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May 29, 2019

Brian Sato
Toxics Cleanup Program
Dept. of Ecology
3190 160th AVE SE
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**RE: Final 2018 Site-Wide Groundwater Monitoring Report Transmittal
Consent Decree No. 07-2-33672-9 SEA:
Site Name: BNSF Former Maintenance and Fueling Facility
Site Address: Skykomish, WA
Facility/Site ID No.: 2104
Cleanup Site ID No.: 34**

Dear Mr. Sato:

Enclosed is the Final 2018 Site-Wide Groundwater Monitoring Report for Ecology's records.

Sincerely,

A handwritten signature in blue ink, appearing to read "Shane C. DeGross".

Shane C. DeGross
Manager Environmental Remediation, BNSF Railway

cc: Ms. Amy Essig Desai, Farallon Consulting

**2018 SITE-WIDE
GROUNDWATER MONITORING REPORT**

**BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON
CONSENT DECREE NO. 07-2-33672-9 SEA**

**Submitted by:
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**For:
BNSF Railway Company
605 Puyallup Avenue
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May 29, 2019

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	iii
1.0 INTRODUCTION.....	1-1
1.1 GROUNDWATER MONITORING OBJECTIVES	1-1
1.2 CLEANUP LEVELS AND REMEDIATION LEVELS	1-1
1.3 :SITE DESCRIPTION	1-2
1.4 REPORT ORGANIZATION.....	1-2
2.0 GROUNDWATER MONITORING WELL NETWORK.....	2-1
3.0 SAMPLING, ANALYSIS, AND REPORTING.....	3-1
3.1 SAMPLING METHODS.....	3-1
3.2 LABORATORY ANALYSIS AND REPORTING PROCEDURES	3-1
3.3 DATA MANAGEMENT AND VALIDATION PROTOCOLS.....	3-1
4.0 RESULTS AND DISCUSSION	4-1
4.1 GROUNDWATER LEVELS AND GRADIENT DIRECTIONS	4-1
4.2 FIELD PARAMETERS.....	4-2
4.3 GROUNDWATER ANALYTICAL RESULTS	4-2
4.3.1 Levee Zone Monitoring Wells	4-2
4.3.2 Schoolyard Monitoring Wells.....	4-3
4.3.3 Hydraulic Control and Containment System Sentry and Monitoring Wells.....	4-3
4.3.4 Former Air Sparge Area Monitoring Wells	4-4
4.3.5 Former Maloney Creek Zone Monitoring Wells	4-4
4.3.6 Site-Wide Monitoring Wells.....	4-5
5.0 CONCLUSIONS	5-1
6.0 BIBLIOGRAPHY.....	6-1



FIGURES

- Figure 1 *Site Plan Showing 2018 Groundwater Monitoring Network*
- Figure 2 *Hydraulic Control and Containment System Barrier Wall Gate Detail*
- Figure 3 *March 2018 Groundwater Elevation Contour Map*
- Figure 4 *June 2018 Groundwater Elevation Contour Map*
- Figure 5 *September 2018 Groundwater Elevation Contour Map*
- Figure 6 *December 2018 Groundwater Elevation Contour Map*
- Figure 7 *March 2018 Total Petroleum Hydrocarbons in Groundwater*
- Figure 8 *June 2018 Total Petroleum Hydrocarbons in Groundwater*
- Figure 9 *September 2018 Total Petroleum Hydrocarbons in Groundwater*
- Figure 10 *December 2018 Total Petroleum Hydrocarbons in Groundwater*

TABLES

- Table 1 *2018 Groundwater Monitoring Event Dates*
- Table 2 *2018 Groundwater Sampling Locations*
- Table 3 *2018 Liquid-Level Gauging Frequency*
- Table 4 *2018 Water-Level Elevations and LNAPL Thicknesses*
- Table 5 *2018 Stabilized Groundwater Field Parameter Values*
- Table 6 *2018 Total Petroleum Hydrocarbon Concentrations in Groundwater*

APPENDICES

- Appendix A *Laboratory Analytical Reports (provided on compact disc in printed report)*
- Appendix B *Data Validation Reports*
- Appendix C *NWTPH-Dx Trend Plots*



EXECUTIVE SUMMARY

Quarterly groundwater monitoring was conducted in 2018 at the BNSF Railway Company (BNSF) Former Maintenance and Fueling Facility in Skykomish, Washington. Groundwater samples collected during the monitoring events were analyzed for total petroleum hydrocarbons as diesel- and as oil-range organics (herein referred to collectively as NWTPH-Dx) using Washington State Department of Ecology (Ecology) Method NWTPH-Dx.

Groundwater flow direction in 2018 generally was consistent with previous years. South (i.e., up-gradient) of the hydraulic control and containment (HCC) system barrier wall, the groundwater flow direction is predominantly toward the west-northwest. North (i.e., down-gradient) of the HCC system barrier wall, groundwater flow direction is predominantly toward the west. Light nonaqueous-phase liquid (LNAPL) was observed in monitoring wells and piezometers up-gradient of and adjacent to the HCC system barrier wall, between the West Gate and Center Gate; measured LNAPL thicknesses ranged from a light trace (i.e., less than 0.01 foot) to 1.9 feet. In 2018, measured LNAPL thicknesses increased slightly in piezometer PZ-5S, were generally stable in piezometer PZ-6S, and decreased in recovery wells RW-04 and RW-08 compared to 2017. Over the lifecycle of the data record, measured LNAPL thicknesses in these piezometers and wells have exhibited an overall decreasing or stable trend, with minor variability. LNAPL measurements at the site are subject to uncertainty due to the viscous nature of the LNAPL. Piezometers and recovery wells will continue to be monitored for LNAPL.

The site-specific NWTPH-Dx groundwater cleanup level of 208 micrograms per liter ($\mu\text{g/l}$) (CUL) is applicable at the groundwater conditional point of compliance, defined as the point where groundwater enters the Skykomish River. Compliance with the CUL is assessed using monitoring wells in the Levee Zone adjacent to the Skykomish River. Reported NWTPH-Dx concentrations in the groundwater samples collected from Levee Zone monitoring wells were less than the CUL.

The site-specific NWTPH-Dx groundwater remediation level of 477 $\mu\text{g/l}$ (RL) is applicable from the BNSF railyard boundary to the groundwater conditional point of compliance. Reported NWTPH-Dx concentrations in the groundwater samples collected from monitoring wells north of the BNSF railyard and outside the Levee Zone were less than the RL, with the exception of select samples collected from HCC system monitoring wells 2A-W-41 and GW-3.

NWTPH-Dx concentrations generally have increased in well 2A-W-41 since September 2013 and in well GW-3 since June 2014, although there is variability in the data. Well GW-3 is immediately north and down-gradient of the Center Gate, where substantial biofouling by iron bacteria has been observed. Well 2A-W-41 is west and down-gradient of well GW-3 and the Center Gate. Quarterly groundwater samples collected from these wells in 2018 were analyzed by Ecology Method NWTPH-Dx both with and without a silica gel cleanup preparation process. The June 2018 sample collected from well GW-3 and analyzed without silica gel cleanup had a reported concentration of 600 $\mu\text{g/l}$. The September 2018 sample collected from well 2A-W-41 and analyzed without silica gel cleanup had a reported concentration of 670 $\mu\text{g/l}$. Reported NWTPH-Dx concentrations in all of the silica gel-prepared samples collected from wells GW-3 and 2A-W-41 were less than the RL.



The results of the analyses performed with and without silica gel cleanup suggest that the results from the non-silica-gel-prepared samples are biased high due to biogenic or petroleum metabolite interferences.

During the summer of 2018, the hot water flushing (HWF) remediation system that operated at the Skykomish School in 2016 and 2017 was decommissioned, and the associated sheet pile barrier wall was removed. Former HWF system recovery well RW-10 and schoolyard monitoring wells 5-W-51, 5-W-55, and 5-W-56 were retained to evaluate post-HWF treatment groundwater quality (former recovery well RW-10 was retained for gauging only, to monitor for the presence of LNAPL). Reported NWTPH-Dx concentrations in groundwater samples collected from wells 5-W-51 and 5-W-56 following HWF system decommissioning ranged from 1,260 to 2,600 µg/l. Neither LNAPL nor sheen was observed in any of the schoolyard monitoring wells or in former recovery well RW-10. According to the Consent Decree between BNSF and Ecology, if NWTPH-Dx concentrations exceeding the RL are reported in groundwater samples collected from the schoolyard monitoring wells or down-gradient of the Skykomish School property following HWF treatment, no additional measures are required to meet the RL on or immediately down-gradient of the Skykomish School property. Contingency treatment methods, which could potentially include air-sparging, enhanced bioremediation, or similar in-place treatment measures, will be employed if NWTPH-Dx concentrations exceeding the CUL are reported in groundwater samples at the conditional point of compliance during future groundwater monitoring events. Former recovery well RW-10 will be gauged quarterly and the schoolyard monitoring wells will be sampled quarterly in 2019.

In general, with the exceptions noted above, groundwater monitoring data indicate that LNAPL thicknesses and NWTPH-Dx concentrations in groundwater remained stable or decreased in 2018. Reported NWTPH-Dx concentrations in the groundwater samples collected from the Levee Zone monitoring wells did not exceed the CUL.

Quarterly groundwater monitoring will continue in 2019 in accordance with the Consent Decree. In addition, monthly groundwater monitoring is being conducted near the western end of the HCC barrier wall in conjunction with the HCC system passive operation pilot study (Farallon 2018c). Additionally, the Consent Decree requires that a Long-Term Confirmational Monitoring Plan be submitted following termination of the HWF remediation system operation at the Skykomish School. The Long-Term Confirmational Monitoring Plan will be submitted to Ecology after the pilot study has concluded. Groundwater samples collected from monitoring wells GW-3 and 2A-W-41 will continue to be analyzed both with and without the silica gel cleanup preparation process to gain additional perspective on likely biogenic or petroleum metabolite interferences affecting the analytical results from these wells.



1.0 INTRODUCTION

This 2018 Site-Wide Groundwater Monitoring Report was prepared on behalf of BNSF Railway Company (BNSF) and describes the groundwater monitoring activities conducted in 2018 at the BNSF Former Maintenance and Fueling Facility in Skykomish, Washington (herein referred to as the Site) (Figure 1). Groundwater monitoring is being conducted as part of the Site cleanup action in accordance with the Cleanup Action Plan (Ecology 2007a) (2007 CAP) and Consent Decree No. 07-2-33672-9 SEA between BNSF and the Washington State Department of Ecology (Ecology) (2007b) (Consent Decree). Groundwater monitoring is conducted quarterly in accordance with the 2010 Groundwater Monitoring Plan, Appendix E of the 2010 Compliance Monitoring Plan Update (AECOM 2010b) (2010 GWMP). Most of the wells included in the groundwater monitoring program are sampled every quarter; some wells are sampled semiannually in March and September.

1.1 GROUNDWATER MONITORING OBJECTIVES

The objectives of the Site groundwater monitoring program are to:

- Monitor any changes in contaminant distribution pending completion of the cleanup action;
- Provide monitoring data to assess the effects of completed and ongoing remedial actions on groundwater quality; and
- Provide liquid-level gauging data to assess hydraulic gradients and the extent of light nonaqueous-phase liquid (LNAPL).

1.2 CLEANUP LEVELS AND REMEDIATION LEVELS

The Site-specific groundwater cleanup level established in the 2007 CAP for total petroleum hydrocarbon concentrations, defined as the sum of total petroleum hydrocarbons as diesel-range organics (DRO) and oil-range organics (ORO) analyzed using Ecology Method NWTPH-Dx, is 208 micrograms per liter ($\mu\text{g/l}$) (CUL). The CUL is applicable at the groundwater conditional point of compliance (CPOC), defined as the surface water boundary where groundwater enters the Skykomish River and Former Maloney Creek. The CUL is intended to protect sediments in the Skykomish River and Former Maloney Creek from recontamination by groundwater. The 2007 CAP anticipates that the CUL will be attained at the groundwater CPOC following implementation of the cleanup action. Compliance with the CUL currently is assessed using monitoring wells in the Levee Zone adjacent to the Skykomish River (Figure 1). Based on historical groundwater elevation and hydraulic gradient data, groundwater does not flow toward or discharge to Former Maloney Creek.

The Site-specific groundwater remediation level for total petroleum hydrocarbon concentrations is 477 $\mu\text{g/l}$ (RL). The RL is applicable from the BNSF railyard boundary to the groundwater CPOC, and is used to assess groundwater quality in areas of the Site north of the railyard and outside the Levee Zone. The groundwater RL is intended to be protective of drinking water resources.



According to the 2007 CAP, no additional measures are required to meet the RL on or immediately down-gradient of the Skykomish School property following HWF treatment:

. . . in the event dissolved petroleum concentrations in groundwater still exceed 477 µg/L NWTPH-Dx downgradient from the school after the thermal remediation and associated interception and recovery trench installation has been performed, no additional measures on or at the school property would be required to meet the 477 µg/L NWTPH-Dx dissolved petroleum remediation level on property or downgradient. Instead, as a contingency, treatment methods would be employed at the levee if necessary to ensure that the cleanup level of 208 µg/L NWTPH-Dx and absence of sheen or free product would still be met at and downgradient of compliance wells in the levee. BNSF may elect to perform measures between the school and the levee if BNSF believes they would be more effective (Ecology 2007a).

1.3 SITE DESCRIPTION

The Site includes BNSF property and public and private properties in the Town of Skykomish in King County, Washington (Figure 1), and encompasses an area of approximately 40 acres. The Site is bounded by the South Fork Skykomish River to the north, the Town of Skykomish city limits to the east, Old Cascade Highway to the south, and Maloney Creek to the west. Railroad Avenue separates the BNSF railyard boundary from the main commercial district of the Town of Skykomish (Figure 1). Additional Site history and background information is presented in the Consent Decree, 2007 CAP, and Supplemental Remedial Investigation Volume 1 (The RETEC Group, Inc. 2002b).

1.4 REPORT ORGANIZATION

The remainder of this report is organized into the following sections:

- **Section 2, Groundwater Monitoring Well Network**, describes the current monitoring well network.
- **Section 3, Sampling, Analysis, and Reporting**, describes the groundwater sampling methods, laboratory analysis and reporting procedures, and data management and validation protocols used.
- **Section 4, Results and Discussion**, describes the results from the groundwater monitoring, including groundwater levels and flow directions, field parameters, and groundwater analytical results.
- **Section 5, Conclusions**, provides conclusions based on the groundwater monitoring results.
- **Section 6, Bibliography**, provides a list of the documents used in preparing this report.



2.0 GROUNDWATER MONITORING WELL NETWORK

The network of wells and piezometers used for groundwater monitoring was established in the 2010 GWMP and is shown on Figures 1 and 2. The dates of the groundwater monitoring events conducted in 2018 are presented in Table 1. Tables 2 and 3 provide additional details regarding the sampling and liquid-level gauging frequencies for the locations included in the groundwater monitoring program.

During the summer of 2018, the hot water flushing (HWF) remediation system that operated at the Skykomish School property in 2016 and 2017 was decommissioned, and the associated sheet pile barrier wall was removed. All exterior groundwater extraction and LNAPL recovery wells, treated groundwater injection wells, air inlet wells, and groundwater monitoring wells installed as part of the HWF system were decommissioned, with the exception of recovery well RW-10. In addition, monitoring wells 5-W-15 (formerly located in North Sixth Street near the northeastern corner of the sheet pile barrier wall) and 5-W-54 (formerly located near the southwestern corner of the Skykomish School) were decommissioned due to their proximity to the sheet pile barrier wall that was removed. Recovery well RW-10 and monitoring wells 5-W-51, 5-W-55, and 5-W-56 were retained to evaluate post-HWF treatment groundwater quality. Recovery well RW-10 was retained for post-treatment gauging only.



3.0 SAMPLING, ANALYSIS, AND REPORTING

This section summarizes the groundwater monitoring sampling methods, laboratory analysis and reporting procedures, and data management and validation protocols used. Groundwater samples collected in 2018 were analyzed by TestAmerica Laboratories, Inc. of Tacoma, Washington. The groundwater analytical results were independently validated by Sayler Data Solutions, Inc. of Kirkland, Washington.

3.1 SAMPLING METHODS

Liquid-level gauging and groundwater sampling were conducted in accordance with the 2010 GWMP. Groundwater samples were collected using low-flow sampling techniques and peristaltic pumps. The samples were collected in laboratory-supplied containers after groundwater field parameters stabilized during well purging, with the exception of the hydraulic control and containment (HCC) system sentry wells. HCC system sentry wells were sampled after 15 minutes of well purging. The filled sample containers were placed on ice in a cooler and delivered to the analytical laboratory under standard chain-of-custody protocols.

3.2 LABORATORY ANALYSIS AND REPORTING PROCEDURES

Groundwater samples were analyzed for DRO and ORO (herein referred to collectively as NWTPH-Dx) by Ecology Method NWTPH-Dx without silica gel cleanup. Groundwater samples collected from monitoring wells GW-3 and 2A-W-41 also were analyzed by Ecology Method NWTPH-Dx with a silica gel cleanup preparation process (see Section 4.3.3, Hydraulic Control and Containment System Sentry and Monitoring Wells) to assess whether potential biogenic substances and/or petroleum metabolites may be affecting the analytical results from these wells.

In previous years, the laboratory reported sample results relative to the analytical method detection limit (MDL) (which typically was less than the method reporting limit [MRL]) to minimize the occurrence of non-detect results with MRLs that exceeded the CUL. In December 2016, the U.S. Environmental Protection Agency published a federally mandated revision to the MDL calculation method in Part 136 of Title 40 of the Code of Federal Regulations that became effective in September 2017, with a 1-year grace period for implementation. In January 2018, the laboratory implemented the revision, which increased the MDLs for Ecology Method NWTPH-Dx such that the new MDLs were greater than the previously established MRLs. As a result, the laboratory increased the MRLs to match the new MDLs. The laboratory continues to report sample results relative to the MDL, which for most samples is now equivalent to the MRL.

3.3 DATA MANAGEMENT AND VALIDATION PROTOCOLS

The laboratory electronic data deliverables were directly imported into the project environmental data management system. A quality control check was performed on the imported data to ensure that they were accurately uploaded. Laboratory analytical reports are provided in Appendix A. The groundwater analytical data were independently validated by Sayler Data Solutions, Inc. and checked for completeness by Farallon Consulting, L.L.C (Farallon).



Sayler Data Solutions, Inc. evaluated the groundwater analytical data to assess whether the data met the quality control/validation standards described in the 2010 GWMP. The data validation procedures were based on U.S. Environmental Protection Agency (2008) Guidelines for Organic Methods Data Review; data evaluation metrics included precision, accuracy, method compliance, and completeness of the data set. Data validation reports are provided in Appendix B. The data validation results indicate that the groundwater analytical data are suitable for the intended use of assessing Site groundwater quality.



4.0 RESULTS AND DISCUSSION

The results from the 2018 Site-wide groundwater monitoring and sampling are summarized in this section. Groundwater sampling frequency, groundwater elevation and LNAPL thickness, and groundwater-quality parameters measured during the groundwater monitoring events are summarized in Tables 3, 4, and 5, respectively. Table 6 provides groundwater analytical results for the DRO and ORO fractions and calculated total NWTPH-Dx concentrations. Groundwater elevation contour maps for the groundwater monitoring events are presented on Figures 3 through 6. Figures 7 through 10 show the NWTPH-Dx results for each groundwater monitoring event and the estimated areal extent of LNAPL. NWTPH-Dx trend plots are provided in Appendix C.

4.1 GROUNDWATER LEVELS AND GRADIENT DIRECTIONS

As noted on Figures 3 through 6, the calculated groundwater elevations at the HCC system barrier wall gate vaults and select wells and piezometers were not used for contouring groundwater elevations. Groundwater elevations at the gate vaults were not used for contouring because the gate vaults were not designed to provide representative water-level measurements. Groundwater elevations at some wells and piezometers were inconsistent with groundwater elevation data from nearby locations (likely due to local geological heterogeneities) and therefore were not considered representative. In other cases, it was not possible to graphically depict local details of groundwater elevation contours because the spatial scale of the groundwater elevation contour maps is too small. Groundwater elevations at schoolyard monitoring wells inside the Skykomish School sheet pile barrier wall prior to HWF system decommissioning in the summer of 2018 were not used for contouring because groundwater levels in these wells were affected by the presence of the sheet pile barrier wall, and therefore were not considered representative of conditions outside the barrier wall.

Seasonal groundwater-level fluctuations of 2.03 to 7.31 feet occurred in wells and piezometers on the southern (i.e., up-gradient) side of the HCC system barrier wall. Seasonal groundwater-level fluctuations in wells and piezometers on the northern (i.e., down-gradient) side of the HCC system barrier wall were smaller, ranging from 0.06 to 2.45 feet. The HCC system barrier wall restricts groundwater flow, causing groundwater mounding on the southern side of the barrier wall, and accentuating a westerly component to groundwater flow near the wall. Groundwater elevation differentials across the central portion of the HCC system barrier wall ranged from 0.4 foot in September 2018 to 7.8 feet in March 2018, as measured in piezometer pairs adjacent to the barrier wall (i.e., one piezometer on either side of the wall). Groundwater pumping at the HCC system groundwater extraction and LNAPL recovery wells influenced groundwater elevations locally near the recovery wells.

Estimated hydraulic gradients in 2018 generally were consistent with previous years. South of the HCC system barrier wall, the gradient direction was predominantly toward the west-northwest. North of the HCC system barrier wall, the gradient direction was predominantly toward the west, subparallel to the Skykomish River flow direction. Estimated gradient magnitudes on the southern side of the HCC system barrier wall were on the order of 0.01 to 0.02 foot per foot. Estimated



gradient magnitudes on the northern side of the HCC system barrier wall were on the order of 0.01 foot per foot.

4.2 FIELD PARAMETERS

Field parameters measured during well purging included temperature, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), and specific conductivity. Table 5 presents the stabilized field parameter values recorded at the wells sampled in 2018.

Groundwater temperatures varied seasonally, ranging from 3.2 degrees Celsius (°C) in well 2A-W-10 in March 2018 to 18.0 °C in well 5-W-56 in September 2018. Groundwater pH values were generally consistent with previous years, ranging from 5.49 to 7.19. Measured DO concentrations also were generally consistent with previous years, ranging from 0.21 milligram per liter (mg/l) in well 5-W-51 in March 2018 to 12.43 mg/l in well 2A-W-40 in December 2018. In general, monitoring wells with no reported detections of petroleum hydrocarbons exhibited higher DO values (average of 4.70 mg/l) than wells with reported detections (average of 3.21 mg/l), indicating that the petroleum hydrocarbons in Site groundwater are biodegrading.

ORP values were generally consistent with previous years, ranging from -115 millivolts in well MW-4 in September 2018 to 392 millivolts in well 1B-W-23 in December 2018. Of the 123 ORP values measured in 2018, 114 were positive. The predominantly positive ORP values and DO concentrations exceeding 1 mg/l indicate that conditions are favorable for aerobic biodegradation of petroleum hydrocarbons.

4.3 GROUNDWATER ANALYTICAL RESULTS

Petroleum hydrocarbon concentrations in groundwater samples were analyzed using Ecology Method NWTPH-Dx. The NWTPH-Dx analytical results are reported as DRO and ORO fractions, which are summed to give the total NWTPH-Dx concentration. If both DRO and ORO fractions were detected, the total NWTPH-Dx concentration was calculated as the sum of the reported DRO and ORO concentrations. If either the DRO or ORO fraction was not detected, half the MDL was used for the non-detected fraction in the NWTPH-Dx calculation.

The groundwater analytical results are summarized below. Table 6 shows groundwater analytical results for the DRO and ORO fractions and calculated total NWTPH-Dx concentrations. Figures 7 through 10 show the NWTPH-Dx results for each groundwater monitoring event and the estimated areal extent of LNAPL. NWTPH-Dx trend plots are provided in Appendix C.

4.3.1 Levee Zone Monitoring Wells

Monitoring wells 5-W-14 and 5-W-16 through 5-W-19 were sampled quarterly. Monitoring well 5-W-15 was sampled during the March and June monitoring events, prior to being decommissioned in conjunction with HWF system decommissioning and removal of the sheet pile barrier wall. Reported NWTPH-Dx concentrations in the groundwater samples collected from the Levee Zone monitoring wells were less than the CUL. LNAPL or sheen was not observed in any of the Levee Zone monitoring wells.



4.3.2 Schoolyard Monitoring Wells

Monitoring wells 5-W-51 and 5-W-54 through 5-W-56 were sampled during the March monitoring event prior to HWF system decommissioning. Monitoring well 5-W-54 was decommissioned in conjunction with HWF system decommissioning and removal of the sheet pile barrier wall. The remaining three schoolyard monitoring wells, 5-W-51, 5-W-55, and 5-W-56, were sampled quarterly (in September and December), and recovery well RW-10 was gauged for the presence of LNAPL quarterly (in September and December).

Reported NWTPH-Dx concentrations in the groundwater samples collected from wells 5-W-51 and 5-W-56 ranged from 1,260 to 3,200 µg/l. Reported NWTPH-Dx concentrations in the groundwater samples collected from wells 5-W-54 and 5-W-55 ranged from less than the MDL (i.e., not detected) to 182 µg/l (Table 6; Figures 7, 9, and 10). LNAPL or sheen was not observed in any of the schoolyard monitoring wells or recovery well RW-10.

4.3.3 Hydraulic Control and Containment System Sentry and Monitoring Wells

The sentry wells are sampled semiannually and after an HCC system shut-down lasting longer than 48 hours. The HCC system monitoring wells are gauged and sampled quarterly. The piezometers, recovery wells, and barrier wall gate oil-water separator chambers are gauged quarterly for the presence or absence of LNAPL or sheen and are not sampled.

