | |
| EDB EPA 8011 (Waters Only) | |
| Semivolatiles 8270D/SIM (with low-level PAHs) | |
| PAHs 8270D/SIM (low-level) | |
| PCBs 8082A | |
| Organochlorine Pesticides 8081B | |
| Organophosphorus Pesticides 8270D/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 |
|-----------|----------|----------|------|-------------------------------|
| | Facallon | 12/28/18 | 0930 | |
| | Facallon | 12/28/18 | 1420 | |
| | | | | |
| | | | | |
| | | | | |

Relinquished _____ Received _____ Relinquished _____ Received _____ Relinquished _____ Received _____

Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)