The 20 sentry wells in the HCC system barrier wall treatment gates were sampled during the March, September, and December monitoring events. The December sampling of the sentry wells was performed in response to an HCC system shut-down in December that lasted more than 48 hours. The HCC system shut-down was caused by an influent equalization tank low-water level alarm condition on December 4, 2018 (Farallon 2019). The 2010 GWMP requires that the sentry wells be sampled after an HCC system shut-down lasting more than 48 hours.

Reported NWTPH-Dx concentrations in the groundwater samples collected from sentry wells ranged from less than the MDL (i.e., not detected) to 241 µg/l, with two exceptions:

- NWTPH-Dx was reported at a concentration of 682 µg/l in the March 2018 groundwater sample collected from up-gradient sentry well S2-BU in the east vault of the West Gate (Table 6; Figure 7). NWTPH-Dx was not reported at concentrations exceeding the MDL in the March 2018 groundwater sample collected from down-gradient sentry well S2-BD in the east vault of the West Gate.
- NWTPH-Dx was reported at a concentration of 560 µg/l in the September 2018 groundwater sample collected from down-gradient sentry well S2-BD in the east vault of the West Gate (Table 6; Figure 9). NWTPH-Dx was not reported at concentrations exceeding the MDL in the September 2018 groundwater sample collected from up-gradient sentry well S2-BU in the east vault of the West Gate. Because NWTPH-Dx concentrations in down-gradient sentry wells normally are not expected to be greater than NWTPH-Dx concentrations in up-gradient sentry wells, sentry wells S2-BU and S2-BD were resampled in October 2018. NWTPH-Dx was not reported at concentrations exceeding the MDL in the October 2018 groundwater samples collected from sentry wells S2-BU and S2-BD.



A light trace of LNAPL was observed in the east vault oil-water separator chamber of the West Gate in June, September, and December 2018 (location WG-EV-South Chamber) (Table 4), and may be a source of elevated NWTPH-Dx concentrations in the east vault of the West Gate. However, the reported NWTPH-Dx concentrations in all but five groundwater samples collected from sentry wells S2-BU and S2-BD in the east vault of the West Gate from 2009 through 2018 were less than 200 µg/l; most results were less than 100 µg/l (Appendix C).

Monitoring wells EW-1, EW-2A, 5-W-43, 2A-W-40, 2A-W-41, 1B-W-23, 2A-W-42, and GW-1 through GW-4 were sampled quarterly. Reported NWTPH-Dx concentrations in the groundwater samples collected from these wells were less than the RL, with the exception of the September 2018 sample collected from well 2A-W-41, which had a reported concentration of 670 µg/l, and the June 2018 sample collected from well GW-3, which had a reported concentration of 600 µg/l (Table 6; Figures 8 and 9). LNAPL or sheen was not observed in any of these monitoring wells.

Between June 2014 and December 2018, reported NWTPH-Dx detections in gate well GW-3 fluctuated between 63 to 600 µg/l, with four values exceeding the RL. Historically (between April 2009 and June 2014), reported NWTPH-Dx detections in well GW-3 fluctuated over a smaller range of 34 to 184 µg/l (Appendix C). Similarly, between September 2013 and December 2018, reported NWTPH-Dx detections in monitoring well 2A-W-41 fluctuated over a range of 56 to 1,100 µg/l, with three values exceeding the RL, whereas historically (between December 2009 and September 2013), reported NWTPH-Dx detections in well 2A-W-41 fluctuated over a smaller range of 26 to 175 µg/l.

Well GW-3 is immediately north and down-gradient of the Center Gate, where substantial biofouling by iron bacteria has been observed. Well 2A-W-41 is west and down-gradient of well GW-3 and the Center Gate. To evaluate whether the increased NWTPH-Dx concentrations reported in wells GW-3 and 2A-W-41 since June 2014 and September 2013, respectively, may be the result of interference from biogenic substances or petroleum metabolites, groundwater samples collected from each of these wells in 2018 were analyzed by Ecology Method NWTPH-Dx both with and without a silica gel cleanup preparation process. Reported NWTPH-Dx concentrations in all of the silica gel-prepared samples were less than the RL, and significantly less than the reported NWTPH-Dx concentrations in seven of the eight associated non-silica-gel-prepared samples. The results of the analyses performed with and without a silica gel cleanup preparation process suggest that the NWTPH-Dx results from the non-silica-gel-prepared samples are biased high due to biogenic or petroleum metabolite interferences.

4.3.4 Former Air Sparge Area Monitoring Wells

Monitoring wells 1B-W-3, 1C-W-7, and 1C-W-8 were sampled quarterly. Reported NWTPH-Dx concentrations in groundwater samples collected from these wells were less than the RL. LNAPL or sheen was not observed in the former air sparge area monitoring wells.

4.3.5 Former Maloney Creek Zone Monitoring Wells

Monitoring wells MW-3, MW-4, 2A-W-9, 2A-W-10, and 2B-W-4 were sampled quarterly. Reported NWTPH-Dx concentrations in groundwater samples collected from these wells ranged



from 117 to 720 $\mu\text{g/l}$, with the exception of the June and December 2018 samples collected from well MW-3, which had reported concentrations of 1,860 and 3,170 $\mu\text{g/l}$, respectively (Table 6; Figures 8 and 10).

A sulfur-like odor has been noted during purging of monitoring well MW-3, indicating the possible presence of biogenic material (i.e., non-petroleum-based organics) in groundwater. Analytical interference from biogenic material can bias the reported NWTPH-Dx concentrations high. As discussed in the 2017 Site-Wide Groundwater Monitoring Report (Farallon 2018a), a groundwater sample collected from well MW-3 in December 2017 was analyzed by Ecology Method NWTPH-Dx both with and without a silica gel cleanup preparation process. The reported NWTPH-Dx concentration in the silica gel-treated sample (58 $\mu\text{g/l}$) was significantly less than the reported concentration in the non-silica-gel-treated sample (3,400 $\mu\text{g/l}$), suggesting biogenic interference. Monitoring well MW-3 is in a former wetland area; photographs of remedial excavations completed near this well in 2011 show that woody debris was present in the excavation sidewalls (AECOM 2012d). Organic matter in soil near well MW-3 may be a source of interfering biogenic material in groundwater.

A light trace of LNAPL was observed in well 2A-W-9 in September 2018 (Figure 9). Well 2A-W-9 is down-gradient of an unexcavated area in the railyard in which residual LNAPL previously was identified (AECOM 2012e). LNAPL or sheen was not observed in the remaining Former Maloney Creek Zone monitoring wells.

4.3.6 Site-Wide Monitoring Wells

Monitoring wells 1A-W-4, MW-16, MW-38R, 1B-W-2, 1C-W-3, and 1C-W-4 were sampled semiannually in March and September. Monitoring well 1C-W-1 was sampled quarterly. Reported NWTPH-Dx concentrations in the groundwater samples collected from wells north of the railyard were less than the RL. LNAPL or sheen was not observed in any of the Site-wide monitoring wells.



5.0 CONCLUSIONS

In general, with the exceptions noted below, the groundwater monitoring data indicate that LNAPL thicknesses and NWTPH-Dx concentrations in groundwater remained stable or decreased in 2018. Reported NWTPH-Dx concentrations in groundwater samples collected from the Levee Zone monitoring wells near the Skykomish River did not exceed the CUL. Groundwater monitoring in 2019 will include the monitoring wells that had RL exceedances in 2018.

LNAPL was observed in monitoring wells and piezometers up-gradient of and adjacent to the HCC system barrier wall, between the West Gate and Center Gate; measured LNAPL thicknesses ranged from a light trace to 1.9 feet. The locations where LNAPL was observed were generally consistent with prior years. Measured LNAPL thicknesses increased slightly in piezometer PZ-5S, were generally stable in piezometer PZ-6S, and decreased in recovery wells RW-04 and RW-08 compared to 2017. Measured LNAPL thicknesses in these piezometers and wells have exhibited an overall decreasing or stable trend, with minor variability. LNAPL measurements at the Site are subject to uncertainty due to the viscous nature of the LNAPL. Piezometers, recovery wells, and HCC system barrier wall gate vaults will continue to be inspected quarterly for the presence of LNAPL, and LNAPL will be removed as needed.

NWTPH-Dx concentrations in monitoring wells 2A-W-41 and GW-3 generally have increased since June 2013 and June 2014, respectively, although there is variability in the data. Well GW-3 is immediately north and down-gradient of the Center Gate, where substantial biofouling by iron bacteria has been observed. In addition, a sulfur-like odor has been noted during purging of monitoring well MW-3, which is on the up-gradient portion of the Site in a former wetland area with organic material in soil. Reported NWTPH-Dx concentrations in the silica-gel-prepared samples collected from wells 2A-W-41, GW-3, and MW-3 were less than the reported concentration in the non-silica-gel-prepared samples. The odor and biofouling observations noted proximate to wells 2A-W-41, GW-3, and MW-3, and results of the analyses performed with and without silica gel cleanup, suggest that the results from the non-silica-gel-prepared samples are biased high due to biogenic or petroleum metabolite interferences. Groundwater samples collected from these wells will continue to be analyzed both with and without silica gel cleanup to gain additional perspective on likely biogenic or petroleum metabolite interferences affecting the analytical results.

Quarterly groundwater monitoring will continue in 2019 in accordance with the Consent Decree. In addition, monthly groundwater monitoring is being conducted near the western end of the HCC barrier wall in conjunction with the HCC system passive operation pilot study (Farallon 2018c). Additionally, the Consent Decree requires that a Long-Term Confirmational Monitoring Plan be submitted following termination of the HWF remediation system operation at the Skykomish School property. Currently, data from the ongoing pilot study are being evaluated to assist with development of the scope of work necessary to confirm that the final cleanup action is protective of human health and the environment and that engineering controls in place at the Site remain effective at containing and controlling remaining contamination at the BNSF railyard. The Long-Term Confirmational Monitoring Plan will be submitted to Ecology after the pilot study has concluded.



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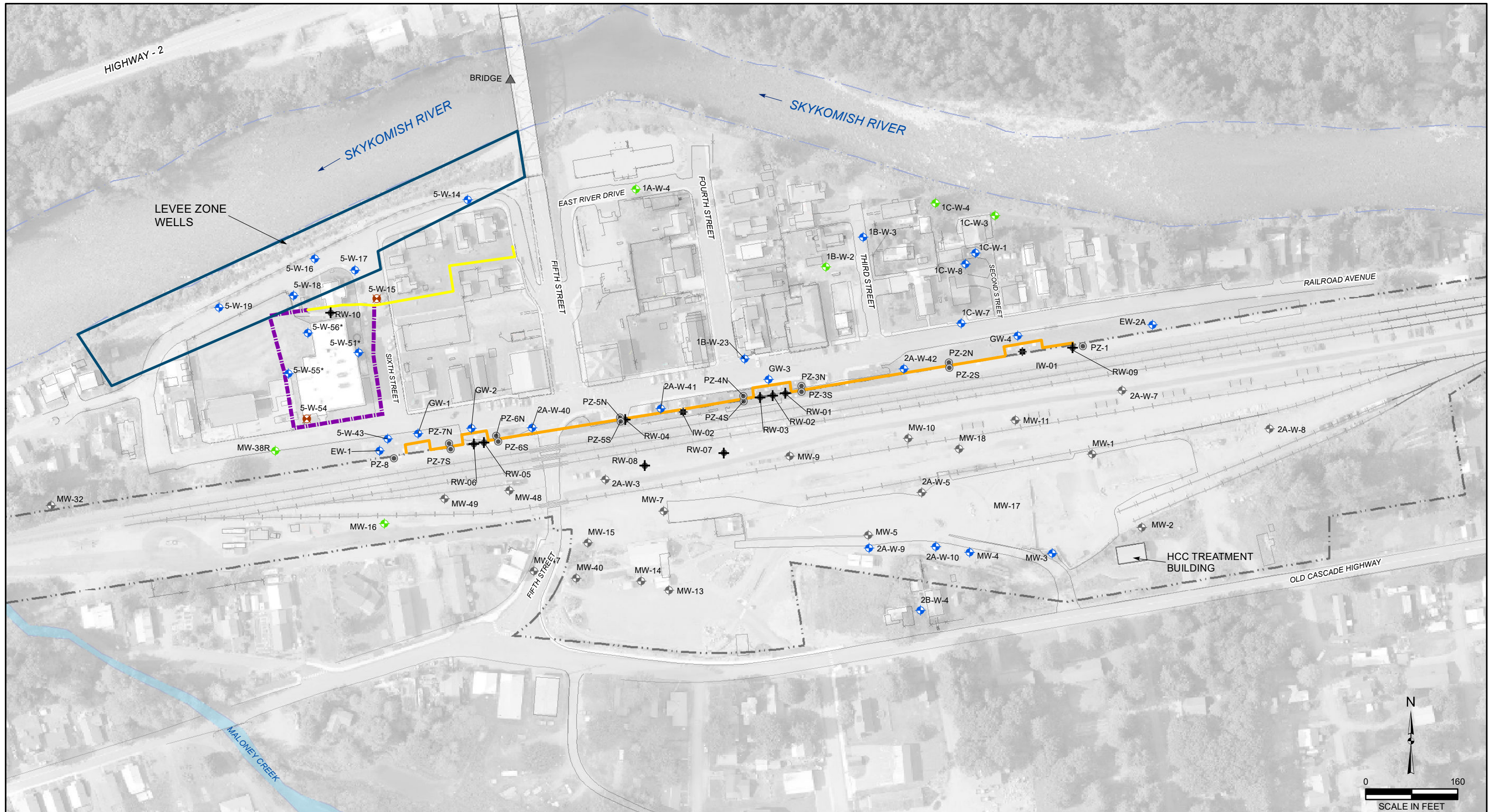
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FIGURES

**2018 SITE-WIDE GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA**

Farallon PN: 683-067



- 2A-W-41 ◆ MONITORING WELL
- RW-4 ◆ RECOVERY WELL
- PZ-5S ● PIEZOMETER
- IW-02 ◆ INJECTION WELL
- BRIDGE ▲ BRIDGE MEASURING POINT
- ▲●◆◆◆ LIQUID LEVEL GAUGING LOCATIONS

LEGEND

- ◆ WELLS SAMPLED QUARTERLY
- ◆ WELLS SAMPLED SEMIANNUALLY
- ◆ WELLS DECOMMISSIONED SUMMER 2018

- HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SHEET PILE BARRIER WALL AND GATES
- - - BNSF RAILYARD BOUNDARY
- MECHANICALLY STABILIZED EARTH WALL
- SKYKOMISH SCHOOL SHEET PILE BARRIER WALL (REMOVED SUMMER 2018)

NOTES
 HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SENTRY WELLS AND BARRIER WALL GATE VAULT LOCATIONS NOT SHOWN. SEE FIGURE 2 FOR BARRIER WALL GATE DETAILS.
 * = WELLS SAMPLED QUARTERLY IN 2018 FOLLOWING REMOVAL OF THE SKYKOMISH SCHOOL HOT WATER FLUSHING (HWF) TREATMENT SYSTEM AND SHEET PILE WALL.



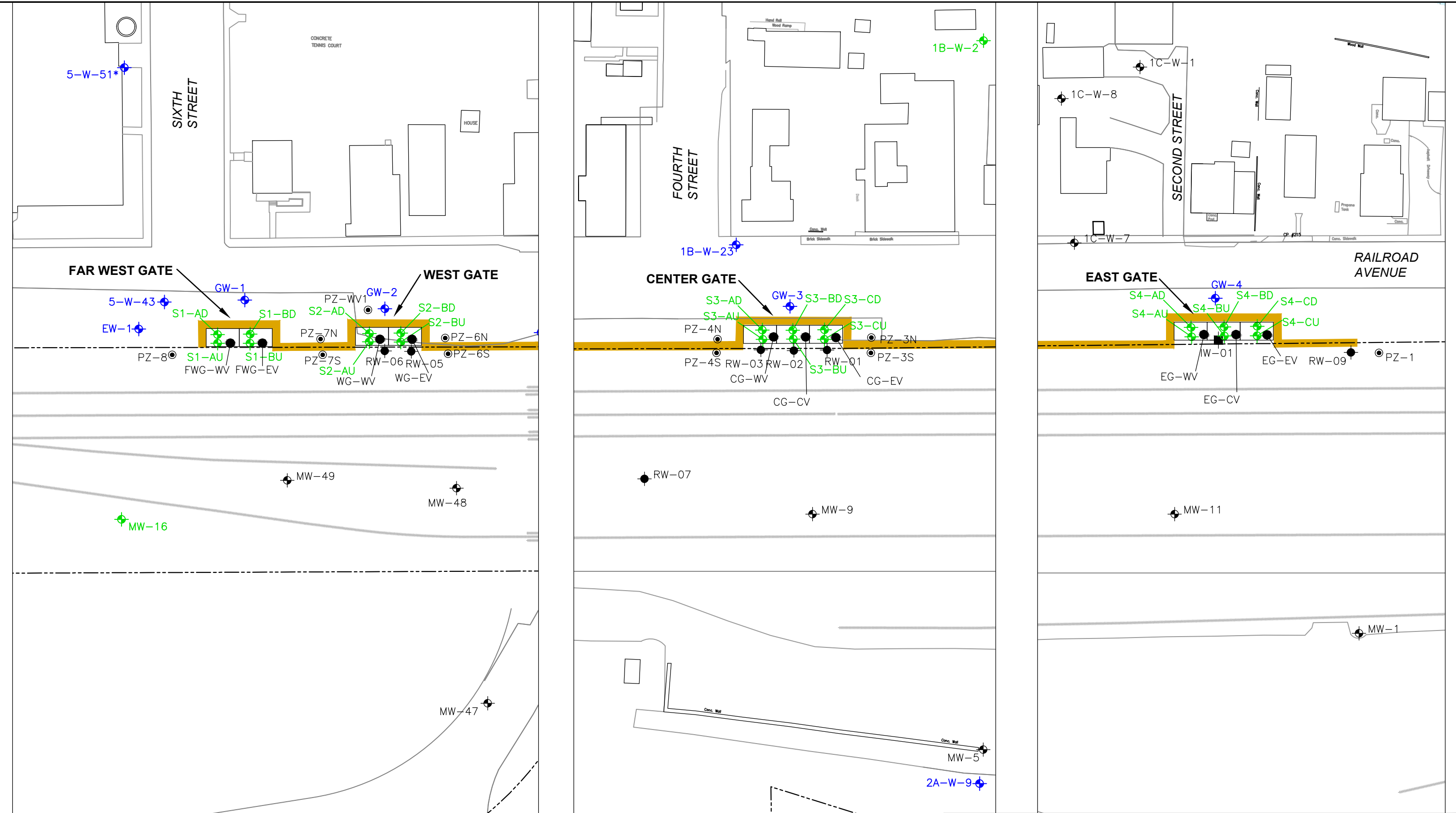
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FIGURE 1
 SITE PLAN SHOWING 2018 GROUNDWATER MONITORING NETWORK BNSF FORMER MAINTENANCE AND FUELING FACILITY SKYKOMISH, WASHINGTON
 FARALLON PN: 683-067



- LEGEND**
- 2A-W-41 MONITORING WELL
 - RW-04 RECOVERY WELL
 - PZ-5S PIEZOMETER
 - IW-02 TREATED-WATER REINJECTION WELL
 - WG-WV BARRIER WALL GATE VAULT
 - GW-2 WELLS SAMPLED QUARTERLY
 - S1-AU WELLS SAMPLED SEMIANNUALLY

- HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL/GATE SYSTEM
- BNSF RAILYARD PROPERTY LINE
- * = WELL SAMPLED QUARTERLY IN 2018 FOLLOWING REMOVAL OF THE SKYKOMISH SCHOOL HOT WATER FLUSHING (HWF) TREATMENT SYSTEM AND SHEET PILE WALL.



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FIGURE 2

HYDRAULIC CONTROL AND CONTAINMENT SYSTEM
 BARRIER WALL GATE DETAIL
 BNSF FORMER MAINTENANCE
 AND FUELING FACILITY
 SKYKOMISH, WASHINGTON

FARALLON PN: 683-067

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LEGEND	
2A-W-41	MONITORING WELL
5-W-54	MONITORING WELL (DECOMMISSIONED SUMMER 2018)
RW-04	RECOVERY WELL
PZ-5S	PIEZOMETER
IW-02	INJECTION WELL
FWG-WV	BARRIER WALL GATE VAULT
BRIDGE	BRIDGE MEASURING POINT
917.10	GROUNDWATER OR SURFACE WATER (SKYKOMISH RIVER) ELEVATION IN FEET NAVD88 (MARCH, 2018)
(920.50)	GROUNDWATER ELEVATION NOT USED FOR CONTOURING
921.00	APPROXIMATE INTERPRETED GROUNDWATER ELEVATION CONTOUR IN FEET NAVD88 (INFERRED WHERE DASHED)
0.011	APPROXIMATE INTERPRETED DIRECTION OF GROUNDWATER FLOW AND GRADIENT (UNITS IN FOOT PER FOOT)

---	BNSF RAILYARD BOUNDARY	---	MECHANICALLY STABILIZED EARTH WALL
---	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SHEET PILE BARRIER WALL AND GATES	---	SKYKOMISH SCHOOL SHEET PILE BARRIER WALL (REMOVED SUMMER 2018)

NOTES:
 HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SENTRY WELLS NOT SHOWN. ONLY BARRIER WALL GATE VAULT LOCATIONS WHERE GROUNDWATER ELEVATIONS WERE MEASURED ARE SHOWN.
 NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
 IMAGERY SOURCE: KING COUNTY PICTOMETRY 2015

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FIGURE 3
 MARCH 2018
 GROUNDWATER ELEVATION CONTOUR MAP
 BNSF FORMER MAINTENANCE
 AND FUELING FACILITY
 SKYKOMISH, WASHINGTON
 FARALLON PN: 683-067

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LEGEND	
2A-W-41	MONITORING WELL
5-W-54	MONITORING WELL (DECOMMISSIONED SUMMER 2018)
RW-04	RECOVERY WELL
PZ-5S	PIEZOMETER
IW-02	INJECTION WELL
FWG-WV	BARRIER WALL GATE VAULT
BRIDGE	BRIDGE MEASURING POINT
917.10	GROUNDWATER OR SURFACE WATER (SKYKOMISH RIVER) ELEVATION IN FEET NAVD88 (JUNE, 2018)
(920.50)	GROUNDWATER ELEVATION NOT USED FOR CONTOURING
921.00	APPROXIMATE INTERPRETED GROUNDWATER ELEVATION CONTOUR IN FEET NAVD88 (INFERRED WHERE DASHED)
0.011	APPROXIMATE INTERPRETED DIRECTION OF GROUNDWATER FLOW AND GRADIENT (UNITS IN FOOT PER FOOT)

---	BNSF RAILYARD BOUNDARY	---	MECHANICALLY STABILIZED EARTH WALL
---	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SHEET PILE BARRIER WALL AND GATES	---	SKYKOMISH SCHOOL SHEET PILE BARRIER WALL (REMOVED SUMMER 2018)

NOTES:
 HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SENTRY WELLS NOT SHOWN. ONLY BARRIER WALL GATE VAULT LOCATIONS WHERE GROUNDWATER ELEVATIONS WERE MEASURED ARE SHOWN.
 NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
 IMAGERY SOURCE: KING COUNTY PICTOMETRY 2015

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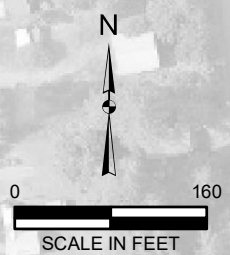
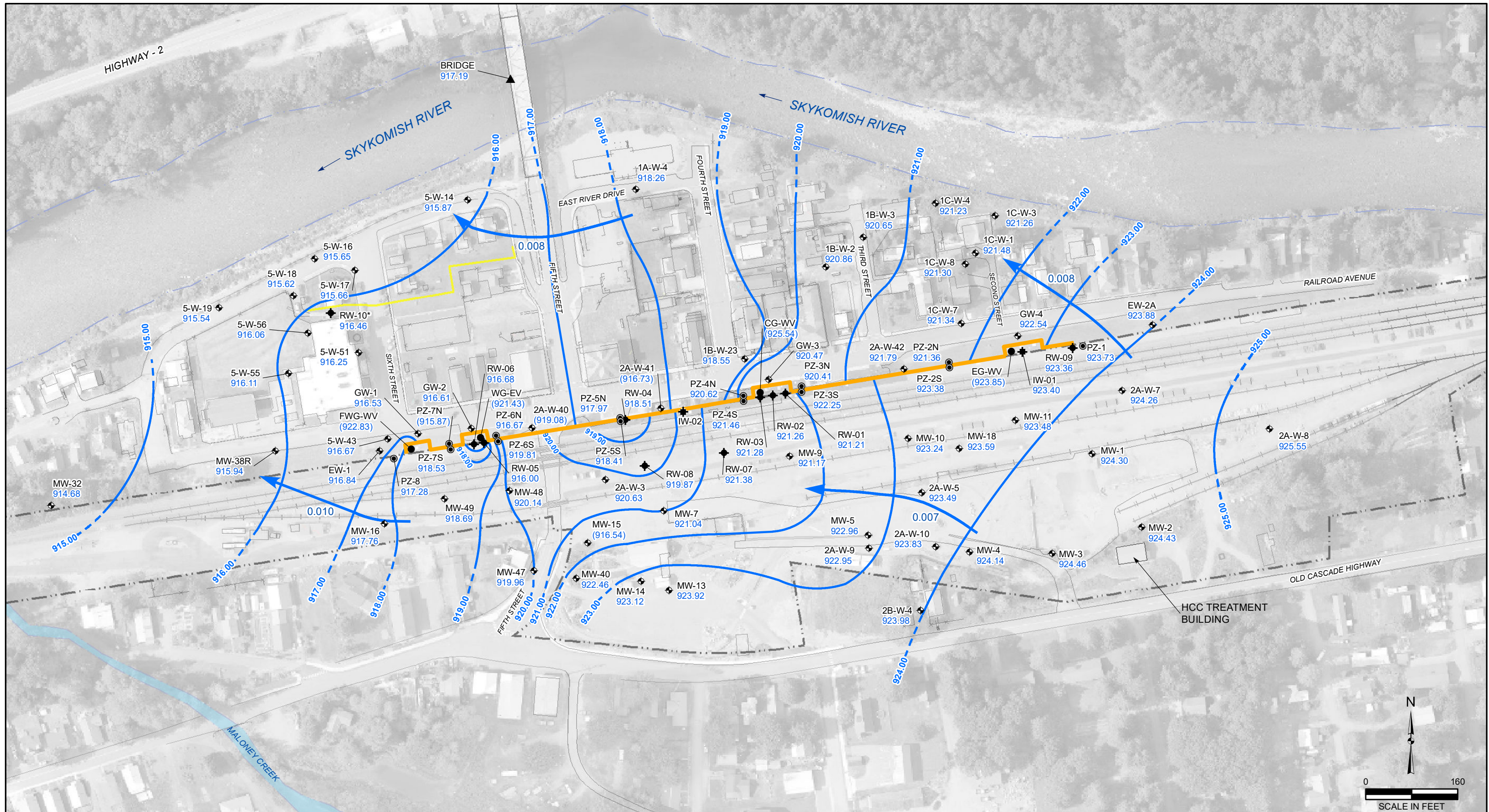
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FIGURE 4
 JUNE 2018
 GROUNDWATER ELEVATION CONTOUR MAP
 BNSF FORMER MAINTENANCE
 AND FUELING FACILITY
 SKYKOMISH, WASHINGTON
 FARALLON PN: 683-067



LEGEND	
2A-W-41	MONITORING WELL
5-W-54	MONITORING WELL (DECOMMISSIONED SUMMER 2018)
RW-04	RECOVERY WELL
PZ-5S	PIEZOMETER
IW-02	INJECTION WELL
FWG-WV	BARRIER WALL GATE VAULT
BRIDGE	BRIDGE MEASURING POINT
917.10	GROUNDWATER OR SURFACE WATER (SKYKOMISH RIVER) ELEVATION IN FEET NAVD88 (SEPTEMBER, 2018)
(920.50)	GROUNDWATER ELEVATION NOT USED FOR CONTOURING
921.00	APPROXIMATE INTERPRETED GROUNDWATER ELEVATION CONTOUR IN FEET NAVD88 (INFERRED WHERE DASHED)
0.011	APPROXIMATE INTERPRETED DIRECTION OF GROUNDWATER FLOW AND GRADIENT (UNITS IN FOOT PER FOOT)

---	BNSF RAILYARD BOUNDARY	---	MECHANICALLY STABILIZED EARTH WALL
---	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SHEET PILE BARRIER WALL AND GATES		

NOTES:
 HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SENTRY WELLS NOT SHOWN. ONLY BARRIER WALL GATE VAULT LOCATIONS WHERE GROUNDWATER ELEVATIONS WERE MEASURED ARE SHOWN.
 NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
 IMAGERY SOURCE: KING COUNTY PICTOMETRY 2015

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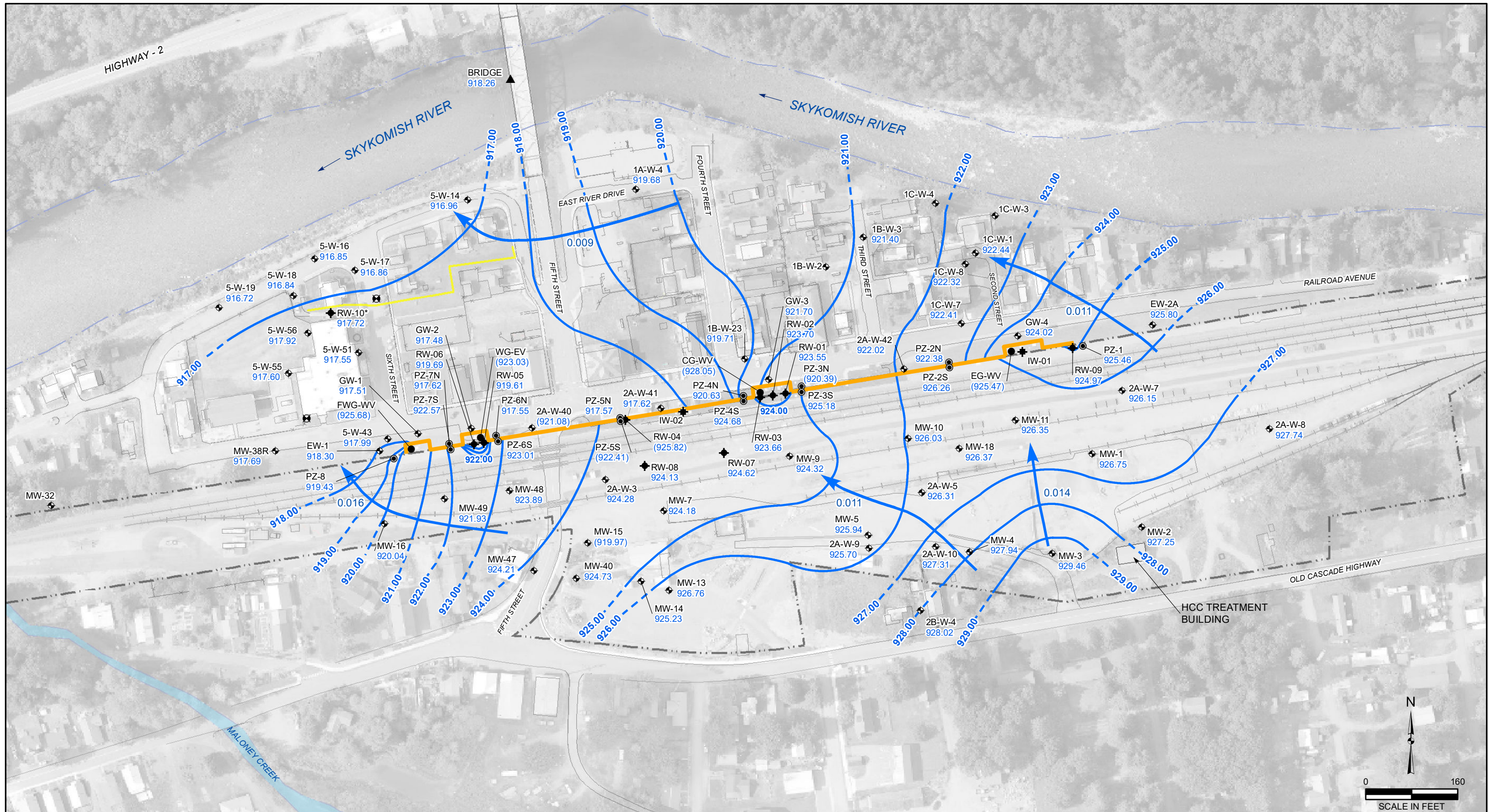
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FIGURE 5
 SEPTEMBER 2018
 GROUNDWATER ELEVATION CONTOUR MAP
 BNSF FORMER MAINTENANCE
 AND FUELING FACILITY
 SKYKOMISH, WASHINGTON
 FARALLON PN: 683-067

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LEGEND	
2A-W-41	MONITORING WELL
5-W-54	MONITORING WELL (DECOMMISSIONED SUMMER 2018)
RW-04	RECOVERY WELL
PZ-5S	PIEZOMETER
IW-02	INJECTION WELL
FWG-WV	BARRIER WALL GATE VAULT
BRIDGE	BRIDGE MEASURING POINT
917.10	GROUNDWATER OR SURFACE WATER (SKYKOMISH RIVER) ELEVATION IN FEET NAVD88 (DECEMBER, 2018)
(920.50)	GROUNDWATER ELEVATION NOT USED FOR CONTOURING
921.00	APPROXIMATE INTERPRETED GROUNDWATER ELEVATION CONTOUR IN FEET NAVD88 (INFERRED WHERE DASHED)
0.011	APPROXIMATE INTERPRETED DIRECTION OF GROUNDWATER FLOW AND GRADIENT (UNITS IN FOOT PER FOOT)

---	BNSF RAILYARD BOUNDARY	---	MECHANICALLY STABILIZED EARTH WALL
---	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SHEET PILE BARRIER WALL AND GATES		

NOTES:
 HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SENTRY WELLS NOT SHOWN. ONLY BARRIER WALL GATE VAULT LOCATIONS WHERE GROUNDWATER ELEVATIONS WERE MEASURED ARE SHOWN.
 NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
 IMAGERY SOURCE: KING COUNTY PICTOMETRY 2015

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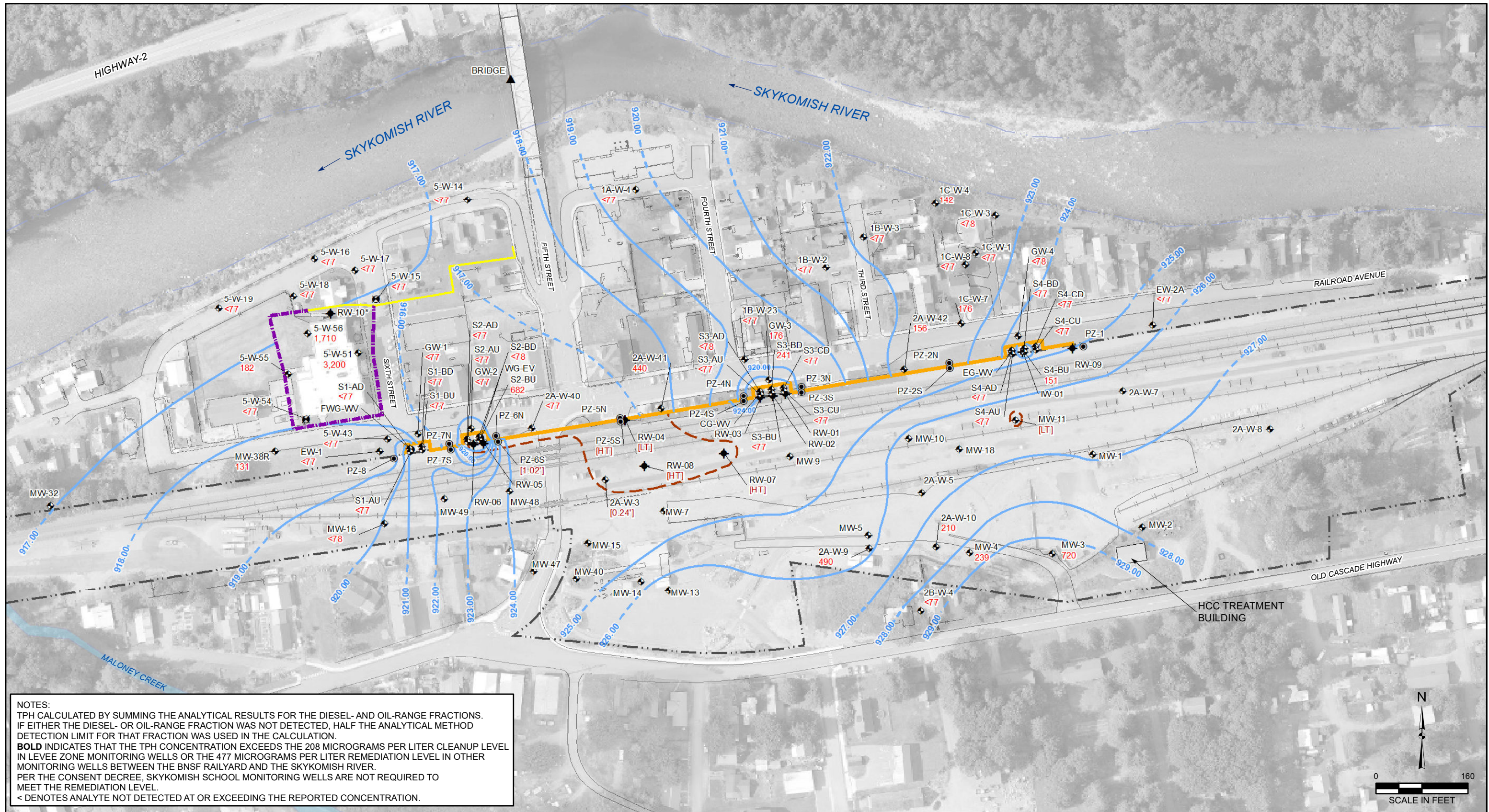
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FIGURE 6
 DECEMBER 2018
 GROUNDWATER ELEVATION CONTOUR MAP
 BNSF FORMER MAINTENANCE
 AND FUELING FACILITY
 SKYKOMISH, WASHINGTON
 FARALLON PN: 683-067



NOTES:
 TPH CALCULATED BY SUMMING THE ANALYTICAL RESULTS FOR THE DIESEL- AND OIL-RANGE FRACTIONS.
 IF EITHER THE DIESEL- OR OIL-RANGE FRACTION WAS NOT DETECTED, HALF THE ANALYTICAL METHOD
 DETECTION LIMIT FOR THAT FRACTION WAS USED IN THE CALCULATION.
BOLD INDICATES THAT THE TPH CONCENTRATION EXCEEDS THE 208 MICROGRAMS PER LITER CLEANUP LEVEL
 IN LEVEE ZONE MONITORING WELLS OR THE 477 MICROGRAMS PER LITER REMEDIATION LEVEL IN OTHER
 MONITORING WELLS BETWEEN THE BNSF RAILYARD AND THE SKYKOMISH RIVER.
 PER THE CONSENT DECREE, SKYKOMISH SCHOOL MONITORING WELLS ARE NOT REQUIRED TO
 MEET THE REMEDIATION LEVEL.
 < DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTED CONCENTRATION.

- 2A-W-41 ◆ MONITORING WELL
- 5-W-54 ◆ MONITORING WELL (DECOMMISSIONED SUMMER 2018)
- RW-04 ◆ RECOVERY WELL
- PZ-5S ● PIEZOMETER
- IW-02 ◆ INJECTION WELL
- WG-EV ● BARRIER WALL GATE VAULT
- BRIDGE ▲ BRIDGE MEASURING POINT

- LEGEND**
- 927.00--- APPROXIMATE INTERPRETED GROUNDWATER ELEVATION CONTOUR FEET NAVD88 (INFERRED WHERE DASHED)
 - HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SHEET PILE BARRIER WALL AND GATES
 - - - BNSF RAILYARD BOUNDARY
 - MECHANICALLY STABILIZED EARTH WALL
 - SKYKOMISH SCHOOL SHEET PILE BARRIER WALL (REMOVED SUMMER 2018)

- 117 TOTAL PETROLEUM HYDROCARBONS (TPH) IN MICROGRAMS PER LITER
- () ESTIMATED EXTENT OF LNAPL AS INDICATED BY LIGHT TRACE (LT), HEAVY TRACE (HT), OR MEASURABLE LNAPL THICKNESS ON GROUNDWATER SURFACE
- [HT] HEAVY TRACE - NO MEASURABLE LNAPL THICKNESS GREATER THAN 0.01 FOOT
- [LT] LIGHT TRACE - NO MEASURABLE LNAPL THICKNESS GREATER THAN 0.01 FOOT
- [1.15] MEASURABLE LNAPL THICKNESS GREATER THAN 0.01 FOOT
- * = FORMER HOT WATER FLUSHING SYSTEM RECOVERY WELL
- LNAPL = LIGHT NONAQUEOUS-PHASE LIQUID
- NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
- IMAGERY SOURCE: KING COUNTY PICTOMETRY 2015

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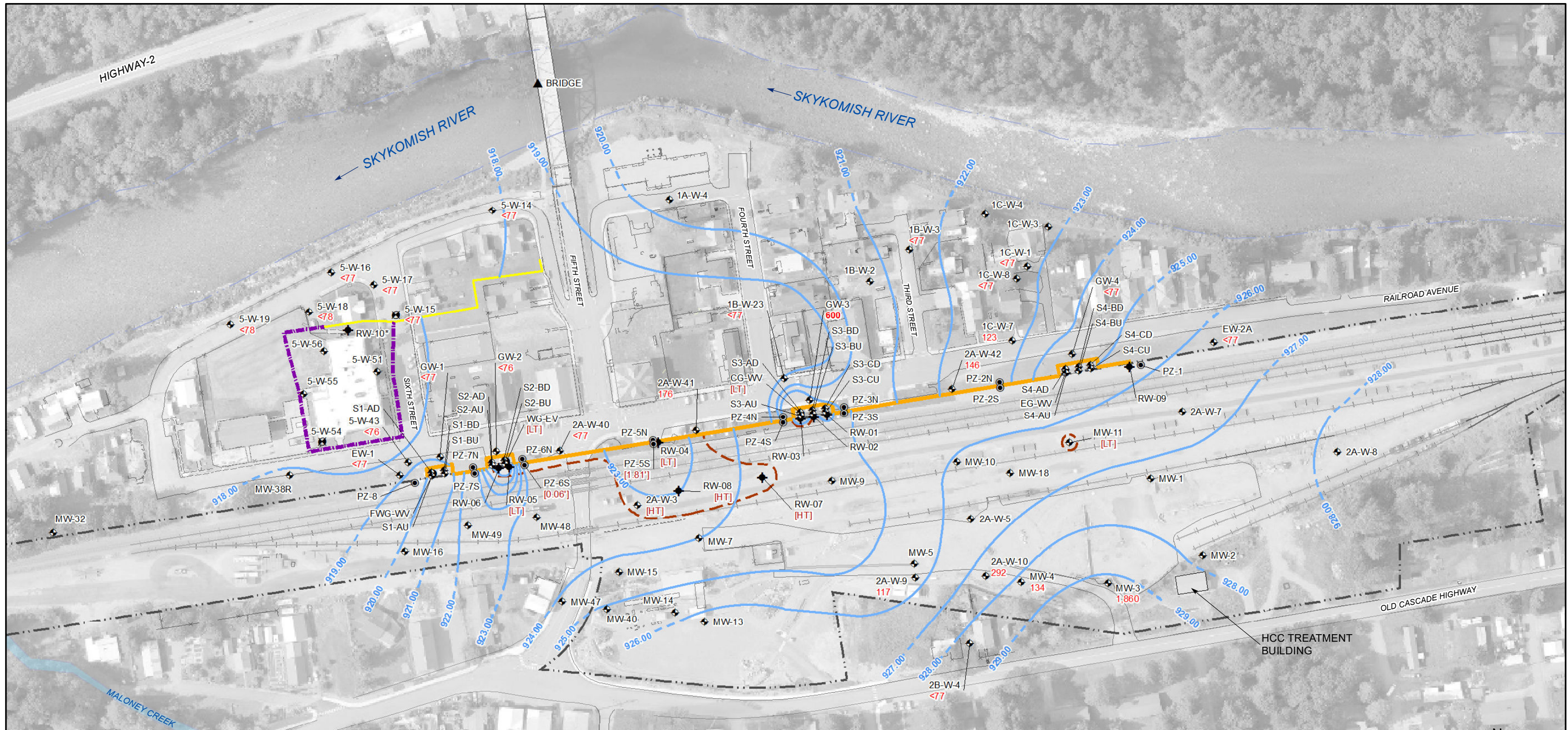
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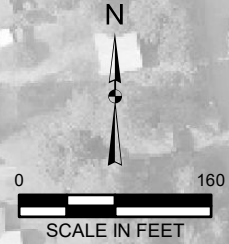
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FIGURE 7
 MARCH 2018 TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
 BNSF FORMER MAINTENANCE AND FUELING FACILITY
 SKYKOMISH, WASHINGTON

FARALLON PN: 683-067



NOTES:
 TPH CALCULATED BY SUMMING THE ANALYTICAL RESULTS FOR THE DIESEL- AND OIL-RANGE FRACTIONS. IF EITHER THE DIESEL- OR OIL-RANGE FRACTION WAS NOT DETECTED, HALF THE ANALYTICAL METHOD DETECTION LIMIT FOR THAT FRACTION WAS USED IN THE CALCULATION.
BOLD INDICATES THAT THE TPH CONCENTRATION EXCEEDS THE 208 MICROGRAMS PER LITER CLEANUP LEVEL IN LEVEE ZONE MONITORING WELLS OR THE 477 MICROGRAMS PER LITER REMEDIATION LEVEL IN OTHER MONITORING WELLS BETWEEN THE BNSF RAILYARD AND THE SKYKOMISH RIVER.
 PER THE CONSENT DECREE, SKYKOMISH SCHOOL MONITORING WELLS ARE NOT REQUIRED TO MEET THE REMEDIATION LEVEL.
 < DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTED CONCENTRATION.



LEGEND	
2A-W-41 ◆ MONITORING WELL	927.00--- APPROXIMATE INTERPRETED GROUNDWATER ELEVATION CONTOUR FEET NAVD88 (INFERRED WHERE DASHED)
5-W-54 ☒ MONITORING WELL (DECOMMISSIONED SUMMER 2018)	— HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SHEET PILE BARRIER WALL AND GATES
RW-04 ◆ RECOVERY WELL	- - - BNSF RAILYARD BOUNDARY
PZ-5S ● PIEZOMETER	— MECHANICALLY STABILIZED EARTH WALL
IW-02 ◆ INJECTION WELL	— SKYKOMISH SCHOOL SHEET PILE BARRIER WALL (REMOVED SUMMER 2018)
WG-EV ● BARRIER WALL GATE VAULT	
BRIDGE ▲ BRIDGE MEASURING POINT	

117	TOTAL PETROLEUM HYDROCARBONS (TPH) IN MICROGRAMS PER LITER
()	ESTIMATED EXTENT OF LNAPL AS INDICATED BY LIGHT TRACE (LT), HEAVY TRACE (HT), OR MEASURABLE LNAPL THICKNESS ON GROUNDWATER SURFACE
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LNAPL	LIGHT NONAQUEOUS-PHASE LIQUID
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
	IMAGERY SOURCE: KING COUNTY PICTOMETRY 2015

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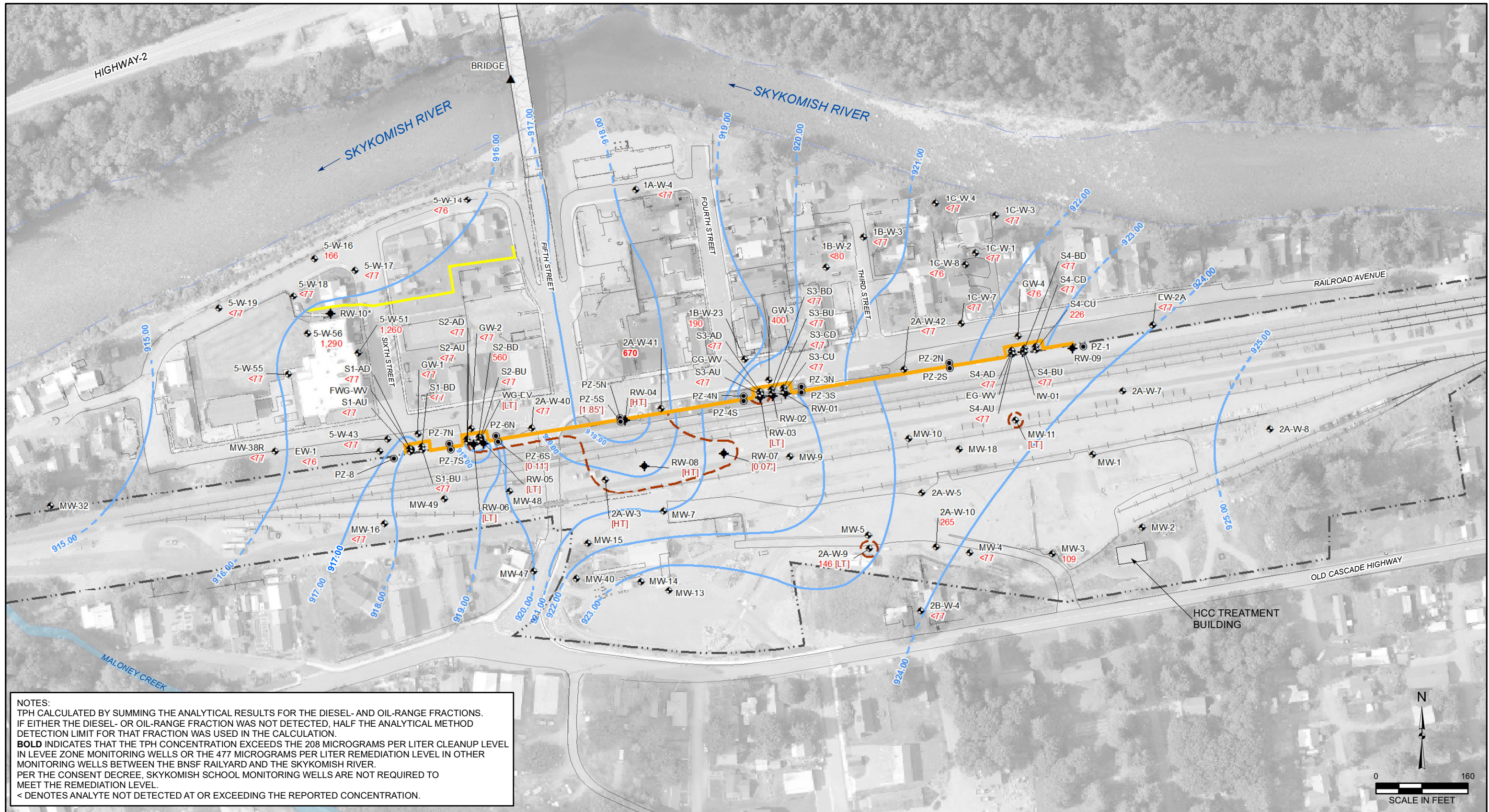
California
 Oakland | Folsom | Irvine

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FIGURE 8
 JUNE 2018 TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
 BNSF FORMER MAINTENANCE AND FUELING FACILITY
 SKYKOMISH, WASHINGTON

FARALLON PN: 683-067

Disc Reference: Q:\Projects\683 BNSF\067 GROUNDWATER_HCC\Mapfiles\GW_TPH_2018\FIGURE TPH-GW_7-8_MPBK_18.mxd



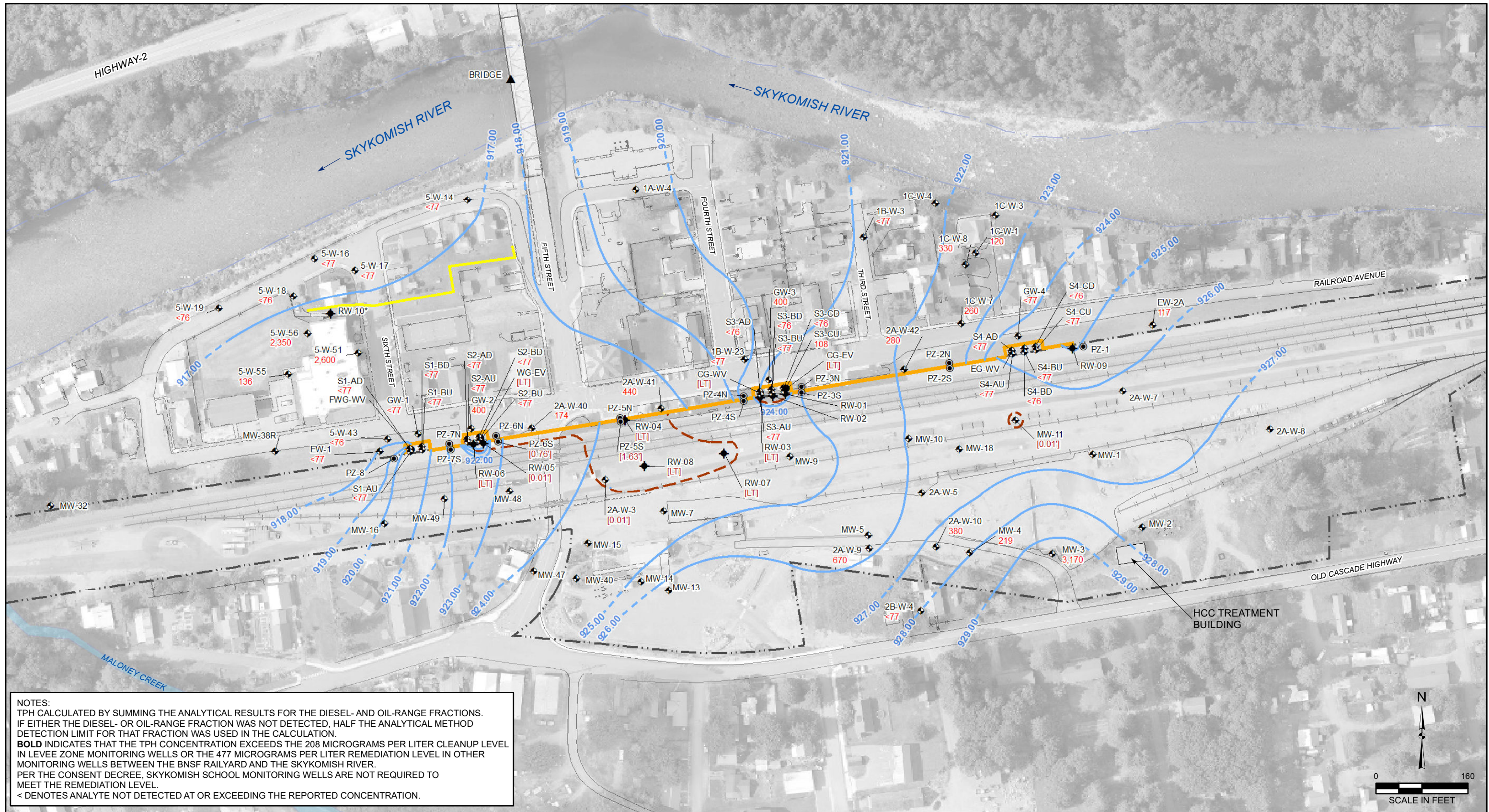
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LEGEND	
2A-W-41 ◆	MONITORING WELL
RW-04 ◆	RECOVERY WELL
PZ-5S ●	PIEZOMETER
IW-02 ◆	INJECTION WELL
WG-EV ●	BARRIER WALL GATE VAULT
BRIDGE ▲	BRIDGE MEASURING POINT
927.00--	APPROXIMATE INTERPRETED GROUNDWATER ELEVATION CONTOUR FEET NAVD88 (INFERRED WHERE DASHED)
—	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SHEET PILE BARRIER WALL AND GATES
- - -	BNSF RAILYARD BOUNDARY
—	MECHANICALLY STABILIZED EARTH WALL

117	TOTAL PETROLEUM HYDROCARBONS (TPH) IN MICROGRAMS PER LITER
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(1.15)	MEASURABLE LNAPL THICKNESS GREATER THAN 0.01 FOOT
*	FORMER HOT WATER FLUSHING SYSTEM RECOVERY WELL
LNAPL	LIGHT NONAQUEOUS-PHASE LIQUID
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
	IMAGERY SOURCE: KING COUNTY PICTOMETRY 2015


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FIGURE 9
 SEPTEMBER 2018 TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
 BNSF FORMER MAINTENANCE AND FUELING FACILITY
 SKYKOMISH, WASHINGTON
 FARALLON PN: 683-067



NOTES:
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LEGEND	
2A-W-41 ◆	MONITORING WELL
RW-04 ◆	RECOVERY WELL
PZ-5S ●	PIEZOMETER
IW-02 ◆	INJECTION WELL
WG-EV ●	BARRIER WALL GATE VAULT
BRIDGE ▲	BRIDGE MEASURING POINT
927.00--	APPROXIMATE INTERPRETED GROUNDWATER ELEVATION CONTOUR FEET NAVD88 (INFERRED WHERE DASHED)
—	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM SHEET PILE BARRIER WALL AND GATES
- - -	BNSF RAILYARD BOUNDARY
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LNAPL	LIGHT NONAQUEOUS-PHASE LIQUID
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
	IMAGERY SOURCE: KING COUNTY PICTOMETRY 2015


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FIGURE 10
 DECEMBER 2018 TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
 BNSF FORMER MAINTENANCE AND FUELING FACILITY
 SKYKOMISH, WASHINGTON
 FARALLON PN: 683-067

TABLES

**2018 SITE-WIDE GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA**

Farallon PN: 683-067

Table 1
2018 Groundwater Monitoring Event Dates
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Monitoring Event	Start Date	End Date
March Event	03/26/2018	03/28/2018
June Event	06/18/2018	06/20/2018
September Event	09/10/2018	09/12/2018
December Event	12/10/2018	12/13/2018

NOTE:

Sampling and liquid-level gauging details for the monitoring events are provided in Tables 2 and 3.

Table 2
2018 Groundwater Sampling Locations
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Area/Well Group	Well	March Monitoring Event	June Monitoring Event	September Monitoring Event	December Monitoring Event	Analyte	
Levee Zone	5-W-14	X	X	X	X	NWTPH-Dx	
	5-W-15	X	X	Decom	—	NWTPH-Dx	
	5-W-16	X	X	X	X	NWTPH-Dx	
	5-W-17	X	X	X	X	NWTPH-Dx	
	5-W-18	X	X	X	X	NWTPH-Dx	
	5-W-19	X	X	X	X	NWTPH-Dx	
Schoolyard	5-W-51	X	—	X	X ¹	NWTPH-Dx	
	5-W-54	X	—	Decom	—	NWTPH-Dx	
	5-W-55	X	—	X	X ¹	NWTPH-Dx	
	5-W-56	X	—	X	X ¹	NWTPH-Dx	
HCC System	S1-AD	X	—	X	X ²	NWTPH-Dx	
	S1-AU	X	—	X	X ²	NWTPH-Dx	
	S1-BD	X	—	X	X ²	NWTPH-Dx	
	S1-BU	X	—	X	X ²	NWTPH-Dx	
	S2-AD	X	—	X	X ²	NWTPH-Dx	
	S2-AU	X	—	X	X ²	NWTPH-Dx	
	S2-BD	X	—	X	X ²	NWTPH-Dx	
	S2-BU	X	—	X	X ²	NWTPH-Dx	
	S3-AD	X	—	X	X ²	NWTPH-Dx	
	S3-AU	X	—	X	X ²	NWTPH-Dx	
	S3-BD	X	—	X	X ²	NWTPH-Dx	
	S3-BU	X	—	X	X ²	NWTPH-Dx	
	S3-CD	X	—	X	X ²	NWTPH-Dx	
	S3-CU	X	—	X	X ²	NWTPH-Dx	
	S4-AD	X	—	X	X ²	NWTPH-Dx	
	S4-AU	X	—	X	X ²	NWTPH-Dx	
	S4-BD	X	—	X	X ²	NWTPH-Dx	
	S4-BU	X	—	X	X ²	NWTPH-Dx	
	S4-CD	X	—	X	X ²	NWTPH-Dx	
	S4-CU	X	—	X	X ²	NWTPH-Dx	
	GW-1	X	X	X	X	X	NWTPH-Dx
	GW-2	X	X	X	X	X	NWTPH-Dx
	GW-3	X	X	X	X	X	NWTPH-Dx
	GW-4	X	X	X	X	X	NWTPH-Dx
	EW-1	X	X	X	X	X	NWTPH-Dx
	EW-2A	X	X	X	X	X	NWTPH-Dx
	5-W-43	X	X	X	X	X	NWTPH-Dx
	2A-W-40	X	X	X	X	X	NWTPH-Dx
	2A-W-41	X	X	X	X	X	NWTPH-Dx
	1B-W-23	X	X	X	X	X	NWTPH-Dx
2A-W-42	X	X	X	X	X	NWTPH-Dx	
Former Air Sparge Area	1B-W-3	X	X	X	X	NWTPH-Dx	
	1C-W-7	X	X	X	X	NWTPH-Dx	
	1C-W-8	X	X	X	X	NWTPH-Dx	

Table 2
2018 Groundwater Sampling Locations
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Area/Well Group	Well	March Monitoring Event	June Monitoring Event	September Monitoring Event	December Monitoring Event	Analyte
Former Maloney Creek Zone	MW-3	X	X	X	X	NWTPH-Dx
	MW-4	X	X	X	X	NWTPH-Dx
	2A-W-9	X	X	X	X	NWTPH-Dx
	2A-W-10	X	X	X	X	NWTPH-Dx
	2B-W-4	X	X	X	X	NWTPH-Dx
Site-Wide	1A-W-4	X	—	X	—	NWTPH-Dx
	1B-W-2	X	—	X	—	NWTPH-Dx
	1C-W-1	X	X	X	X	NWTPH-Dx
	1C-W-3	X	—	X	—	NWTPH-Dx
	1C-W-4	X	—	X	—	NWTPH-Dx
	MW-16	X	—	X	—	NWTPH-Dx
	MW-38R	X	—	X	—	NWTPH-Dx

NOTES:

"—" denotes well not sampled.

¹Schoolyard wells sampled quarterly following removal of the hot water flushing remediation system.

²Sentry wells were sampled in December in response an HCC system shut-down that lasted more than 48 hours (as required by the 2010 Groundwater Monitoring Plan).

NWTPH-Dx = total petroleum hydrocarbons as diesel-range and oil-range organics

HCC = hydraulic control and containment

Decom = well decommissioned during summer of 2018

Table 3
2018 Liquid-Level Gauging Frequency
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Area/Well Group	Location	Gauging Frequency		
		Continuous ¹	Quarterly	Semiannually
Levee Zone	5-W-14	—	X	—
	5-W-15	—	X ²	—
	5-W-16	—	X	—
	5-W-17	—	X	—
	5-W-18	—	X	—
	5-W-19	—	X	—
Schoolyard	5-W-51	—	X ³	X ³
	5-W-54	—	—	X ²
	5-W-55	—	X ³	X ³
	5-W-56	—	X ³	X ³
	RW-10	—	X ³	—
HCC System	IW-01	—	—	X
	PZ-1	X	X	—
	PZ-2N	X	X	—
	PZ-2S	X	X	—
	PZ-3N	X	X	—
	PZ-3S	X	X	—
	PZ-4N	X	X	—
	PZ-4S	X	X	—
	PZ-5N	X	X	—
	PZ-5S	X	X	—
	PZ-6N	X	X	—
	PZ-6S	X	X	—
	PZ-7N	X	X	—
	PZ-7S	X	X	—
	PZ-8	X	X	—
	RW-01	X	X	—
	RW-02	X	X	—
	RW-03	X	X	—
	RW-04	X	X	—
	RW-05	X	X	—
	RW-06	X	X	—
RW-07	X	X	—	
RW-08	X	X	—	
RW-09	X	X	—	

Table 3
2018 Liquid-Level Gauging Frequency
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Area/Well Group	Location	Gauging Frequency		
		Continuous ¹	Quarterly	Semiannually
HCC System (continued)	EG-EV-South Chamber	—	X ⁴	—
	EG-EV-North Chamber	—	X ⁴	—
	EG-CV-South Chamber	—	X ⁴	—
	EG-CV-North Chamber	—	X ⁴	—
	EG-WV-South Chamber (formerly EG-WV or EV)	X	X	—
	EG-WV-North Chamber	—	X	—
	CG-EV-South Chamber	—	X ⁴	—
	CG-EV-North Chamber	—	X ⁴	—
	CG-CV-South Chamber	—	X ⁴	—
	CG-CV-North Chamber	—	X ⁴	—
	CG-WV-South Chamber (formerly CG-WV or CV)	X	X	—
	CG-WV-North Chamber	—	X	—
	WG-EV-South Chamber (formerly WG-EV or WV)	X	X	—
	WG-EV-North Chamber	—	X	—
	WG-WV-South Chamber	—	X ⁴	—
	WG-WV-North Chamber	—	X ⁴	—
	FWG-EV-South Chamber	—	X ⁴	—
	FWG-EV-North Chamber	—	X ⁴	—
	FWG-WV-South Chamber (formerly FWG-WV or FWV)	X	X	—
	FWG-WV-North Chamber	—	X	—
	GW-1	X	X	—
	GW-2	X	X	—
	GW-3	X	X	—
	GW-4	X	X	—
	EW-1	—	X	—
	EW-2A	—	X	—
5-W-43	—	X	—	
2A-W-40	—	X	—	
2A-W-41	—	X	—	
1B-W-23	—	X	—	
2A-W-42	—	X	—	
Former Air Sparge Area	1B-W-3	—	X	—
	1C-W-7	—	X	—
	1C-W-8	—	X	—

Table 3
2018 Liquid-Level Gauging Frequency
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Area/Well Group	Location	Gauging Frequency		
		Continuous ¹	Quarterly	Semiannually
Former Maloney Creek Zone and Surrounding Area	MW-1	—	X	—
	MW-2	—	X	—
	MW-3	—	X	—
	MW-4	—	X	—
	MW-5	—	X	—
	MW-7	—	X	—
	MW-9	—	X	—
	MW-10	—	X	—
	MW-11	—	X	—
	MW-13	—	X	—
	MW-14	—	X	—
	MW-15	—	X	—
	MW-18	—	X	—
	MW-40	—	X	—
	2A-W-3	—	X	—
	2A-W-5	—	X	—
	2A-W-7	—	X	—
	2A-W-9	—	X	—
2A-W-10	—	X	—	
2B-W-4	—	X	—	
Site-Wide	1A-W-4	—	X	—
	1B-W-2	—	—	X
	1C-W-1	—	X	—
	1C-W-3	—	—	X
	1C-W-4	—	—	X
	2A-W-8	—	X	—
	MW-16	—	X	—
	MW-32	—	—	X
	MW-38R	—	X	—
	MW-47	—	X	—
	MW-48	—	X	—
MW-49	—	X	—	
Surface Water Monitoring Station	Skykomish River Bridge	—	X	—

NOTES:

"—" denotes location not gauged at the frequency indicated.

HCC = hydraulic control and containment

¹Water-level transducers at the indicated locations provide continuous, real-time water level measurements; water levels are recorded hourly. Manual gauging for the presence of LNAPL at these locations is performed quarterly.

LNAPL = light nonaqueous-phase liquid

²Well decommissioned during summer of 2018.

³Schoolyard wells gauged quarterly following removal of the hot water flushing remediation system.

⁴Vault chamber is visually inspected for the presence of LNAPL. Depth to water normally is not measured; LNAPL thickness is measured if measurable LNAPL is present. Additional vault chambers added during June 2018 monitoring event.

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation ¹ (feet NAVD88)	Date	Depth to Water ² (feet)	Water Elevation ¹ (feet NAVD88)	LNAPL Thickness (feet)
Levee Zone Monitoring Wells					
5-W-14	926.59	3/26/2018	9.65	916.94	—
		6/18/2018	8.75	917.84	—
		9/10/2018	10.72	915.87	—
		12/10/2018	9.63	916.96	—
5-W-15	925.15	3/26/2018	8.13	917.02	—
		6/18/2018	7.28	917.87	—
		Decommissioned Summer 2018			
5-W-16	925.2	3/26/2018	8.40	916.80	—
		6/18/2018	7.49	917.71	—
		9/10/2018	9.55	915.65	—
		12/10/2018	8.35	916.85	—
5-W-17	924.6	3/26/2018	7.78	916.82	—
		6/18/2018	6.87	917.73	—
		9/10/2018	8.94	915.66	—
		12/10/2018	7.74	916.86	—
5-W-18	924.64	3/26/2018	7.82	916.82	—
		6/18/2018	6.92	917.72	—
		9/10/2018	9.02	915.62	—
		12/10/2018	7.80	916.84	—
5-W-19	924.35	3/26/2018	7.65	916.70	—
		6/18/2018	6.78	917.57	—
		9/10/2018	8.81	915.54	—
		12/10/2018	7.63	916.72	—
Schoolyard Monitoring Locations					
5-W-51	925.08	3/26/2018	8.03	917.05	—
		9/10/2018	8.83	916.25	—
		12/10/2018	7.53	917.55	—
5-W-54	924.58	3/26/2018	7.57	917.01	—
		Decommissioned Summer 2018			

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation¹ (feet NAVD88)	Date	Depth to Water² (feet)	Water Elevation¹ (feet NAVD88)	LNAPL Thickness (feet)
5-W-55	923.92	3/27/2018	6.36	917.56	—
		9/10/2018	7.81	916.11	—
		12/10/2018	6.32	917.60	—
5-W-56	924.76	3/27/2018	6.36	918.40	—
		9/10/2018	8.70	916.06	—
		12/10/2018	6.84	917.92	—
RW-10	925.11	9/10/2018	8.65	916.46	—
		12/10/2018	7.39	917.72	—
Hydraulic Control and Containment System Monitoring Locations					
IW-01	933.49	3/26/2018	9.78	923.71	—
		9/10/2018	10.09	923.40	—
PZ-1	935.38	3/26/2018	10.98	924.40	—
		6/18/2018	9.43	925.95	—
		9/10/2018	11.65	923.73	—
		12/10/2018	9.92	925.46	—
PZ-2N	934.35	3/26/2018	13.31	921.04	—
		6/18/2018	11.66	922.69	—
		9/10/2018	12.99	921.36	—
		12/10/2018	11.97	922.38	—
PZ-2S	934.94	3/26/2018	10.11	924.83	—
		6/18/2018	9.71	925.23	—
		9/10/2018	11.56	923.38	—
		12/10/2018	8.68	926.26	—
PZ-3N	934.41	3/26/2018	15.20	919.21	—
		6/18/2018	13.93	920.48	—
		9/10/2018	14.00	920.41	—
		12/10/2018	14.02	920.39	—

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation¹ (feet NAVD88)	Date	Depth to Water² (feet)	Water Elevation¹ (feet NAVD88)	LNAPL Thickness (feet)
PZ-3S	934.45	3/26/2018	10.38	924.07	—
		6/18/2018	9.25	925.20	—
		9/10/2018	12.20	922.25	—
		12/10/2018	9.27	925.18	—
PZ-4N	935.27	3/28/2018	14.64	920.63	—
		6/18/2018	14.59	920.68	—
		9/10/2018	14.65	920.62	—
		12/10/2018	14.64	920.63	—
PZ-4S	935.31	3/26/2018	11.76	923.55	—
		6/18/2018	10.69	924.62	—
		9/10/2018	13.85	921.46	—
		12/10/2018	10.63	924.68	—
PZ-5N	933.15	3/26/2018	16.71	916.44	—
		6/18/2018	14.91	918.24	—
		9/10/2018	15.18	917.97	—
		12/10/2018	15.58	917.57	—
PZ-5S	933.46	3/26/2018	9.19	924.27	Heavy Trace
		6/18/2018	11.30	922.16	1.81
		9/10/2018	15.05	918.41	1.85
		12/10/2018	11.05	922.41	1.63
PZ-6N	931.17	3/26/2018	14.99	916.18	—
		6/18/2018	12.97	918.20	—
		9/10/2018	14.50	916.67	—
		12/10/2018	13.62	917.55	—
PZ-6S	931.41	3/26/2018	8.51	922.90	1.02
		6/18/2018	7.69	923.72	0.06
		9/10/2018	11.60	919.81	0.11
		12/10/2018	8.40	923.01	0.76

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation¹ (feet NAVD88)	Date	Depth to Water² (feet)	Water Elevation¹ (feet NAVD88)	LNAPL Thickness (feet)
PZ-7N	930.37	3/26/2018	14.03	916.34	—
		6/18/2018	12.09	918.28	—
		9/10/2018	14.50	915.87	—
		12/10/2018	12.75	917.62	—
PZ-7S	930.4	3/26/2018	8.88	921.52	—
		6/18/2018	7.67	922.73	—
		9/10/2018	11.87	918.53	—
		12/10/2018	7.83	922.57	—
PZ-8	929.48	3/26/2018	10.92	918.56	—
		6/18/2018	9.56	919.92	—
		9/10/2018	12.20	917.28	—
		12/10/2018	10.05	919.43	—
RW-01	932.84	3/26/2018	8.82	924.02	—
		6/18/2018	8.89	923.95	—
		9/10/2018	11.63	921.21	—
		12/10/2018	9.29	923.55	—
RW-02	933.84	3/26/2018	9.80	924.04	—
		6/18/2018	9.84	924.00	—
		9/10/2018	12.58	921.26	—
		12/10/2018	10.14	923.70	—
RW-03	933.80	3/26/2018	9.76	924.04	—
		6/18/2018	9.89	923.91	—
		9/10/2018	12.52	921.28	Light Trace
		12/10/2018	10.14	923.66	Light Trace
RW-04	931.86	3/26/2018	7.44	924.42	Light Trace
		6/18/2018	8.89	922.97	Light Trace
		9/10/2018	13.35	918.51	Heavy Trace
		12/10/2018	6.04	925.82	Light Trace

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation¹ (feet NAVD88)	Date	Depth to Water² (feet)	Water Elevation¹ (feet NAVD88)	LNAPL Thickness (feet)
RW-05	928.53	3/26/2018	10.50	918.03	—
		6/18/2018	9.64	918.89	Light Trace
		9/10/2018	12.53	916.00	Light Trace
		12/10/2018	8.92	919.61	0.01
RW-06	928.53	3/26/2018	10.37	918.16	—
		6/18/2018	9.54	918.99	—
		9/10/2018	11.85	916.68	Light Trace
		12/10/2018	8.84	919.69	Light Trace
RW-07	933.06	3/26/2018	8.36	924.70	Heavy Trace
		6/18/2018	8.51	924.55	Heavy Trace
		9/10/2018	11.68	921.38	0.07
		12/10/2018	8.44	924.62	Light Trace
RW-08	931.85	3/26/2018	9.69	922.16	Heavy Trace
		6/18/2018	8.86	922.99	Heavy Trace
		9/10/2018	11.98	919.87	Heavy Trace
		12/10/2018	7.72	924.13	Light Trace
RW-09	933.96	3/26/2018	8.72	925.24	—
		6/18/2018	8.57	925.39	Light Trace ⁴
		9/10/2018	10.60	923.36	—
		12/10/2018	8.99	924.97	—
EG-EV-South Chamber ³	NA	6/18/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	—
EG-EV-North Chamber ³	NA	6/18/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	—
EG-CV-South Chamber ³	NA	6/19/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	—

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation¹ (feet NAVD88)	Date	Depth to Water² (feet)	Water Elevation¹ (feet NAVD88)	LNAPL Thickness (feet)
EG-CV-North Chamber ³	NA	6/19/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	—
EG-WV-South Chamber (formerly EG-WV or EV)	934.31	3/26/2018	10.13	924.18	—
		6/18/2018	8.42	925.89	—
		9/10/2018	10.46	923.85	—
		12/10/2018	8.84	925.47	—
EG-WV-North Chamber	934.31	6/18/2018	8.41	925.90	—
		9/10/2018	10.46	923.85	—
		12/10/2018	8.84	925.47	—
CG-EV-South Chamber ³	NA	6/18/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	Light Trace
CG-EV-North Chamber ³	NA	6/18/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	—
CG-CV-South Chamber ³	NA	6/18/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	—
CG-CV-North Chamber ³	NA	6/18/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	—
CG-WV-South Chamber (formerly CG-WV or CV)	937.09	3/26/2018	13.22	923.87	—
		6/18/2018	8.75	928.34	Light Trace
		9/10/2018	11.55	925.54	—
		12/10/2018	9.04	928.05	Light Trace
CG-WV-North Chamber	937.09	6/18/2018	8.66	928.43	—
		9/10/2018	11.46	925.63	—
		12/10/2018	9.02	928.07	—

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation¹ (feet NAVD88)	Date	Depth to Water² (feet)	Water Elevation¹ (feet NAVD88)	LNAPL Thickness (feet)
WG-EV-South Chamber (formerly WG-EV or WV)	931.84	3/26/2018	13.61	918.23	—
		6/18/2018	8.45	923.39	Light Trace
		9/10/2018	10.41	921.43	Light Trace
		12/10/2018	8.81	923.03	Light Trace
WG-EV-North Chamber	931.84	6/18/2018	8.42	923.42	—
		9/10/2018	10.38	921.46	Slight Light Sheen
		12/10/2018	8.81	923.03	—
WG-WV-South Chamber ³	NA	6/18/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	—
WG-WV-North Chamber ³	NA	6/18/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	—
FWG-EV-South Chamber ³	NA	6/18/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	—
FWG-EV-North Chamber ³	NA	6/18/2018	NM	NA	—
		9/10/2018	NM	NA	—
		12/10/2018	NM	NA	—
FWG-WV-South Chamber (formerly FWG-WV or FWV)	930.76	3/26/2018	9.41	921.35	—
		6/18/2018	5.14	925.62	—
		9/10/2018	7.93	922.83	—
		12/10/2018	5.08	925.68	—
FWG-WV-North Chamber	930.76	6/18/2018	5.09	925.67	—
		9/10/2018	7.91	922.85	—
		12/10/2018	5.08	925.68	—
GW-1	928.24	3/26/2018	10.65	917.59	—
		6/18/2018	9.99	918.25	—
		9/10/2018	11.71	916.53	—
		12/10/2018	10.73	917.51	—

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation¹ (feet NAVD88)	Date	Depth to Water² (feet)	Water Elevation¹ (feet NAVD88)	LNAPL Thickness (feet)
GW-2	930.29	3/26/2018	12.68	917.61	—
		6/18/2018	12.17	918.12	—
		9/10/2018	13.68	916.61	—
		12/10/2018	12.81	917.48	—
GW-3	935.82	3/26/2018	14.56	921.26	—
		6/18/2018	14.17	921.65	—
		9/10/2018	15.35	920.47	—
		12/10/2018	14.12	921.70	—
GW-4	934.68	3/26/2018	10.52	924.16	—
		6/18/2018	10.35	924.33	—
		9/10/2018	12.14	922.54	—
		12/10/2018	10.66	924.02	—
EW-1	928.72	3/26/2018	10.05	918.67	—
		6/18/2018	9.82	918.90	—
		9/10/2018	11.88	916.84	—
		12/10/2018	10.42	918.30	—
EW-2A	936.2	3/26/2018	10.35	925.85	—
		6/18/2018	9.94	926.26	—
		9/10/2018	12.32	923.88	—
		12/10/2018	10.40	925.80	—
5-W-43	926.18	3/26/2018	7.80	918.38	—
		6/18/2018	7.54	918.64	—
		9/10/2018	9.51	916.67	—
		12/10/2018	8.19	917.99	—
2A-W-40	933.34	3/26/2018	12.25	921.09	—
		6/18/2018	11.81	921.53	—
		9/10/2018	14.26	919.08	—
		12/10/2018	12.26	921.08	—

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation¹ (feet NAVD88)	Date	Depth to Water² (feet)	Water Elevation¹ (feet NAVD88)	LNAPL Thickness (feet)
2A-W-41	935.22	3/26/2018	17.53	917.69	—
		6/18/2018	16.96	918.26	—
		9/10/2018	18.49	916.73	—
		12/10/2018	17.60	917.62	—
1B-W-23	936.25	3/26/2018	16.95	919.30	—
		6/18/2018	17.34	918.91	—
		9/10/2018	17.70	918.55	—
		12/10/2018	16.54	919.71	—
2A-W-42	935.37	3/26/2018	13.10	922.27	—
		6/18/2018	13.11	922.26	—
		9/10/2018	13.58	921.79	—
		12/10/2018	13.35	922.02	—
Former Air Sparge Area Monitoring Wells					
1B-W-3	936.66	3/26/2018	10.51	926.15	—
		6/18/2018	15.02	921.64	—
		9/10/2018	16.01	920.65	—
		12/10/2018	15.26	921.40	—
1C-W-7	935.04	3/26/2018	12.61	922.43	—
		6/18/2018	12.32	922.72	—
		9/10/2018	13.70	921.34	—
		12/10/2018	12.63	922.41	—
1C-W-8	935.7	3/26/2018	13.26	922.44	—
		6/18/2018	13.07	922.63	—
		9/10/2018	14.40	921.30	—
		12/10/2018	13.38	922.32	—

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation ¹ (feet NAVD88)	Date	Depth to Water ² (feet)	Water Elevation ¹ (feet NAVD88)	LNAPL Thickness (feet)
Former Maloney Creek Zone and Surrounding Area Monitoring Wells					
MW-1	939.2	3/26/2018	12.24	926.96	—
		6/18/2018	12.02	927.18	—
		9/10/2018	14.90	924.30	—
		12/10/2018	12.45	926.75	—
MW-2	939.2	3/26/2018	11.79	927.41	—
		6/18/2018	11.50	927.70	—
		9/10/2018	14.77	924.43	—
		12/10/2018	11.95	927.25	—
MW-3	938.03	3/26/2018	8.08	929.95	—
		6/18/2018	8.84	929.19	—
		9/10/2018	13.57	924.46	—
		12/10/2018	8.57	929.46	—
MW-4	936.95	3/26/2018	8.69	928.26	—
		6/18/2018	8.83	928.12	—
		9/10/2018	12.81	924.14	—
		12/10/2018	9.01	927.94	—
MW-5	933.36	3/26/2018	7.51	925.85	—
		6/18/2018	7.68	925.68	—
		9/10/2018	10.40	922.96	—
		12/10/2018	7.42	925.94	—
MW-7	936.89	3/26/2018	12.62	924.27	—
		6/18/2018	12.85	924.04	—
		9/10/2018	15.85	921.04	—
		12/10/2018	12.71	924.18	—
MW-9	937.53	3/26/2018	13.06	924.47	—
		6/18/2018	13.27	924.26	—
		9/10/2018	16.36	921.17	—
		12/10/2018	13.21	924.32	—

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation¹ (feet NAVD88)	Date	Depth to Water² (feet)	Water Elevation¹ (feet NAVD88)	LNAPL Thickness (feet)
MW-10	938.34	3/26/2018	12.16	926.18	—
		6/18/2018	12.22	926.12	—
		9/10/2018	15.10	923.24	—
		12/10/2018	12.31	926.03	—
MW-11	939.2	3/26/2018	12.69	926.51	Light Trace
		6/18/2018	12.70	926.50	Light Trace
		9/10/2018	15.72	923.48	Light Trace
		12/10/2018	12.85	926.35	0.01
MW-13	936.49	3/26/2018	9.58	926.91	—
		6/18/2018	9.73	926.76	—
		9/10/2018	12.57	923.92	—
		12/10/2018	9.73	926.76	—
MW-14	936.8	3/26/2018	11.56	925.24	—
		6/18/2018	11.67	925.13	—
		9/10/2018	13.68	923.12	—
		12/10/2018	11.57	925.23	—
MW-15	933.32	3/26/2018	13.26	920.06	—
		6/18/2018	13.48	919.84	—
		9/10/2018	16.78	916.54	—
		12/10/2018	13.35	919.97	—
MW-18	940.68	3/26/2018	14.16	926.52	—
		6/18/2018	14.16	926.52	—
		9/10/2018	17.09	923.59	—
		12/10/2018	14.31	926.37	—
MW-40	936.95	3/26/2018	12.02	924.93	—
		6/18/2018	11.82	925.13	—
		9/10/2018	14.49	922.46	—
		12/10/2018	12.22	924.73	—

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation¹ (feet NAVD88)	Date	Depth to Water² (feet)	Water Elevation¹ (feet NAVD88)	LNAPL Thickness (feet)
2A-W-3	934.43	3/26/2018	10.13	924.30	0.24
		6/18/2018	10.41	924.02	Heavy Trace
		9/10/2018	13.80	920.63	Heavy Trace
		12/10/2018	10.15	924.28	0.01
2A-W-5	939.47	3/26/2018	13.05	926.42	—
		6/18/2018	13.17	926.30	—
		9/10/2018	15.98	923.49	—
		12/10/2018	13.16	926.31	—
2A-W-7	937.76	3/26/2018	11.43	926.33	—
		6/18/2018	11.23	926.53	—
		9/10/2018	13.50	924.26	—
		12/10/2018	11.61	926.15	—
2A-W-9	936.58	3/26/2018	10.70	925.88	—
		6/18/2018	10.84	925.74	—
		9/10/2018	13.63	922.95	Light Trace
		12/10/2018	10.88	925.70	—
2A-W-10	937.93	3/26/2018	10.26	927.67	—
		6/18/2018	10.41	927.52	—
		9/10/2018	14.10	923.83	—
		12/10/2018	10.62	927.31	—
2B-W-4	931.03	3/26/2018	2.56	928.47	—
		6/18/2018	2.63	928.40	—
		9/10/2018	7.05	923.98	—
		12/10/2018	3.01	928.02	—

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation ¹ (feet NAVD88)	Date	Depth to Water ² (feet)	Water Elevation ¹ (feet NAVD88)	LNAPL Thickness (feet)
Site-Wide Monitoring Wells					
1A-W-4	929.07	3/26/2018	9.38	919.69	—
		6/18/2018	8.78	920.29	—
		9/10/2018	10.81	918.26	—
		12/10/2018	9.39	919.68	—
1B-W-2	935.81	3/26/2018	14.15	921.66	—
		9/10/2018	14.95	920.86	—
1C-W-1	936.44	3/26/2018	13.83	922.61	—
		6/18/2018	13.58	922.86	—
		9/10/2018	14.96	921.48	—
		12/10/2018	14.00	922.44	—
1C-W-3	933.56	3/26/2018	10.86	922.70	—
		9/10/2018	12.30	921.26	—
1C-W-4	932.74	3/26/2018	10.55	922.19	—
		9/10/2018	11.51	921.23	—
2A-W-8	942.62	3/26/2018	14.70	927.92	—
		6/18/2018	14.43	928.19	—
		9/10/2018	17.07	925.55	—
		12/10/2018	14.88	927.74	—
MW-16	933.32	3/26/2018	13.31	920.01	—
		6/18/2018	13.07	920.25	—
		9/10/2018	15.56	917.76	—
		12/10/2018	13.28	920.04	—
MW-32	926.06	3/26/2018	9.22	916.84	—
		9/10/2018	11.38	914.68	—
MW-38R	922.56	3/26/2018	4.07	918.49	—
		6/18/2018	4.52	918.04	—
		9/10/2018	6.62	915.94	—
		12/10/2018	4.87	917.69	—

Table 4
2018 Water-Level Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Location	Measuring Point Elevation¹ (feet NAVD88)	Date	Depth to Water² (feet)	Water Elevation¹ (feet NAVD88)	LNAPL Thickness (feet)
MW-47	932.61	3/26/2018	8.31	924.30	—
		6/18/2018	8.52	924.09	—
		9/10/2018	12.65	919.96	—
		12/10/2018	8.40	924.21	—
MW-48	933.9	3/26/2018	9.89	924.01	—
		6/18/2018	10.09	923.81	—
		9/10/2018	13.76	920.14	—
		12/10/2018	10.01	923.89	—
MW-49	933.14	3/26/2018	10.91	922.23	—
		6/18/2018	11.01	922.13	—
		9/10/2018	14.45	918.69	—
		12/10/2018	11.21	921.93	—
Surface Water Monitoring Station					
Skykomish River Bridge	943.09	3/26/2018	24.90	918.19	—
		6/18/2018	23.51	919.58	—
		9/10/2018	25.90	917.19	—
		12/10/2018	24.83	918.26	—

NOTES:

— denotes LNAPL was not observed.

¹Elevations referenced to North American Vertical Datum of 1988 (NAVD88).

²Depths referenced to measuring point (e.g., top of well casing, top of vault).

³Vault oil-water separator chamber is visually inspected for presence of LNAPL during monitoring events. LNAPL thickness measured only if measurable LNAPL is present.

⁴Interface probe malfunction suspected.

LNAPL = light nonaqueous-phase liquid

NA = not applicable

NM = not measured

Table 5
2018 Stabilized Groundwater Field Parameter Values
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Temperature (degrees Celsius)	pH (Standard Units)	Dissolved Oxygen (milligrams per liter)	Oxidation-Reduction Potential (millivolts)	Specific Conductivity (mS/cm)
Levee Zone Monitoring Wells						
5-W-14	3/28/2018	7.0	6.57	5.65	216.6	0.090
	6/19/2018	11.7	6.44	5.69	168.8	0.089
	9/12/2018	9.1	6.70	5.42	280.4	0.085
	12/12/2018	6.9	6.61	5.59	110.0	0.078
5-W-15	3/28/2018	7.0	6.87	0.28	-18.1	0.105
	6/19/2018	12.1	6.73	0.36	55.2	0.116
5-W-16	3/27/2018	4.6	6.68	6.73	215.6	0.090
	6/19/2018	11.9	6.99	8.89	335.1	0.052
	9/11/2018	13.3	6.85	7.20	165.7	0.066
	12/12/2018	4.6	6.66	9.44	88.5	0.071
5-W-17	3/27/2018	6.9	6.44	5.83	266.6	0.076
	6/19/2018	10.3	6.34	5.81	204.7	0.079
	9/11/2018	9.9	6.70	5.68	329.9	0.079
	12/12/2018	7.1	6.39	5.65	214.9	0.079
5-W-18	3/27/2018	6.2	6.49	4.97	245.9	0.081
	6/19/2018	11.1	6.48	3.75	314.7	0.097
	9/11/2018	10.5	6.47	4.16	172.1	0.101
	12/11/2018	6.2	6.43	5.08	177.1	0.088
5-W-19	3/27/2018	6.8	6.54	IE	232.9	0.068
	6/19/2018	12.1	6.49	7.60	171.5	0.066
	9/11/2018	11.3	6.53	7.01	358.2	0.067
	12/11/2018	6.1	6.63	5.11	304.7	0.076
Schoolyard Monitoring Wells						
5-W-51	3/27/2018	10.4	6.27	0.21	89.5	0.434
	9/12/2018	11.3	6.28	0.8	79.7	0.102
	12/12/2018	8.1	6.28	5.48	165.9	0.147
5-W-54	3/27/2018	6.8	6.49	4.65	251.2	0.098

Table 5
2018 Stabilized Groundwater Field Parameter Values
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Temperature (degrees Celsius)	pH (Standard Units)	Dissolved Oxygen (milligrams per liter)	Oxidation-Reduction Potential (millivolts)	Specific Conductivity (mS/cm)
5-W-55	3/27/2018	9.7	6.47	0.81	146.5	0.272
	9/11/2018	16.0	6.34	0.75	89.6	0.134
	12/11/2018	9.2	6.10	0.61	318.3	0.242
5-W-56	3/27/2018	12.5	6.47	0.32	-86.8	0.516
	9/11/2018	18.0	6.61	0.53	213.0	1.500
	12/11/2018	12.3	6.11	2.19	94.5	0.625
Hydraulic Control and Containment System Monitoring Wells						
GW-1	3/28/2018	5.7	6.15	3.93	182.6	0.092
	6/19/2018	11.2	6.24	1.41	300.3	0.097
	9/12/2018	11.5	6.27	0.74	110.0	0.086
	12/11/2018	6.2	5.88	64.5	254.0	0.058
GW-2	3/28/2018	6.9	6.37	2.38	141.8	0.080
	6/19/2018	12.1	6.20	0.72	74.6	0.081
	9/12/2018	11.7	6.24	1.16	251.5	0.086
	12/11/2018	7.2	6.80	7.48	254.3	0.052
GW-3	3/28/2018	6.9	6.05	3.36	167.7	0.097
	6/20/2018	11.0	5.98	1.46	200.1	0.094
	9/12/2018	12.0	5.97	1.69	-33.5	0.082
	12/11/2018	5.1	5.90	5.22	155.2	0.080
GW-4	3/27/2018	6.3	6.24	2.41	106.4	0.091
	6/20/2018	10.3	6.43	3.58	120.8	0.098
	9/11/2018	10.0	6.08	3.31	197.8	0.073
	12/11/2018	7.4	6.90	5.14	377.5	0.095
EW-1	3/27/2018	5.9	6.13	3.11	263.2	0.070
	6/19/2018	9.5	6.11	2.45	325.4	0.067
	9/12/2018	9.0	6.12	0.71	294.3	0.065
	12/12/2018	9.8	6.06	0.91	294.2	0.097
EW-2A	3/27/2018	5.0	6.15	8.29	199.5	0.068
	6/20/2018	9.4	5.80	6.37	212.1	0.051
	9/11/2018	9.5	5.84	5.72	58.9	0.059
	12/11/2018	6.3	5.93	6.39	164.3	0.092

Table 5
2018 Stabilized Groundwater Field Parameter Values
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Temperature (degrees Celsius)	pH (Standard Units)	Dissolved Oxygen (milligrams per liter)	Oxidation-Reduction Potential (millivolts)	Specific Conductivity (mS/cm)
5-W-43	3/27/2018	5.3	6.20	3.76	281.6	0.067
	6/19/2018	10.0	6.01	3.02	244.2	0.069
	9/12/2018	10.4	5.99	1.57	298.2	0.077
	12/11/2018	8.7	6.04	3.08	333.9	0.095
2A-W-40	3/28/2018	6.6	6.64	10.24	213.3	0.044
	6/19/2018	9.7	6.49	8.12	180.5	0.051
	9/12/2018	10.0	6.72	6.56	128.4	0.057
	12/11/2018	4.1	7.19	12.43	185.7	0.028
2A-W-41	3/28/2018	7.4	6.39	6.09	80.3	0.149
	6/20/2018	12.2	6.27	7.05	100.0	0.144
	9/12/2018	11.4	6.45	1.17	-104.9	0.189
	12/12/2018	9.8	6.24	4.86	76.4	0.150
1B-W-23	3/28/2018	6.1	6.45	11.50	163.3	0.062
	6/20/2018	12.7	6.25	9.66	372.1	0.086
	9/12/2018	15.2	6.31	8.02	220.5	0.129
	12/11/2018	7.6	6.19	10.21	391.5	0.054
2A-W-42	3/28/2018	6.9	6.22	4.27	170.6	0.166
	6/20/2018	11.8	5.97	2.39	192.6	0.124
	9/11/2018	11.6	5.93	5.12	225.1	0.172
	12/11/2018	8.5	6.00	2.03	169.7	0.153
Former Air Sparge Area Monitoring Wells						
1B-W-3	3/28/2018	6.8	6.55	2.31	111.8	0.111
	6/20/2018	9.7	6.39	2.25	140.8	0.115
	9/12/2018	10.3	6.10	1.81	-54.1	0.096
	12/11/2018	8.9	6.39	3.60	220.5	0.147
1C-W-7	3/28/2018	6.4	5.77	4.46	185.3	0.069
	6/20/2018	10.5	5.96	4.13	333.1	0.069
	9/11/2018	11.6	6.01	2.07	-37.5	0.096
	12/11/2018	8.0	6.00	3.03	367.6	0.102
1C-W-8	3/27/2018	6.2	6.13	7.18	104.6	0.080
	6/20/2018	10.7	5.98	7.53	243.7	0.059
	9/11/2018	9.9	5.94	4.92	7.8	0.140
	12/12/2018	9.2	5.97	8.89	196.8	0.081

Table 5
2018 Stabilized Groundwater Field Parameter Values
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Temperature (degrees Celsius)	pH (Standard Units)	Dissolved Oxygen (milligrams per liter)	Oxidation-Reduction Potential (millivolts)	Specific Conductivity (mS/cm)
Former Maloney Creek Zone Monitoring Wells						
MW-3	3/27/2018	3.6	5.66	8.24	207.1	0.059
	6/19/2018	10.3	5.68	0.46	57.2	0.179
	9/12/2018	10.2	5.86	0.21	78.8	0.091
	12/11/2018	8.8	5.83	3.07	205.3	0.190
MW-4	3/27/2018	4.4	5.92	1.47	151.3	0.069
	6/19/2018	9.5	5.92	2.18	228.4	0.059
	9/12/2018	11.2	5.81	1.05	-115.4	0.067
	12/11/2018	7.3	5.85	0.29	176.2	0.085
2A-W-9	3/27/2018	4.8	5.83	0.53	31.0	0.050
	6/19/2018	11.6	6.02	0.25	39.8	0.048
	9/12/2018	11.6	6.14	0.64	71.5	0.089
	12/11/2018	6.9	6.14	1.31	131.0	0.076
2A-W-10	3/27/2018	3.2	5.96	3.74	197.9	0.063
	6/19/2018	11.0	5.75	0.46	117.1	0.045
	9/12/2018	11.5	5.49	0.70	212.7	0.072
	12/11/2018	6.5	5.85	1.22	294.3	0.069
2B-W-4	3/28/2018	4.1	6.37	5.83	177.6	0.049
	6/19/2018	8.4	6.24	3.94	348.4	0.044
	9/12/2018	12.0	6.01	1.68	188.5	0.093
	12/12/2018	8.9	5.95	1.28	223.4	0.076
Site-Wide Monitoring Wells						
1A-W-4	3/28/2018	7.2	6.56	7.53	187.2	0.086
	9/12/2018	9.6	6.50	7.72	225.0	0.081
1B-W-2	3/28/2018	6.7	6.08	9.67	194.3	0.181
	9/12/2018	11.5	5.93	1.26	177.8	0.221
1C-W-1	3/27/2018	6.3	5.73	6.13	187.2	0.048
	6/20/2018	11.2	5.92	6.70	216.9	0.055
	9/11/2018	11.1	5.85	5.22	199.3	0.063
	12/12/2018	8.4	5.96	4.80	373.4	0.082

Table 5
2018 Stabilized Groundwater Field Parameter Values
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Temperature (degrees Celsius)	pH (Standard Units)	Dissolved Oxygen (milligrams per liter)	Oxidation-Reduction Potential (millivolts)	Specific Conductivity (mS/cm)
1C-W-3	3/27/2018	5.7	5.75	9.16	207.5	0.047
	9/11/2018	11.5	6.17	1.37	214.3	0.109
1C-W-4	3/27/2018	6.4	6.06	6.70	160.2	0.073
	9/11/2018	9.8	5.92	4.22	-1.1	0.065
MW-16	3/28/2018	5.8	5.60	8.90	207.5	0.045
	9/12/2018	10.9	5.98	2.75	-30.2	0.067
MW-38R	3/28/2018	7.6	6.24	0.93	164.0	0.091
	9/12/2018	9.8	6.12	2.21	107.5	0.088

NOTE:

IE = instrument error

mS/cm = milliSiemens per centimeter

Table 6
2018 Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Sample Identification	DRO (µg/l) ¹			ORO (µg/l) ¹			Calculated NWTPH-Dx ² (µg/l)
			Result	MDL	MRL	Result	MDL	MRL	
Levee Zone Monitoring Wells									
5-W-14	3/28/2018	5-W-14-032818	< 62	62	62	< 92	92	92	< 77
	6/19/2018	5-W-14--061918	< 62	62	62	< 91	91	91	< 77
	9/12/2018	5-W-14-091218	< 61	61	61	< 91	91	91	< 76
	12/12/2018	5-W-14-121218	< 62	62	62	< 91	91	91	< 77
5-W-15	3/28/2018	5-W-15-032818	< 62	62	62	< 92	92	92	< 77
	6/19/2018	5-W-15-061918	< 62	62	62	< 91	91	91	< 77
Decommissioned Summer 2018									
5-W-16	3/27/2018	5-W-16-032718	< 62	62	62	< 92	92	92	< 77
	6/19/2018	5-W-16-061918	< 62	62	62	< 91	91	91	< 77
	9/11/2018	5-W-16-091118	120	62	62	< 91	91	91	166
	12/12/2018	5-W-16-121218	< 62	62	62	< 91	91	91	< 77
5-W-17	3/27/2018	5-W-17-032718	< 62	62	62	< 91	91	91	< 77
	6/19/2018	5-W-17-061918	< 62	62	62	< 91	91	91	< 77
	9/11/2018	5-W-17-091118	< 62	62	62	< 91	91	91	< 77
	12/12/2018	5-W-17-121218	< 62	62	62	< 91	91	91	< 77
5-W-18	3/27/2018	5-W-18-032718	< 62	62	62	< 92	92	92	< 77
	6/19/2018	5-W-18-061918	< 63	63	63	< 93	93	93	< 78
	9/11/2018	5-W-18-091118	< 62	62	62	< 91	91	91	< 77
	12/11/2018	5-W-18-121118	< 61	61	61	< 91	91	91	< 76
5-W-19	3/27/2018	5-W-19-032718	< 62	62	62	< 92	92	92	< 77
	6/19/2018	5-W-19-061918	< 63	63	63	< 92	92	92	< 78
	9/11/2018	5-W-19-091118	< 62	62	62	< 92	92	92	< 77
	12/11/2018	5-W-19-121118	< 61	61	61	< 90	90	90	< 76

Table 6
2018 Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Sample Identification	DRO (µg/l) ¹			ORO (µg/l) ¹			Calculated NWTPH-Dx ² (µg/l)
			Result	MDL	MRL	Result	MDL	MRL	
Schoolyard Monitoring Wells									
5-W-51	3/27/2018	5-W-51-032718	2,100	190	190	1,100	270	270	3,200
	9/12/2018	5-W-51-091218	660	62	62	600	91	91	1,260
	12/12/2018	5-W-51-121218	1,000	62	62	1,600	91	91	2,600
5-W-54	3/27/2018	5-W-54-032718	< 62	62	62	< 92	92	92	< 77
	Decommissioned Summer 2018								
5-W-55	3/27/2018	5-W-55-032718	82	62	62	100	91	91	182
	9/11/2018	5-W-55-091118	< 62	62	62	< 91	91	91	< 77
	12/11/2018	5-W-55-121118	91	61	61	< 90	90	90	136
5-W-56	3/27/2018	5-W-56-032718	1,100	62	62	610	91	91	1,710
	9/11/2018	5-W-56-091118	670	62	62	620	91	91	1,290
	12/11/2018	5-W-56-121118	950	61	61	1,400	91	91	2,350
Hydraulic Control and Containment System Sentry Wells and Monitoring Wells									
S1-AD	3/26/2018	S1-AD-032618	< 62	62	62	< 91	91	91	< 77
	9/10/2018	S1-AD-091018	< 62	62	62	< 91	91	91	< 77
	12/12/2018	S1-AD-121218	< 62	62	62	< 91	91	91	< 77
S1-AU	3/26/2018	S1-AU-032618	< 62	62	62	< 92	92	92	< 77
	9/10/2018	S1-AU-091018	< 62	62	62	< 91	91	91	< 77
	12/12/2018	S1-AU-121218	< 62	62	62	< 91	91	91	< 77
S1-BD	3/26/2018	S1-BD-032618	< 62	62	62	< 91	91	91	< 77
	9/10/2018	S1-BD-091018	< 62	62	62	< 92	92	92	< 77
	12/12/2018	S1-BD-121218	< 62	62	62	< 91	91	91	< 77
S1-BU	3/26/2018	S1-BU-032618	< 62	62	62	< 91	91	91	< 77
	9/10/2018	S1-BU-091018	< 62	62	62	< 92	92	92	< 77
	12/12/2018	S1-BU-121218	< 62	62	62	< 92	92	92	< 77
S2-AD	3/26/2018	S2-AD-032618	< 62	62	62	< 91	91	91	< 77
	9/10/2018	S2-AD-091018	< 62	62	62	< 92	92	92	< 77
	12/12/2018	S2-AD-121218	< 62	62	62	< 92	92	92	< 77

Table 6
2018 Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Sample Identification	DRO (µg/l) ¹			ORO (µg/l) ¹			Calculated NWTPH-Dx ² (µg/l)
			Result	MDL	MRL	Result	MDL	MRL	
S2-AU	3/26/2018	S2-AU-032618	< 62	62	62	< 91	91	91	< 77
	9/10/2018	S2-AU-091018	< 62	62	62	< 92	92	92	< 77
	12/12/2018	S2-AU-121218	< 62	62	62	< 91	91	91	< 77
S2-BD	3/26/2018	S2-BD-032618	< 63	63	63	< 93	93	93	< 78
	9/10/2018	S2-BD-091018	420	62	62	140	91	91	560
	10/2/2018	S2-BD-100218 ⁴	< 62	62	62	< 91	91	91	< 77
	12/12/2018	S2-BD-121218	< 62	62	62	< 92	92	92	< 77
S2-BU	3/26/2018	S2-BU-032618	< 63	63	63	650 J	93	93	682 J
	9/10/2018	S2-BU-091018	< 62	62	62	< 91	91	91	< 77
	10/2/2018	S2-BU-100218 ⁴	< 62	62	62	< 91	91	91	< 77
	12/12/2018	S2-BU-121218	< 62	62	62	< 91	91	91	< 77
S3-AD	3/26/2018	S3-AD-032618	< 63	63	63	< 93	93	93	< 78
	9/11/2018	S3-AD-091118	< 62	62	62	< 91	91	91	< 77
	12/13/2018	S3-AD-121318	< 61	61	61	< 91	91	91	< 76
S3-AU	3/26/2018	S3-AU-032618	< 62	62	62	< 92	92	92	< 77
	9/11/2018	S3-AU-091118	< 62	62	62	< 91	91	91	< 77
	12/13/2018	S3-AU-121318	< 62	62	62	< 91	91	91	< 77
S3-BD	3/26/2018	S3-BD-032618	< 62	62	62	210 J	92	92	241 J
	9/11/2018	S3-BD-091118	< 62	62	62	< 92	92	92	< 77
	12/13/2018	S3-BD-121318	< 61	61	61	< 91	91	91	< 76
S3-BU	3/26/2018	S3-BU-032618	< 62	62	62	< 91	91	91	< 77
	9/11/2018	S3-BU-091118	< 62	62	62	< 91	91	91	< 77
	12/13/2018	S3-BU-121318	< 62	62	62	< 91	91	91	< 77
S3-CD	3/26/2018	S3-CD-032618	< 62	62	62	< 92	92	92	< 77
	9/11/2018	S3-CD-091118	< 62	62	62	< 91	91	91	< 77
	12/13/2018	S3-CD-121318	< 61	61	61	< 91	91	91	< 76
S3-CU	3/26/2018	S3-CU-032618	< 62	62	62	< 91	91	91	< 77
	9/11/2018	S3-CU-091118	< 62	62	62	< 91	91	91	< 77
	12/13/2018	S3-CU-121318	62	62	62	< 91	91	91	108

Table 6
2018 Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Sample Identification	DRO (µg/l) ¹			ORO (µg/l) ¹			Calculated NWTPH-Dx ² (µg/l)
			Result	MDL	MRL	Result	MDL	MRL	
S4-AD	3/27/2018	S4-AD-032718	< 62	62	62	< 92	92	92	< 77
	9/11/2018	S4-AD-091118	< 62	62	62	< 91	91	91	< 77
	12/13/2018	S4-AD-121318	< 62	62	62	< 91	91	91	< 77
S4-AU	3/27/2018	S4-AU-032718	< 62	62	62	< 92	92	92	< 77
	9/11/2018	S4-AU-091118	< 62	62	62	< 91	91	91	< 77
	12/13/2018	S4-AU-121318	< 62	62	62	< 91	91	91	< 77
S4-BD	3/27/2018	S4-BD-032718	< 62	62	62	< 92	92	92	< 77
	9/11/2018	S4-BD-091118	< 62	62	62	< 91	91	91	< 77
	12/13/2018	S4-BD-121318	< 61	61	61	< 91	91	91	< 76
S4-BU	3/27/2018	S4-BU-032718	< 62	62	62	120 J	91	91	151 J
	9/11/2018	S4-BU-091118	< 62	62	62	< 91	91	91	< 77
	12/13/2018	S4-BU-121318	< 62	62	62	< 92	92	92	< 77
S4-CD	3/27/2018	S4-CD-032718	< 62	62	62	< 91	91	91	< 77
	9/11/2018	S4-CD-091118	< 62	62	62	< 91	91	91	< 77
	12/13/2018	S4-CD-121318	< 61	61	61	< 91	91	91	< 76
S4-CU	3/27/2018	S4-CU-032718	< 62	62	62	< 91	91	91	< 77
	9/11/2018	S4-CU-091118	180	62	62	< 91	91	91	226
	12/13/2018	S4-CU-121318	< 62	62	62	< 91	91	91	< 77
GW-1	3/28/2018	GW-1-032818	< 62	62	62	< 92	92	92	< 77
	6/19/2018	GW-1-061918	< 62	62	62	< 91	91	91	< 77
	9/12/2018	GW-1-091218	< 62	62	62	< 91	91	91	< 77
	12/11/2018	GW-1-121118	< 62	62	62	< 92	92	92	< 77
GW-2	3/28/2018	GW-2-032818	< 62	62	62	< 91	91	91	< 77
	6/19/2018	GW-2-061918	< 61	61	61	< 91	91	91	< 76
	9/12/2018	GW-2-091218	< 62	62	62	< 91	91	91	< 77
	12/11/2018	GW-2-121118	130 J	62	62	270 J	91	91	400 J

Table 6
2018 Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Sample Identification	DRO (µg/l) ¹			ORO (µg/l) ¹			Calculated NWTPH-Dx ² (µg/l)
			Result	MDL	MRL	Result	MDL	MRL	
GW-3	3/28/2018	GW-3-032818	130	62	62	< 92	92	92	176
			< 62 ³	62	62	< 92 ³	92	92	< 77 ³
	6/20/2018	GW-3-062018	420	62	62	180	91	91	600
			140 ³	62	62	< 91 ³	91	91	186 ³
9/12/2018	GW-3-091218	260	62	62	140	91	91	400	
		< 62 ³	62	62	< 91 ³	91	91	< 77 ³	
12/11/2018	GW-3-121118	280	61	61	120	91	91	400	
		130 ³ J	61	61	< 91 ³ J	91	91	176 ³ J	
GW-4	3/27/2018	GW-4-032718	< 63	63	63	< 92	92	92	< 78
	6/20/2018	GW-4-062018	< 62	62	62	< 91	91	91	< 77
	9/11/2018	GW-4-091118	< 61	61	61	< 91	91	91	< 76
	12/11/2018	GW-4-121118	< 62	62	62	< 91	91	91	< 77
EW-1	3/27/2018	EW-1-032718	< 62	62	62	< 91	91	91	< 77
	6/19/2018	EW-1-061918	< 62	62	62	< 91	91	91	< 77
	9/12/2018	EW-1-091218	< 61	61	61	< 91	91	91	< 76
	12/12/2018	EW-1-121218	< 62	62	62	< 91	91	91	< 77
EW-2A	3/27/2018	EW-2A-032718	< 62	62	62	< 92	92	92	< 77
	6/20/2018	EW-2A-062018	< 62	62	62	< 91	91	91	< 77
	9/11/2018	EW-2A-091118	< 62	62	62	< 91	91	91	< 77
	12/11/2018	EW-2A-121118	71	62	62	< 91	91	91	117
5-W-43	3/27/2018	5-W-43-032718	< 62	62	62	< 91	91	91	< 77
	6/19/2018	5-W-43-061918	< 61	61	61	< 91	91	91	< 76
	9/12/2018	5-W-43-091218	< 62	62	62	< 91	91	91	< 77
	12/11/2018	5-W-43-121118	< 61	61	61	< 90	90	90	< 76
2A-W-40	3/28/2018	2A-W-40-032818	< 62	62	62	< 92	92	92	< 77
	6/19/2018	2A-W-40-061918	< 62	62	62	< 92	92	92	< 77
	9/12/2018	2A-W-40-091218	< 62	62	62	< 91	91	91	< 77
	12/11/2018	2A-W-40-121118	79	62	62	95	92	92	174

Table 6
2018 Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Sample Identification	DRO (µg/l) ¹			ORO (µg/l) ¹			Calculated NWTPH-Dx ² (µg/l)
			Result	MDL	MRL	Result	MDL	MRL	
2A-W-41	3/28/2018	2A-W-41-032818	280	62	62	160	92	92	440
			290 ³	62	62	150 ³	92	92	440 ³
	6/20/2018	2A-W-41-062018	130	62	62	< 91	91	91	176
			< 62 ³	62	62	< 91 ³	91	91	< 77 ³
9/12/2018	2A-W-41-091218	460	62	62	210	91	91	670	
		120 ³	62	62	< 91 ³	91	91	166 ³	
12/12/2018	2A-W-41-121218	210	61	61	230	91	91	440	
		< 61 ³	61	61	< 91 ³	91	91	< 76 ³	
1B-W-23	3/28/2018	1B-W-23-032818	< 62	62	62	< 92	92	92	< 77
	6/20/2018	1B-W-23-062018	< 62	62	62	< 92	92	92	< 77
	9/12/2018	1B-W-23-091218	70	62	62	120	91	91	190
	12/11/2018	1B-W-23-121118	< 62	62	62	< 92	92	92	< 77
2A-W-42	3/28/2018	2A-W-42-032818	110	62	62	< 92	92	92	156
	6/20/2018	2A-W-42-062018	100	62	62	< 91	91	91	146
	9/11/2018	2A-W-42-091118	< 62	62	62	< 91	91	91	< 77
	12/11/2018	2A-W-42-121118	170	61	61	110	91	91	280
Former Air Sparge Area Monitoring Wells									
1B-W-3	3/28/2018	1B-W-3-032818	< 62	62	62	< 92	92	92	< 77
	6/20/2018	1B-W-3-062018	< 62	62	62	< 91	91	91	< 77
	9/12/2018	1B-W-3-091218	< 62	62	62	< 91	91	91	< 77
	12/12/2018	1B-W-3-121218	< 62	62	62	< 91	91	91	< 77
1C-W-7	3/28/2018	1C-W-7-032818	130	62	62	< 92	92	92	176
	6/20/2018	1C-W-7-062018	77	62	62	< 91	91	91	123
	9/11/2018	1C-W-7-091118	< 62	62	62	< 91	91	91	< 77
	12/11/2018	1C-W-7-121118	150	62	62	110	91	91	260
1C-W-8	3/27/2018	1C-W-8-032718	< 62	62	62	< 92	92	92	< 77
	6/20/2018	1C-W-8-062018	< 62	62	62	< 91	91	91	< 77
	9/11/2018	1C-W-8-091118	< 61	61	61	< 91	91	91	< 76
	12/12/2018	1C-W-8-121218	140	61	61	190	91	91	330

Table 6
2018 Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Sample Identification	DRO (µg/l) ¹			ORO (µg/l) ¹			Calculated NWTPH-Dx ² (µg/l)
			Result	MDL	MRL	Result	MDL	MRL	
Former Maloney Creek Zone Monitoring Wells									
MW-3	3/27/2018	MW-3-032718	330	62	62	390	92	92	720
	6/19/2018	MW-3-061918	760	62	62	1,100	91	91	1,860
	9/12/2018	MW-3-091218	63 < 62 ³	62	62	< 91 < 91 ³	91	91	109 < 77 ³
	12/11/2018	MW-3-121118	870	61	61	2,300	91	91	3,170
MW-4	3/27/2018	MW-4-032718	89	62	62	150	92	92	239
	6/19/2018	MW-4-061918	88	62	62	< 92	92	92	134
	9/12/2018	MW-4-091218	< 62	62	62	< 91	91	91	< 77
	12/11/2018	MW-4-121118	99	62	62	120	91	91	219
2A-W-9	3/27/2018	2A-W-9-032718	360	62	62	130	92	92	490
	6/19/2018	2A-W-9-061918	71	62	62	< 91	91	91	117
	9/12/2018	2A-W-9-091218	100	62	62	< 91	91	91	146
	12/11/2018	2A-W-9-121118	290	62	62	380	91	91	670
2A-W-10	3/27/2018	2A-W-10-032718	70	62	62	140	92	92	210
	6/19/2018	2A-W-10-061918	72	64	64	220	94	94	292
	9/12/2018	2A-W-10-091218	75	62	62	190	91	91	265
	12/11/2018	2A-W-10-121118	130	62	62	250	91	91	380
2B-W-4	3/28/2018	2B-W-4-032818	< 62	62	62	< 92	92	92	< 77
	6/19/2018	2B-W-4-061918	< 62	62	62	< 92	92	92	< 77
	9/12/2018	2B-W-4-091218	< 62	62	62	< 91	91	91	< 77
	12/12/2018	2B-W-4-121218	< 62	62	62	< 91	91	91	< 77
Site-Wide Monitoring Wells									
1A-W-4	3/28/2018	1A-W-4-032818	< 62	62	62	< 92	92	92	< 77
	9/12/2018	1A-W-4-091218	< 62	62	62	< 91	91	91	< 77
1B-W-2	3/28/2018	1B-W-2-032818	< 62	62	62	< 92	92	92	< 77
	9/12/2018	1B-W-2-091218	< 64	64	64	< 95	95	95	< 80

Table 6
2018 Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067

Well	Date	Sample Identification	DRO (µg/l) ¹			ORO (µg/l) ¹			Calculated NWTPH-Dx ² (µg/l)
			Result	MDL	MRL	Result	MDL	MRL	
1C-W-1	3/27/2018	1C-W-1-032718	< 62	62	62	< 92	92	92	< 77
	6/20/2018	1C-W-1-062018	< 62	62	62	< 92	92	92	< 77
	9/11/2018	1C-W-1-091118	< 62	62	62	< 91	91	91	< 77
	12/12/2018	1C-W-1-121218	74	62	62	< 91	91	91	120
1C-W-3	3/27/2018	1C-W-3-032718	< 63	63	63	< 92	92	92	< 78
	9/11/2018	1C-W-3-091118	< 62	62	62	< 91	91	91	< 77
1C-W-4	3/27/2018	1C-W-4-032718	96	62	62	< 92	92	92	142
	9/11/2018	1C-W-4-091118	< 62	62	62	< 91	91	91	< 77
MW-16	3/28/2018	MW-16-032818	< 63	63	63	< 92	92	92	< 78
	9/12/2018	MW-16-091218	< 62	62	62	< 91	91	91	< 77
MW-38R	3/28/2018	MW-38R-032818	< 62	62	62	100	92	92	131
	9/12/2018	MW-38R-091218	< 62	62	62	< 91	91	91	< 77

NOTES:

Results in **bold** denote concentrations exceeding the 208 µg/l NWTPH-Dx cleanup level (Levee Zone wells) or the 477 µg/l NWTPH-Dx remediation level (wells outside the Levee Zone and between the BNSF railyard and the Skykomish River).

< denotes analyte not detected at or exceeding the reported concentration.

¹Analyzed by Washington State Department of Ecology (Ecology) Method NWTPH-Dx without silica gel cleanup unless otherwise noted.

²Sum of DRO and ORO, using half the MDL for non-detect results.

³Sample analyzed by Ecology Method NWTPH-Dx with silica gel cleanup.

⁴Sample collected for follow-up analysis due to elevated NWTPH-Dx concentration reported in the September 2018 sample collected from well S2-BD.

DRO = total petroleum hydrocarbons as diesel-range organics

J = reported concentration is an estimated value

MDL = method detection limit

MRL = method reporting limit

µg/l = micrograms per liter

ORO = total petroleum hydrocarbons as oil-range organics

**APPENDIX A
LABORATORY ANALYTICAL REPORTS
(PROVIDED ON COMPACT DISC IN PRINTED REPORT)**

2018 SITE-WIDE GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-067

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

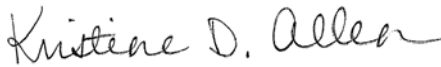
TestAmerica Job ID: 580-76198-1

Client Project/Site: Skykomish Semi-Annual
Sampling Event: Skykomish HCC System
Revision: 3

For:

Farallon Consulting LLC
1809 7th Ave. Suite 1111
Seattle, Washington 98101

Attn: Rob Leet



Authorized for release by:
7/27/2018 2:25:25 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

LINKS

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results through
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Have a Question?



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	5
Client Sample Results	6
QC Sample Results	69
Chronicle	74
Certification Summary	85
Sample Summary	86
Chain of Custody	88
Receipt Checklists	94

Case Narrative

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Job ID: 580-76198-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative 580-76198-1

Comments

Report revised to set the reporting limit set at the Method Detection Limit at client request.

No additional comments.

Receipt

The samples were received on 3/29/2018 2:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were -0.2° C, -0.2° C, 0.0° C, 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.3° C, 0.5° C, 0.8° C and 3.1° C.

GC Semi VOA

Method(s) NWTPH-Dx: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 580-270677 and analytical batch 580-270923 recovered outside control limits for the following analytes: #2 Diesel (C10-C24) and Motor Oil (>C24-C36). The individual recoveries of both the LCS and LCSD met the acceptance criteria.

Method(s) NWTPH-Dx: The continuing calibration verification (CCV) standard associated with batch 580-270910 recovered outside %Drift acceptance criteria for o-Terphenyl surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples; therefore, the data are qualified and reported. (CCV 580-270910/14) and (CCV 580-270910/25)

Method(s) NWTPH-Dx: The continuing calibration verification (CCV) associated with batch 580-270910 recovered above the upper control limit for #2 Diesel (C10-C24) and Motor Oil (>C24-C36). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 5-W-19-032718 (580-76198-28), 5-W-18-032718 (580-76198-29), EW-2A-032718 (580-76198-30), GW-4-032718 (580-76198-31), 5-W-54-032718 (580-76198-33), 1C-W-1-032718 (580-76198-34), 1C-W-8-032718 (580-76198-35), 1C-W-3-032718 (580-76198-36) and (CCV 580-270910/25).

Method(s) NWTPH-Dx: Continuing calibration verification (CCV) standard associated with batch 580-271123 recovered outside %Drift acceptance criteria for o-Terphenyl surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples; therefore, the data are qualified and reported. 5-W-51-032718 (580-76198-43), GW-1-032818 (580-76198-55), GW-2-032818 (580-76198-56), GW-20-032818 (580-76198-57), (CCV 580-271123/44) and (CCV 580-271123/47)

Method(s) NWTPH-Dx: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 580-270942 and analytical batch 580-271469 recovered outside control limits for the following analytes: #2 Diesel (C10-C24) and Motor Oil (>C24-C36). The individual recoveries of both the LCS and LCSD met the acceptance criteria.

Method(s) NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: S2-BU-032618 (580-76198-7), S3-BD-032618 (580-76198-11) and S4-BU-032718 (580-76198-19).

Method(s) NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: MW-3-032718 (580-76198-21), MW-4-032718 (580-76198-22), MW-30-032718 (580-76198-23), 2A-W-10-032718 (580-76198-24) and 2A-W-9-032718 (580-76198-25).

Method(s) NWTPH-Dx: The peak profile present in this sample 5-W-56-032718 (580-76198-42) is atypical of a hydrocarbon pattern and consists of discrete peaks.

Method(s) NWTPH-Dx: The following sample was diluted to bring the concentration of target analytes within the calibration range: 5-W-51-032718 (580-76198-43). Elevated reporting limits (RLs) are provided.

Method(s) NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: 1C-W-7-032818 (580-76198-44), 2A-W-42-032818 (580-76198-45), GW-3-032818 (580-76198-49) and GW-30-032818 (580-76198-50).

Case Narrative

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Job ID: 580-76198-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

Method(s) NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: 2A-W-41-032818 (580-76198-59) and 2A-W-410-032818 (580-76198-60).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Definitions/Glossary

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S1-BD-032618

Lab Sample ID: 580-76198-1

Date Collected: 03/26/18 14:22

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 14:24	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		04/05/18 09:24	04/09/18 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		50 - 150				04/05/18 09:24	04/09/18 14:24	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S1-BU-032618

Lab Sample ID: 580-76198-2

Date Collected: 03/26/18 14:23

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 14:53	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		04/05/18 09:24	04/09/18 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		50 - 150				04/05/18 09:24	04/09/18 14:53	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S1-AU-032618

Lab Sample ID: 580-76198-3

Date Collected: 03/26/18 14:26

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 15:23	1
Motor Oil (>C24-C36)	ND	*	0.092	0.092	mg/L		04/05/18 09:24	04/09/18 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		50 - 150				04/05/18 09:24	04/09/18 15:23	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S1-AD-032618

Lab Sample ID: 580-76198-4

Date Collected: 03/26/18 14:26

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 15:53	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		04/05/18 09:24	04/09/18 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		50 - 150				04/05/18 09:24	04/09/18 15:53	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S2-AD-032618

Lab Sample ID: 580-76198-5

Date Collected: 03/26/18 15:11

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 16:22	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		04/05/18 09:24	04/09/18 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		50 - 150				04/05/18 09:24	04/09/18 16:22	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S2-AU-032618

Lab Sample ID: 580-76198-6

Date Collected: 03/26/18 15:12

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 16:52	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		04/05/18 09:24	04/09/18 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		50 - 150				04/05/18 09:24	04/09/18 16:52	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S2-BU-032618

Lab Sample ID: 580-76198-7

Date Collected: 03/26/18 15:16

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.063	0.063	mg/L		04/05/18 09:24	04/09/18 17:22	1
Motor Oil (>C24-C36)	0.65	*	0.093	0.093	mg/L		04/05/18 09:24	04/09/18 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	60		50 - 150				04/05/18 09:24	04/09/18 17:22	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S2-BD-032618

Lab Sample ID: 580-76198-8

Date Collected: 03/26/18 15:16

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.063	0.063	mg/L		04/05/18 09:24	04/09/18 18:20	1
Motor Oil (>C24-C36)	ND	*	0.093	0.093	mg/L		04/05/18 09:24	04/09/18 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		50 - 150				04/05/18 09:24	04/09/18 18:20	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S3-AD-032618

Lab Sample ID: 580-76198-9

Date Collected: 03/26/18 16:17

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.063	0.063	mg/L		04/05/18 09:24	04/09/18 18:49	1
Motor Oil (>C24-C36)	ND	*	0.093	0.093	mg/L		04/05/18 09:24	04/09/18 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	50		50 - 150				04/05/18 09:24	04/09/18 18:49	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S3-AU-032618

Lab Sample ID: 580-76198-10

Date Collected: 03/26/18 16:17

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 19:18	1
Motor Oil (>C24-C36)	ND	*	0.092	0.092	mg/L		04/05/18 09:24	04/09/18 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		50 - 150				04/05/18 09:24	04/09/18 19:18	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S3-BD-032618

Lab Sample ID: 580-76198-11

Date Collected: 03/26/18 16:20

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 19:47	1
Motor Oil (>C24-C36)	0.21	*	0.092	0.092	mg/L		04/05/18 09:24	04/09/18 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		50 - 150				04/05/18 09:24	04/09/18 19:47	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S3-BU-032618

Lab Sample ID: 580-76198-12

Date Collected: 03/26/18 16:19

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 20:15	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		04/05/18 09:24	04/09/18 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		50 - 150				04/05/18 09:24	04/09/18 20:15	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S3-CD-032618

Lab Sample ID: 580-76198-13

Date Collected: 03/26/18 17:01

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 20:43	1
Motor Oil (>C24-C36)	ND	*	0.092	0.092	mg/L		04/05/18 09:24	04/09/18 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		50 - 150				04/05/18 09:24	04/09/18 20:43	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S3-CU-032618

Lab Sample ID: 580-76198-14

Date Collected: 03/26/18 17:02

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 21:11	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		04/05/18 09:24	04/09/18 21:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		50 - 150				04/05/18 09:24	04/09/18 21:11	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S4-AD-032718

Lab Sample ID: 580-76198-15

Date Collected: 03/27/18 09:05

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 21:40	1
Motor Oil (>C24-C36)	ND	*	0.092	0.092	mg/L		04/05/18 09:24	04/09/18 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	55		50 - 150				04/05/18 09:24	04/09/18 21:40	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S4-AU-032718

Lab Sample ID: 580-76198-16

Date Collected: 03/27/18 09:10

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 22:08	1
Motor Oil (>C24-C36)	ND	*	0.092	0.092	mg/L		04/05/18 09:24	04/09/18 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		50 - 150				04/05/18 09:24	04/09/18 22:08	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S4-CU-032718

Lab Sample ID: 580-76198-17

Date Collected: 03/27/18 09:05

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 22:36	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		04/05/18 09:24	04/09/18 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		50 - 150				04/05/18 09:24	04/09/18 22:36	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S4-CD-032718

Lab Sample ID: 580-76198-18

Date Collected: 03/27/18 09:08

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/09/18 23:32	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		04/05/18 09:24	04/09/18 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		50 - 150				04/05/18 09:24	04/09/18 23:32	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S4-BU-032718

Lab Sample ID: 580-76198-19

Date Collected: 03/27/18 09:45

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/10/18 00:00	1
Motor Oil (>C24-C36)	0.12	*	0.091	0.091	mg/L		04/05/18 09:24	04/10/18 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	72		50 - 150				04/05/18 09:24	04/10/18 00:00	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S4-BD-032718

Lab Sample ID: 580-76198-20

Date Collected: 03/27/18 09:47

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/05/18 09:24	04/10/18 00:28	1
Motor Oil (>C24-C36)	ND	*	0.092	0.092	mg/L		04/05/18 09:24	04/10/18 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		50 - 150				04/05/18 09:24	04/10/18 00:28	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: MW-3-032718

Lab Sample ID: 580-76198-21

Date Collected: 03/27/18 10:25

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.33		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 18:23	1
Motor Oil (>C24-C36)	0.39		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		50 - 150				04/06/18 13:47	04/09/18 18:23	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: MW-4-032718

Lab Sample ID: 580-76198-22

Date Collected: 03/27/18 10:25

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.089		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 18:45	1
Motor Oil (>C24-C36)	0.15		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		50 - 150				04/06/18 13:47	04/09/18 18:45	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: MW-30-032718

Lab Sample ID: 580-76198-23

Date Collected: 03/27/18 10:30

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.28		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 19:08	1
Motor Oil (>C24-C36)	0.37		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		50 - 150				04/06/18 13:47	04/09/18 19:08	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 2A-W-10-032718

Lab Sample ID: 580-76198-24

Date Collected: 03/27/18 12:05

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.070		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 19:30	1
Motor Oil (>C24-C36)	0.14		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		50 - 150				04/06/18 13:47	04/09/18 19:30	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 2A-W-9-032718

Lab Sample ID: 580-76198-25

Date Collected: 03/27/18 12:10

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.36		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 19:53	1
Motor Oil (>C24-C36)	0.13		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		50 - 150				04/06/18 13:47	04/09/18 19:53	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-17-032718

Lab Sample ID: 580-76198-26

Date Collected: 03/27/18 12:20

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 20:15	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		04/06/18 13:47	04/09/18 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		50 - 150				04/06/18 13:47	04/09/18 20:15	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-16-032718

Lab Sample ID: 580-76198-27

Date Collected: 03/27/18 12:21

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 20:37	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		50 - 150				04/06/18 13:47	04/09/18 20:37	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-19-032718

Lab Sample ID: 580-76198-28

Date Collected: 03/27/18 11:02

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 21:22	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		50 - 150				04/06/18 13:47	04/09/18 21:22	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-18-032718

Lab Sample ID: 580-76198-29

Date Collected: 03/27/18 11:05

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 21:44	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 21:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		50 - 150				04/06/18 13:47	04/09/18 21:44	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: EW-2A-032718

Lab Sample ID: 580-76198-30

Date Collected: 03/27/18 13:25

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 22:06	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		50 - 150				04/06/18 13:47	04/09/18 22:06	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: GW-4-032718

Lab Sample ID: 580-76198-31

Date Collected: 03/27/18 13:25

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063	0.063	mg/L		04/06/18 13:47	04/09/18 22:28	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		50 - 150				04/06/18 13:47	04/09/18 22:28	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-55-032718

Lab Sample ID: 580-76198-32

Date Collected: 03/27/18 13:40

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.082		0.062	0.062	mg/L		04/06/18 13:47	04/10/18 11:42	1
Motor Oil (>C24-C36)	0.10		0.091	0.091	mg/L		04/06/18 13:47	04/10/18 11:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		50 - 150				04/06/18 13:47	04/10/18 11:42	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-54-032718

Lab Sample ID: 580-76198-33

Date Collected: 03/27/18 13:26

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 23:12	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		50 - 150				04/06/18 13:47	04/09/18 23:12	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 1C-W-1-032718

Lab Sample ID: 580-76198-34

Date Collected: 03/27/18 15:15

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 23:34	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 23:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		50 - 150				04/06/18 13:47	04/09/18 23:34	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 1C-W-8-032718

Lab Sample ID: 580-76198-35

Date Collected: 03/27/18 15:23

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/18 13:47	04/09/18 23:57	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/18 13:47	04/09/18 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		50 - 150				04/06/18 13:47	04/09/18 23:57	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 1C-W-3-032718

Lab Sample ID: 580-76198-36

Date Collected: 03/27/18 16:10

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063	0.063	mg/L		04/06/18 13:47	04/10/18 00:19	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/18 13:47	04/10/18 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		50 - 150				04/06/18 13:47	04/10/18 00:19	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 1C-W-4-032718

Lab Sample ID: 580-76198-37

Date Collected: 03/27/18 16:17

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.096		0.062	0.062	mg/L		04/06/18 13:47	04/10/18 12:11	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/18 13:47	04/10/18 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	72		50 - 150				04/06/18 13:47	04/10/18 12:11	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-43-032718

Lab Sample ID: 580-76198-38

Date Collected: 03/27/18 15:25

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/11/18 23:52	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		04/09/18 13:36	04/11/18 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		50 - 150				04/09/18 13:36	04/11/18 23:52	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: EW-1-032718

Lab Sample ID: 580-76198-39

Date Collected: 03/27/18 15:26

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 00:20	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		04/09/18 13:36	04/12/18 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		50 - 150				04/09/18 13:36	04/12/18 00:20	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: EW-10-032718

Lab Sample ID: 580-76198-40

Date Collected: 03/27/18 15:32

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 00:47	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		04/09/18 13:36	04/12/18 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	55		50 - 150				04/09/18 13:36	04/12/18 00:47	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: MW-555-032718

Lab Sample ID: 580-76198-41

Date Collected: 03/27/18 17:00

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 01:14	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	54		50 - 150				04/09/18 13:36	04/12/18 01:14	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-56-032718

Lab Sample ID: 580-76198-42

Date Collected: 03/27/18 16:55

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	1.1		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 01:41	1
Motor Oil (>C24-C36)	0.61		0.091	0.091	mg/L		04/09/18 13:36	04/12/18 01:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		50 - 150				04/09/18 13:36	04/12/18 01:41	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-51-032718

Lab Sample ID: 580-76198-43

Date Collected: 03/27/18 17:01

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	2.1		0.19	0.19	mg/L		04/09/18 13:36	04/12/18 12:24	3
Motor Oil (>C24-C36)	1.1		0.27	0.27	mg/L		04/09/18 13:36	04/12/18 12:24	3
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		50 - 150				04/09/18 13:36	04/12/18 12:24	3

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 1C-W-7-032818

Lab Sample ID: 580-76198-44

Date Collected: 03/28/18 09:10

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.13		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 02:36	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 02:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		50 - 150				04/09/18 13:36	04/12/18 02:36	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 2A-W-42-032818

Lab Sample ID: 580-76198-45

Date Collected: 03/28/18 09:18

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.11		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 03:57	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	62		50 - 150				04/09/18 13:36	04/12/18 03:57	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 1B-W-3-032818

Lab Sample ID: 580-76198-46

Date Collected: 03/28/18 10:15

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 04:27	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 04:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		50 - 150				04/09/18 13:36	04/12/18 04:27	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 1B-W-2-032818

Lab Sample ID: 580-76198-47

Date Collected: 03/28/18 10:15

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 04:56	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 04:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		50 - 150				04/09/18 13:36	04/12/18 04:56	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 1B-W-23-032818

Lab Sample ID: 580-76198-48

Date Collected: 03/28/18 11:25

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 05:23	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		50 - 150				04/09/18 13:36	04/12/18 05:23	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: GW-3-032818

Lab Sample ID: 580-76198-49

Date Collected: 03/28/18 11:25

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.13		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 05:53	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 05:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	57		50 - 150				04/09/18 13:36	04/12/18 05:53	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		04/09/18 13:36	04/16/18 12:59	1
Motor Oil (>C24-C36)	ND	*	0.092	0.092	mg/L		04/09/18 13:36	04/16/18 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	72		50 - 150				04/09/18 13:36	04/16/18 12:59	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: GW-30-032818

Lab Sample ID: 580-76198-50

Date Collected: 03/28/18 11:25

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.15		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 06:21	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 06:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		50 - 150				04/09/18 13:36	04/12/18 06:21	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-14-032818

Lab Sample ID: 580-76198-51

Date Collected: 03/28/18 09:11

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 06:49	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 06:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	52		50 - 150				04/09/18 13:36	04/12/18 06:49	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-15-032818

Lab Sample ID: 580-76198-52

Date Collected: 03/28/18 09:20

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 07:17	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 07:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	56		50 - 150				04/09/18 13:36	04/12/18 07:17	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-150-032818

Lab Sample ID: 580-76198-53

Date Collected: 03/28/18 09:25

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 07:46	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 07:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		50 - 150				04/09/18 13:36	04/12/18 07:46	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: MW-38R-032818

Lab Sample ID: 580-76198-54

Date Collected: 03/28/18 10:44

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 08:14	1
Motor Oil (>C24-C36)	0.10		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 08:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		50 - 150				04/09/18 13:36	04/12/18 08:14	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: GW-1-032818

Lab Sample ID: 580-76198-55

Date Collected: 03/28/18 10:30

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 09:37	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 09:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		50 - 150				04/09/18 13:36	04/12/18 09:37	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: GW-2-032818

Lab Sample ID: 580-76198-56

Date Collected: 03/28/18 11:25

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 10:05	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		04/09/18 13:36	04/12/18 10:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		50 - 150				04/09/18 13:36	04/12/18 10:05	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: GW-20-032818

Lab Sample ID: 580-76198-57

Date Collected: 03/28/18 11:30

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/09/18 13:36	04/12/18 10:32	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/09/18 13:36	04/12/18 10:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		50 - 150				04/09/18 13:36	04/12/18 10:32	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 2A-W-40-032818

Lab Sample ID: 580-76198-58

Date Collected: 03/28/18 11:48

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/10/18 13:41	04/16/18 12:59	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/10/18 13:41	04/16/18 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	71		50 - 150				04/10/18 13:41	04/16/18 12:59	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 2A-W-41-032818

Lab Sample ID: 580-76198-59

Date Collected: 03/28/18 12:45

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.28		0.062	0.062	mg/L		04/10/18 13:41	04/16/18 13:21	1
Motor Oil (>C24-C36)	0.16		0.092	0.092	mg/L		04/10/18 13:41	04/16/18 13:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		50 - 150				04/10/18 13:41	04/16/18 13:21	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.29		0.062	0.062	mg/L		04/10/18 13:41	04/11/18 18:47	1
Motor Oil (>C24-C36)	0.15		0.092	0.092	mg/L		04/10/18 13:41	04/11/18 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		50 - 150				04/10/18 13:41	04/11/18 18:47	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 2A-W-410-032818

Lab Sample ID: 580-76198-60

Date Collected: 03/28/18 12:52

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.15		0.062	0.062	mg/L		04/10/18 13:41	04/16/18 13:43	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/10/18 13:41	04/16/18 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	56		50 - 150				04/10/18 13:41	04/16/18 13:43	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 1A-W-4-032818

Lab Sample ID: 580-76198-61

Date Collected: 03/28/18 12:50

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/10/18 13:41	04/16/18 14:05	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/10/18 13:41	04/16/18 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	71		50 - 150				04/10/18 13:41	04/16/18 14:05	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 2B-W-4-032818

Lab Sample ID: 580-76198-62

Date Collected: 03/28/18 12:52

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/10/18 13:41	04/16/18 14:27	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/10/18 13:41	04/16/18 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		50 - 150				04/10/18 13:41	04/16/18 14:27	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: MW-16-032818

Lab Sample ID: 580-76198-63

Date Collected: 03/28/18 13:00

Matrix: Water

Date Received: 03/29/18 14:15

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063	0.063	mg/L		04/10/18 13:41	04/16/18 14:49	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/10/18 13:41	04/16/18 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		50 - 150				04/10/18 13:41	04/16/18 14:49	1

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QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-270677/1-A
Matrix: Water
Analysis Batch: 270923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		04/05/18 09:24	04/09/18 12:57	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		04/05/18 09:24	04/09/18 12:57	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	99		50 - 150				04/05/18 09:24	04/09/18 12:57	1

Lab Sample ID: LCS 580-270677/2-A
Matrix: Water
Analysis Batch: 270923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
#2 Diesel (C10-C24)	0.500	0.342		mg/L		68	59 - 112		
Motor Oil (>C24-C36)	0.500	0.389		mg/L		78	64 - 120		
Surrogate	%Recovery	LCS Qualifier	Limits						
<i>o</i> -Terphenyl	74		50 - 150						

Lab Sample ID: LCSD 580-270677/3-A
Matrix: Water
Analysis Batch: 270923

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 270677

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.430	*	mg/L		86	59 - 112	23	16
Motor Oil (>C24-C36)	0.500	0.487	*	mg/L		97	64 - 120	22	17
Surrogate	%Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	92		50 - 150						

Lab Sample ID: MB 580-270830/1-A
Matrix: Water
Analysis Batch: 270910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		04/06/18 13:47	04/09/18 17:15	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		04/06/18 13:47	04/09/18 17:15	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	68		50 - 150				04/06/18 13:47	04/09/18 17:15	1

Lab Sample ID: MB 580-270830/1-A
Matrix: Water
Analysis Batch: 270988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		04/06/18 13:47	04/10/18 11:14	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		04/06/18 13:47	04/10/18 11:14	1

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-270830/1-A
Matrix: Water
Analysis Batch: 270988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270830

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		50 - 150	04/06/18 13:47	04/10/18 11:14	1

Lab Sample ID: LCS 580-270830/2-A
Matrix: Water
Analysis Batch: 270910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.362		mg/L		72	59 - 112
Motor Oil (>C24-C36)	0.500	0.386		mg/L		77	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	65		50 - 150

Lab Sample ID: LCSD 580-270830/3-A
Matrix: Water
Analysis Batch: 270910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 270830

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.381		mg/L		76	59 - 112	5	16
Motor Oil (>C24-C36)	0.500	0.399		mg/L		80	64 - 120	3	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	73		50 - 150

Lab Sample ID: MB 580-270942/1-A
Matrix: Water
Analysis Batch: 271123

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		04/09/18 13:36	04/11/18 22:30	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		04/09/18 13:36	04/11/18 22:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		50 - 150	04/09/18 13:36	04/11/18 22:30	1

Lab Sample ID: LCS 580-270942/2-A
Matrix: Water
Analysis Batch: 271123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.391		mg/L		78	59 - 112
Motor Oil (>C24-C36)	0.500	0.384		mg/L		77	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	77		50 - 150

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-270942/3-A
Matrix: Water
Analysis Batch: 271123

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 270942

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.342		mg/L		68	59 - 112	13	16
Motor Oil (>C24-C36)	0.500	0.344		mg/L		69	64 - 120	11	17
		LCSD LCSD							
Surrogate	%Recovery	Qualifier	Limits						
<i>o</i> -Terphenyl	69		50 - 150						

Lab Sample ID: MB 580-271028/1-A
Matrix: Water
Analysis Batch: 271472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		04/10/18 13:41	04/16/18 11:54	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		04/10/18 13:41	04/16/18 11:54	1
		MB MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	84		50 - 150				04/10/18 13:41	04/16/18 11:54	1

Lab Sample ID: LCS 580-271028/2-A
Matrix: Water
Analysis Batch: 271472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.351		mg/L		70	59 - 112
Motor Oil (>C24-C36)	0.500	0.377		mg/L		75	64 - 120
		LCS LCS					
Surrogate	%Recovery	Qualifier	Limits				
<i>o</i> -Terphenyl	68		50 - 150				

Lab Sample ID: LCSD 580-271028/3-A
Matrix: Water
Analysis Batch: 271472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 271028

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.322		mg/L		64	59 - 112	9	16
Motor Oil (>C24-C36)	0.500	0.389		mg/L		78	64 - 120	3	17
		LCSD LCSD							
Surrogate	%Recovery	Qualifier	Limits						
<i>o</i> -Terphenyl	68		50 - 150						

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 580-270942/1-B
Matrix: Water
Analysis Batch: 271469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		04/09/18 13:36	04/16/18 11:54	1

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup (Continued)

Lab Sample ID: MB 580-270942/1-B
Matrix: Water
Analysis Batch: 271469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		04/09/18 13:36	04/16/18 11:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		50 - 150				04/09/18 13:36	04/16/18 11:54	1

Lab Sample ID: LCS 580-270942/2-B
Matrix: Water
Analysis Batch: 271469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
#2 Diesel (C10-C24)	0.500	0.429		mg/L		86	59 - 112		
Motor Oil (>C24-C36)	0.500	0.500		mg/L		100	64 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
<i>o</i> -Terphenyl	80		50 - 150						

Lab Sample ID: LCSD 580-270942/3-B
Matrix: Water
Analysis Batch: 271469

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 270942

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.349	*	mg/L		70	59 - 112	20	16
Motor Oil (>C24-C36)	0.500	0.398	*	mg/L		80	64 - 120	23	17
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	81		50 - 150						

Lab Sample ID: MB 580-271028/1-B
Matrix: Water
Analysis Batch: 271123

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		04/10/18 13:41	04/11/18 17:23	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		04/10/18 13:41	04/11/18 17:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		50 - 150				04/10/18 13:41	04/11/18 17:23	1

Lab Sample ID: LCS 580-271028/2-B
Matrix: Water
Analysis Batch: 271123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
#2 Diesel (C10-C24)	0.500	0.376		mg/L		75	59 - 112		
Motor Oil (>C24-C36)	0.500	0.365		mg/L		73	64 - 120		

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup (Continued)

Lab Sample ID: LCS 580-271028/2-B
Matrix: Water
Analysis Batch: 271123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271028

<i>Surrogate</i>	<i>LCS</i> <i>%Recovery</i>	<i>LCS</i> <i>Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	80		50 - 150

Lab Sample ID: LCSD 580-271028/3-B
Matrix: Water
Analysis Batch: 271123

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 271028

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCSD</i> <i>Result</i>	<i>LCSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
#2 Diesel (C10-C24)	0.500	0.362		mg/L		72	59 - 112	4	16
Motor Oil (>C24-C36)	0.500	0.404		mg/L		81	64 - 120	10	17

<i>Surrogate</i>	<i>LCSD</i> <i>%Recovery</i>	<i>LCSD</i> <i>Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	87		50 - 150



Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S1-BD-032618

Date Collected: 03/26/18 14:22

Date Received: 03/29/18 14:15

Lab Sample ID: 580-76198-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 14:24	T1W	TAL SEA

Client Sample ID: S1-BU-032618

Date Collected: 03/26/18 14:23

Date Received: 03/29/18 14:15

Lab Sample ID: 580-76198-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 14:53	T1W	TAL SEA

Client Sample ID: S1-AU-032618

Date Collected: 03/26/18 14:26

Date Received: 03/29/18 14:15

Lab Sample ID: 580-76198-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 15:23	T1W	TAL SEA

Client Sample ID: S1-AD-032618

Date Collected: 03/26/18 14:26

Date Received: 03/29/18 14:15

Lab Sample ID: 580-76198-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 15:53	T1W	TAL SEA

Client Sample ID: S2-AD-032618

Date Collected: 03/26/18 15:11

Date Received: 03/29/18 14:15

Lab Sample ID: 580-76198-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 16:22	T1W	TAL SEA

Client Sample ID: S2-AU-032618

Date Collected: 03/26/18 15:12

Date Received: 03/29/18 14:15

Lab Sample ID: 580-76198-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 16:52	T1W	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S2-BU-032618

Lab Sample ID: 580-76198-7

Date Collected: 03/26/18 15:16

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 17:22	T1W	TAL SEA

Client Sample ID: S2-BD-032618

Lab Sample ID: 580-76198-8

Date Collected: 03/26/18 15:16

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 18:20	T1W	TAL SEA

Client Sample ID: S3-AD-032618

Lab Sample ID: 580-76198-9

Date Collected: 03/26/18 16:17

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 18:49	T1W	TAL SEA

Client Sample ID: S3-AU-032618

Lab Sample ID: 580-76198-10

Date Collected: 03/26/18 16:17

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 19:18	T1W	TAL SEA

Client Sample ID: S3-BD-032618

Lab Sample ID: 580-76198-11

Date Collected: 03/26/18 16:20

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 19:47	T1W	TAL SEA

Client Sample ID: S3-BU-032618

Lab Sample ID: 580-76198-12

Date Collected: 03/26/18 16:19

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 20:15	T1W	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S3-CD-032618

Lab Sample ID: 580-76198-13

Date Collected: 03/26/18 17:01

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 20:43	T1W	TAL SEA

Client Sample ID: S3-CU-032618

Lab Sample ID: 580-76198-14

Date Collected: 03/26/18 17:02

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 21:11	T1W	TAL SEA

Client Sample ID: S4-AD-032718

Lab Sample ID: 580-76198-15

Date Collected: 03/27/18 09:05

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 21:40	T1W	TAL SEA

Client Sample ID: S4-AU-032718

Lab Sample ID: 580-76198-16

Date Collected: 03/27/18 09:10

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 22:08	T1W	TAL SEA

Client Sample ID: S4-CU-032718

Lab Sample ID: 580-76198-17

Date Collected: 03/27/18 09:05

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 22:36	T1W	TAL SEA

Client Sample ID: S4-CD-032718

Lab Sample ID: 580-76198-18

Date Collected: 03/27/18 09:08

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/09/18 23:32	T1W	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: S4-BU-032718

Lab Sample ID: 580-76198-19

Date Collected: 03/27/18 09:45

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/10/18 00:00	T1W	TAL SEA

Client Sample ID: S4-BD-032718

Lab Sample ID: 580-76198-20

Date Collected: 03/27/18 09:47

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270677	04/05/18 09:24	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270923	04/10/18 00:28	T1W	TAL SEA

Client Sample ID: MW-3-032718

Lab Sample ID: 580-76198-21

Date Collected: 03/27/18 10:25

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 18:23	T1W	TAL SEA

Client Sample ID: MW-4-032718

Lab Sample ID: 580-76198-22

Date Collected: 03/27/18 10:25

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 18:45	T1W	TAL SEA

Client Sample ID: MW-30-032718

Lab Sample ID: 580-76198-23

Date Collected: 03/27/18 10:30

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 19:08	T1W	TAL SEA

Client Sample ID: 2A-W-10-032718

Lab Sample ID: 580-76198-24

Date Collected: 03/27/18 12:05

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 19:30	T1W	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 2A-W-9-032718

Lab Sample ID: 580-76198-25

Date Collected: 03/27/18 12:10

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 19:53	T1W	TAL SEA

Client Sample ID: 5-W-17-032718

Lab Sample ID: 580-76198-26

Date Collected: 03/27/18 12:20

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 20:15	T1W	TAL SEA

Client Sample ID: 5-W-16-032718

Lab Sample ID: 580-76198-27

Date Collected: 03/27/18 12:21

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 20:37	T1W	TAL SEA

Client Sample ID: 5-W-19-032718

Lab Sample ID: 580-76198-28

Date Collected: 03/27/18 11:02

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 21:22	T1W	TAL SEA

Client Sample ID: 5-W-18-032718

Lab Sample ID: 580-76198-29

Date Collected: 03/27/18 11:05

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 21:44	T1W	TAL SEA

Client Sample ID: EW-2A-032718

Lab Sample ID: 580-76198-30

Date Collected: 03/27/18 13:25

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 22:06	T1W	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: GW-4-032718

Lab Sample ID: 580-76198-31

Date Collected: 03/27/18 13:25

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 22:28	T1W	TAL SEA

Client Sample ID: 5-W-55-032718

Lab Sample ID: 580-76198-32

Date Collected: 03/27/18 13:40

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270988	04/10/18 11:42	ERZ	TAL SEA

Client Sample ID: 5-W-54-032718

Lab Sample ID: 580-76198-33

Date Collected: 03/27/18 13:26

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 23:12	T1W	TAL SEA

Client Sample ID: 1C-W-1-032718

Lab Sample ID: 580-76198-34

Date Collected: 03/27/18 15:15

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 23:34	T1W	TAL SEA

Client Sample ID: 1C-W-8-032718

Lab Sample ID: 580-76198-35

Date Collected: 03/27/18 15:23

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/09/18 23:57	T1W	TAL SEA

Client Sample ID: 1C-W-3-032718

Lab Sample ID: 580-76198-36

Date Collected: 03/27/18 16:10

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270910	04/10/18 00:19	T1W	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 1C-W-4-032718

Lab Sample ID: 580-76198-37

Date Collected: 03/27/18 16:17

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270830	04/06/18 13:47	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	270988	04/10/18 12:11	ERZ	TAL SEA

Client Sample ID: 5-W-43-032718

Lab Sample ID: 580-76198-38

Date Collected: 03/27/18 15:25

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/11/18 23:52	CJ	TAL SEA

Client Sample ID: EW-1-032718

Lab Sample ID: 580-76198-39

Date Collected: 03/27/18 15:26

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 00:20	CJ	TAL SEA

Client Sample ID: EW-10-032718

Lab Sample ID: 580-76198-40

Date Collected: 03/27/18 15:32

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 00:47	CJ	TAL SEA

Client Sample ID: MW-555-032718

Lab Sample ID: 580-76198-41

Date Collected: 03/27/18 17:00

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 01:14	CJ	TAL SEA

Client Sample ID: 5-W-56-032718

Lab Sample ID: 580-76198-42

Date Collected: 03/27/18 16:55

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 01:41	CJ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 5-W-51-032718

Lab Sample ID: 580-76198-43

Date Collected: 03/27/18 17:01

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		3	271123	04/12/18 12:24	CJ	TAL SEA

Client Sample ID: 1C-W-7-032818

Lab Sample ID: 580-76198-44

Date Collected: 03/28/18 09:10

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 02:36	CJ	TAL SEA

Client Sample ID: 2A-W-42-032818

Lab Sample ID: 580-76198-45

Date Collected: 03/28/18 09:18

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 03:57	CJ	TAL SEA

Client Sample ID: 1B-W-3-032818

Lab Sample ID: 580-76198-46

Date Collected: 03/28/18 10:15

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 04:27	CJ	TAL SEA

Client Sample ID: 1B-W-2-032818

Lab Sample ID: 580-76198-47

Date Collected: 03/28/18 10:15

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 04:56	CJ	TAL SEA

Client Sample ID: 1B-W-23-032818

Lab Sample ID: 580-76198-48

Date Collected: 03/28/18 11:25

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 05:23	CJ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: GW-3-032818

Lab Sample ID: 580-76198-49

Date Collected: 03/28/18 11:25

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Cleanup	3630C			271061	04/10/18 15:56	KMS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271469	04/16/18 12:59	ADB	TAL SEA
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 05:53	CJ	TAL SEA

Client Sample ID: GW-30-032818

Lab Sample ID: 580-76198-50

Date Collected: 03/28/18 11:25

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 06:21	CJ	TAL SEA

Client Sample ID: 5-W-14-032818

Lab Sample ID: 580-76198-51

Date Collected: 03/28/18 09:11

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 06:49	CJ	TAL SEA

Client Sample ID: 5-W-15-032818

Lab Sample ID: 580-76198-52

Date Collected: 03/28/18 09:20

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 07:17	CJ	TAL SEA

Client Sample ID: 5-W-150-032818

Lab Sample ID: 580-76198-53

Date Collected: 03/28/18 09:25

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 07:46	CJ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: MW-38R-032818

Lab Sample ID: 580-76198-54

Date Collected: 03/28/18 10:44

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 08:14	CJ	TAL SEA

Client Sample ID: GW-1-032818

Lab Sample ID: 580-76198-55

Date Collected: 03/28/18 10:30

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 09:37	CJ	TAL SEA

Client Sample ID: GW-2-032818

Lab Sample ID: 580-76198-56

Date Collected: 03/28/18 11:25

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 10:05	CJ	TAL SEA

Client Sample ID: GW-20-032818

Lab Sample ID: 580-76198-57

Date Collected: 03/28/18 11:30

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270942	04/09/18 13:36	MRG	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/12/18 10:32	CJ	TAL SEA

Client Sample ID: 2A-W-40-032818

Lab Sample ID: 580-76198-58

Date Collected: 03/28/18 11:48

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			271028	04/10/18 13:41	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271472	04/16/18 12:59	ADB	TAL SEA

Client Sample ID: 2A-W-41-032818

Lab Sample ID: 580-76198-59

Date Collected: 03/28/18 12:45

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			271028	04/10/18 13:41	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271472	04/16/18 13:21	ADB	TAL SEA
Total/NA	Prep	3510C			271028	04/10/18 13:41	APR	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Client Sample ID: 2A-W-41-032818

Lab Sample ID: 580-76198-59

Date Collected: 03/28/18 12:45

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3630C			271098	04/11/18 10:35	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271123	04/11/18 18:47	CJ	TAL SEA

Client Sample ID: 2A-W-410-032818

Lab Sample ID: 580-76198-60

Date Collected: 03/28/18 12:52

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			271028	04/10/18 13:41	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271472	04/16/18 13:43	ADB	TAL SEA

Client Sample ID: 1A-W-4-032818

Lab Sample ID: 580-76198-61

Date Collected: 03/28/18 12:50

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			271028	04/10/18 13:41	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271472	04/16/18 14:05	ADB	TAL SEA

Client Sample ID: 2B-W-4-032818

Lab Sample ID: 580-76198-62

Date Collected: 03/28/18 12:52

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			271028	04/10/18 13:41	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271472	04/16/18 14:27	ADB	TAL SEA

Client Sample ID: MW-16-032818

Lab Sample ID: 580-76198-63

Date Collected: 03/28/18 13:00

Matrix: Water

Date Received: 03/29/18 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			271028	04/10/18 13:41	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	271472	04/16/18 14:49	ADB	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TestAmerica Seattle

Accreditation/Certification Summary

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Laboratory: TestAmerica Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-18
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-05-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Sample Summary

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-76198-1	S1-BD-032618	Water	03/26/18 14:22	03/29/18 14:15
580-76198-2	S1-BU-032618	Water	03/26/18 14:23	03/29/18 14:15
580-76198-3	S1-AU-032618	Water	03/26/18 14:26	03/29/18 14:15
580-76198-4	S1-AD-032618	Water	03/26/18 14:26	03/29/18 14:15
580-76198-5	S2-AD-032618	Water	03/26/18 15:11	03/29/18 14:15
580-76198-6	S2-AU-032618	Water	03/26/18 15:12	03/29/18 14:15
580-76198-7	S2-BU-032618	Water	03/26/18 15:16	03/29/18 14:15
580-76198-8	S2-BD-032618	Water	03/26/18 15:16	03/29/18 14:15
580-76198-9	S3-AD-032618	Water	03/26/18 16:17	03/29/18 14:15
580-76198-10	S3-AU-032618	Water	03/26/18 16:17	03/29/18 14:15
580-76198-11	S3-BD-032618	Water	03/26/18 16:20	03/29/18 14:15
580-76198-12	S3-BU-032618	Water	03/26/18 16:19	03/29/18 14:15
580-76198-13	S3-CD-032618	Water	03/26/18 17:01	03/29/18 14:15
580-76198-14	S3-CU-032618	Water	03/26/18 17:02	03/29/18 14:15
580-76198-15	S4-AD-032718	Water	03/27/18 09:05	03/29/18 14:15
580-76198-16	S4-AU-032718	Water	03/27/18 09:10	03/29/18 14:15
580-76198-17	S4-CU-032718	Water	03/27/18 09:05	03/29/18 14:15
580-76198-18	S4-CD-032718	Water	03/27/18 09:08	03/29/18 14:15
580-76198-19	S4-BU-032718	Water	03/27/18 09:45	03/29/18 14:15
580-76198-20	S4-BD-032718	Water	03/27/18 09:47	03/29/18 14:15
580-76198-21	MW-3-032718	Water	03/27/18 10:25	03/29/18 14:15
580-76198-22	MW-4-032718	Water	03/27/18 10:25	03/29/18 14:15
580-76198-23	MW-30-032718	Water	03/27/18 10:30	03/29/18 14:15
580-76198-24	2A-W-10-032718	Water	03/27/18 12:05	03/29/18 14:15
580-76198-25	2A-W-9-032718	Water	03/27/18 12:10	03/29/18 14:15
580-76198-26	5-W-17-032718	Water	03/27/18 12:20	03/29/18 14:15
580-76198-27	5-W-16-032718	Water	03/27/18 12:21	03/29/18 14:15
580-76198-28	5-W-19-032718	Water	03/27/18 11:02	03/29/18 14:15
580-76198-29	5-W-18-032718	Water	03/27/18 11:05	03/29/18 14:15
580-76198-30	EW-2A-032718	Water	03/27/18 13:25	03/29/18 14:15
580-76198-31	GW-4-032718	Water	03/27/18 13:25	03/29/18 14:15
580-76198-32	5-W-55-032718	Water	03/27/18 13:40	03/29/18 14:15
580-76198-33	5-W-54-032718	Water	03/27/18 13:26	03/29/18 14:15
580-76198-34	1C-W-1-032718	Water	03/27/18 15:15	03/29/18 14:15
580-76198-35	1C-W-8-032718	Water	03/27/18 15:23	03/29/18 14:15
580-76198-36	1C-W-3-032718	Water	03/27/18 16:10	03/29/18 14:15
580-76198-37	1C-W-4-032718	Water	03/27/18 16:17	03/29/18 14:15
580-76198-38	5-W-43-032718	Water	03/27/18 15:25	03/29/18 14:15
580-76198-39	EW-1-032718	Water	03/27/18 15:26	03/29/18 14:15
580-76198-40	EW-10-032718	Water	03/27/18 15:32	03/29/18 14:15
580-76198-41	MW-555-032718	Water	03/27/18 17:00	03/29/18 14:15
580-76198-42	5-W-56-032718	Water	03/27/18 16:55	03/29/18 14:15
580-76198-43	5-W-51-032718	Water	03/27/18 17:01	03/29/18 14:15
580-76198-44	1C-W-7-032818	Water	03/28/18 09:10	03/29/18 14:15
580-76198-45	2A-W-42-032818	Water	03/28/18 09:18	03/29/18 14:15
580-76198-46	1B-W-3-032818	Water	03/28/18 10:15	03/29/18 14:15
580-76198-47	1B-W-2-032818	Water	03/28/18 10:15	03/29/18 14:15
580-76198-48	1B-W-23-032818	Water	03/28/18 11:25	03/29/18 14:15
580-76198-49	GW-3-032818	Water	03/28/18 11:25	03/29/18 14:15
580-76198-50	GW-30-032818	Water	03/28/18 11:25	03/29/18 14:15
580-76198-51	5-W-14-032818	Water	03/28/18 09:11	03/29/18 14:15
580-76198-52	5-W-15-032818	Water	03/28/18 09:20	03/29/18 14:15
580-76198-53	5-W-150-032818	Water	03/28/18 09:25	03/29/18 14:15

TestAmerica Seattle

Sample Summary

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-76198-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-76198-54	MW-38R-032818	Water	03/28/18 10:44	03/29/18 14:15
580-76198-55	GW-1-032818	Water	03/28/18 10:30	03/29/18 14:15
580-76198-56	GW-2-032818	Water	03/28/18 11:25	03/29/18 14:15
580-76198-57	GW-20-032818	Water	03/28/18 11:30	03/29/18 14:15
580-76198-58	2A-W-40-032818	Water	03/28/18 11:48	03/29/18 14:15
580-76198-59	2A-W-41-032818	Water	03/28/18 12:45	03/29/18 14:15
580-76198-60	2A-W-410-032818	Water	03/28/18 12:52	03/29/18 14:15
580-76198-61	1A-W-4-032818	Water	03/28/18 12:50	03/29/18 14:15
580-76198-62	2B-W-4-032818	Water	03/28/18 12:52	03/29/18 14:15
580-76198-63	MW-16-032818	Water	03/28/18 13:00	03/29/18 14:15



1/5

Loc: 580
76198



CHAIN OF CUSTODY

Laboratory:
Address:
City/State/ZIP:

LABORATORY INFORMATION
Project Manager:
Phone:
Fax:

LAB WORK ORDER:
SHIPMENT INFORMATION
Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION
Project State of Origin: WA
BNSF Project Number: 683-067
Project City: Skykomish
BNSF Project Name: Skykomish semi Annual
BNSF Contact:

CONSULTANT INFORMATION
Project Number: 683-067
Company: Farallon Consulting
Project Manager: Rob Leet
Address: 975 5th AVE NW
Email: RLeet@farallonconsulting.com
City/State/ZIP: Issaquah WA 98027
Phone: 425 295 8800
Fax:

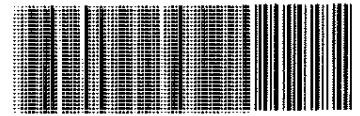
TURNAROUND TIME
 1-day Rush
 2-day Rush
 3-day Rush
 5- to 8-day Rush
 Standard 10-Day
 Other

DELIVERABLES
 BNSF Standard (Level II)
 Level III
 Level IV
 Other Deliverables?
 EDD Req. Format?

METHODS FOR ANALYSIS

SAMPLE INFORMATION

Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/ Grab)	Matrix	201-1-D 201-201										COMMENTS	LAB USE
		Date	Time	Sampler															
1 S1-BD-032618	2	3/26/18	1422	MB	N	G	W	X											
2 S1-BU-032618			1423	MB				X											
3 S1-AU-032618			1426	KK				X											
4 S1-AD-032618			1426	KK				X											
5 S2-AD-032618			1511	MB				X											
6 S2-AU-032618			1512	MB				X											
7 S2-BU-032618			1516	KK				X											
8 S2-BD-032618			1516	KK				X											
9 S3-AD-032618			1617	KK				X											
10 S3-AU-032618			1617	KK				X											
11 S3-BD-032618			1620	MB				X											
12 S3-BU-032618			1619	MB				X											
13 S3-CD-032618			1701	MB				X											
14 S3-CD-032618			1702	MB				X											
15 S4-AD-032718		3/27/18	0905	AB				X											



580-76198 Chain of Custody

Relinquished By: *Michelle Bailey* Date/Time: 3/24/18/0900
Received By: *[Signature]* Date/Time: 3/24/18 1415
Relinquished By: Date/Time: Received By: Date/Time:
Relinquished By: Date/Time: Received By: Date/Time:
Received by Laboratory: Date/Time: Lab Remarks: Lab: Custody Intact? Yes No


Comments and Special Analytical Requirements:
Custody Seal No. BNSF COC No.

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (09/12)

2/5


 <p>CHAIN OF CUSTODY</p>	LABORATORY INFORMATION						LAB WORK ORDER:												
	Laboratory:			Project Manager:			SHIPMENT INFORMATION												
	Address:			Phone:			Shipment Method:												
City/State/ZIP:			Fax:			Tracking Number:													
BNSF PROJECT INFORMATION			CONSULTANT INFORMATION			Project Number:													
BNSF Project Number: 683-067			Project State of Origin: WA			Project Number: 683-067													
BNSF Project Name: skykomish Semi Annual			Project City: skykomish			Project Manager: Rob Leet													
BNSF Contact:			BNSF Work Order No.:			Company: Farallon Consulting													
BNSF Work Order No.:			Address: 975 5th Avenue Northwest			Email: RLeet@farallonconsulting.com													
BNSF Work Order No.:			City/State/ZIP: Issaquah, WA 98027			Phone: 425-295-0800													
TURNAROUND TIME		DELIVERABLES				METHODS FOR ANALYSIS													
<input type="checkbox"/> 1-day Rush		<input checked="" type="checkbox"/> BNSF Standard (Level II)				32 PH-Dx 27 PH-Dx													
<input type="checkbox"/> 2-day Rush		<input type="checkbox"/> Level III																	
<input type="checkbox"/> 3-day Rush		<input type="checkbox"/> Level IV																	
<input type="checkbox"/> 5- to 8-day Rush		<input type="checkbox"/> EDD Req. Format?																	
<input type="checkbox"/> Standard 10-Day		<input type="checkbox"/> Other Deliverables?				COMMENTS													
<input type="checkbox"/> Other _____		<input type="checkbox"/> Other _____				LAB USE													
SAMPLE INFORMATION																			
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix												
		Date	Time	Sampler															
1 54-AU-032718	2	3/27/18	0910	YP	N	G	W	X											
2 54-LU-032718			0905	MB				X											
3 54-LD-032718			0908	NT				X											
4 54-BU-032718			0945	MB				X											
5 54-BD-032718			0947	NT				X											
6 MW-3-032718			1025	AB				X											
7 MW-4-032718			1025	YP				X											
8 MW-30-032718			1030	AB				X											
9 2A-W-10-032718			1205	YP				X											
10 2A-W-9-032718			1210	AB				X											
11 5-W-17-032718			1220	MB				X											
12 5-W-16-032718			1221	NT				X											
13 5-W-19-032718			1102	NT				X											
14 5-W-18-032718			1105	MB				X											
15 EW-2A-032718			1325	YP				X											
Relinquished By: <i>Amber Bailey</i>		Date/Time: 3/29/18 0900		Received By: <i>ZZZ</i>		Date/Time: 3/29/18 1115		Comments and Special Analytical Requirements:											
Relinquished By:		Date/Time:		Received By:		Date/Time:													
Relinquished By:		Date/Time:		Received By:		Date/Time:													
Received by Laboratory:		Date/Time:		Lab Remarks:		Lab: Custody Intact?		<input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		BNSF COC No.							

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (0912)

4/5

 <p>CHAIN OF CUSTODY</p>	<p align="center">LABORATORY INFORMATION</p>						<p>LAB WORK ORDER:</p>		
	<p>Laboratory: _____ Project Manager: _____</p>			<p>Address: _____ Phone: _____</p>			<p align="center">SHIPMENT INFORMATION</p>		
	<p>City/State/ZIP: _____ Fax: _____</p>			<p>Shipment Method: _____</p>			<p>Tracking Number: _____</p>		
<p>BNSF PROJECT INFORMATION</p>			<p>CONSULTANT INFORMATION</p>			<p>Project Number: 683-067</p>			
<p>BNSF Project Number: 683-067 Project State of Origin: WA</p>			<p>Project City: skykomish Company: farallon consulting</p>			<p>Project Manager: Rob Keet</p>			
<p>BNSF Project Name: Skykomish Semi Annual</p>			<p>Address: 975 5th AVE NW</p>			<p>Email: Rkeet@farallonconsulting.com</p>			
<p>BNSF Contact: Shane Debross BNSF Work Order No.: BFI0007215/TT-06</p>			<p>City/State/ZIP: Issaquah WA 98027</p>			<p>Phone: 425 295 0800 Fax: _____</p>			
<p>TURNAROUND TIME</p>		<p>DELIVERABLES <input type="checkbox"/> Other Deliverables?</p>				<p>METHODS FOR ANALYSIS</p>			
<p><input type="checkbox"/> 1-day Rush <input type="checkbox"/> 5- to 8-day Rush</p> <p><input type="checkbox"/> 2-day Rush <input checked="" type="checkbox"/> Standard 10-Day</p> <p><input type="checkbox"/> 3-day Rush <input type="checkbox"/> Other _____</p>		<p><input checked="" type="checkbox"/> BNSF Standard (Level II)</p> <p><input type="checkbox"/> Level III <input type="checkbox"/> EDD Req. Format?</p> <p><input type="checkbox"/> Level IV</p>				<p><i>NW TPH-DX</i></p> <p><i>Silica Gel Cleanup TPH-DX</i></p>			
<p align="center">SAMPLE INFORMATION</p>									
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix	COMMENTS	LAB USE
		Date	Time	Sampler					
1B-W-3-032818	2	3/28/18	1015	AB	N	G	W	X	
2B-W-2-032818			1015	YP				X	
3B-W-23-032818			1125	AB				X	
4GW-3-032818			1125	YP				X	X
5GW-30-032818			1125	YP				X	
65-W-14-032818			0911	NT				X	
75-W-15-032818			0920	MB				X	
85-W-150-032818			0925	MB				X	
9MW-38R-032818			1044	NT				X	
10GW-1-032818			1030	NT				X	
11GW-2-032818			1125	MB				X	
12GW-20-032818			1130	MB				X	
132A-W-40-032818			1148	NT				X	
142A-W-41-032818			1245	NT				X	X
152A-W-410-032818			1252	NT				X	
Relinquished By: Analen Bailey	Date/Time: 3/24/18/0900	Received By: [Signature]	Date/Time: 3/24/18 1415	<p>Comments and Special Analytical Requirements: NW TPH-DX w/ Silica Gel Cleanup</p>					
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____						
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____						
Received by Laboratory: _____	Date/Time: _____	Lab Remarks: _____	Lab: Custody Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No. _____	BNSF COC No. _____				

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (0912)

Therm. ID A2 Cor 3.1° Unc 3.3°
Cooler Dsc: Lg Blk
~~Wet~~/Packs Packing: Bubble
Custody Seal: Yes No

Therm. ID A1 Cor 0.3° Unc 0.5°
Cooler Dsc: Lg Green
~~Wet~~/Packs Packing: Bubble
Custody Seal: Yes No

Therm. ID A2 Cor 0.2° Unc 0.4°
Cooler Dsc: Lg Blk
~~Wet~~/Packs Packing: Bubble
Custody Seal: Yes No

Therm. ID A2 Cor 0.2° Unc 0.4°
Cooler Dsc: Lrg Brown
~~Wet~~/Packs Packing: Bubble
Custody Seal: Yes No

Therm. ID A2 Cor 0.1° Unc 0.3°
Cooler Dsc: Lrg Red
~~Wet~~/Packs Packing: Bub
Lab Cov Custody Seal: Yes No

Therm. ID A2 Cor 0.5° Unc 0.7°
Cooler Dsc: Lrg Green
~~Wet~~/Packs Packing: Bub
Lab Cov Custody Seal: Yes No

Therm. ID A2 Cor 0.8° Unc 1.0°
Cooler Dsc: Lrg Green
~~Wet~~/Packs Packing: Blk
Lab Cov Custody Seal: Yes No

Therm. ID A2 Cor 0.0° Unc 0.2°
Cooler Dsc: Lrg Green
~~Wet~~/Packs Packing: Bubble
Custody Seal: Yes No

Page 93 of 94
Therm. ID A2 Cor 0.2° Unc 0.0°
Cooler Dsc: Lg Green
~~Wet~~/Packs Packing: Bubble
Custody Seal: Yes No

Therm. ID AZ Cor 0.1° Unc 0.3°
Cooler Dsc: Lrg Brown
~~Wet~~/Packs Packing: Bub
Lab Cov Custody Seal: Yes No

Therm. ID AZ Cor 0.3° Unc 0.5°
Cooler Dsc: Lrg Brown
~~Wet~~/Packs Packing: Bub
Lab Cov Custody Seal: Yes No

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-76198-1

Login Number: 76198

List Number: 1

Creator: Gall, Brandon A

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-78310-1

Client Project/Site: BNSF Skykomish Ground Water
Revision: 2

For:

Farallon Consulting LLC
1809 7th Ave. Suite 1111
Seattle, Washington 98101

Attn: Rob Leet

Kristine D. Allen

Authorized for release by:
8/27/2018 5:15:15 PM

Kristine Allen, Manager of Project Management
(253)248-4970

kristine.allen@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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11



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	35
Chronicle	38
Certification Summary	44
Sample Summary	45
Chain of Custody	46
Receipt Checklists	49

Case Narrative

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Job ID: 580-78310-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative 580-78310-1

Comments

Report was revised to correct several client sample IDs.

No additional comments.

Receipt

The samples were received on 6/21/2018 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.3° C, 0.6° C, 0.6° C, 0.6° C and 2.2° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 2B-W-4-061918

Lab Sample ID: 580-78310-1

Date Collected: 06/19/18 09:55

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 11:16	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		06/26/18 08:51	06/27/18 11:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	106		50 - 150				06/26/18 08:51	06/27/18 11:16	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: MW-3-061918

Lab Sample ID: 580-78310-2

Date Collected: 06/19/18 10:05

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.76		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 11:37	1
Motor Oil (>C24-C36)	1.1		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 11:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		50 - 150				06/26/18 08:51	06/27/18 11:37	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: MW-4-061918

Lab Sample ID: 580-78310-3

Date Collected: 06/19/18 11:05

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.088		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 11:59	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		06/26/18 08:51	06/27/18 11:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	103		50 - 150				06/26/18 08:51	06/27/18 11:59	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 2A-W-10-061918

Lab Sample ID: 580-78310-4

Date Collected: 06/19/18 11:30

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.072		0.064	0.064	mg/L		06/26/18 08:51	06/27/18 12:21	1
Motor Oil (>C24-C36)	0.22		0.094	0.094	mg/L		06/26/18 08:51	06/27/18 12:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		50 - 150				06/26/18 08:51	06/27/18 12:21	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 5-W-18-061918

Lab Sample ID: 580-78310-5

Date Collected: 06/19/18 12:50

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063	0.063	mg/L		06/26/18 08:51	06/27/18 12:43	1
Motor Oil (>C24-C36)	ND		0.093	0.093	mg/L		06/26/18 08:51	06/27/18 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	103		50 - 150				06/26/18 08:51	06/27/18 12:43	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 5-W-19-061918

Lab Sample ID: 580-78310-6

Date Collected: 06/19/18 12:56

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063	0.063	mg/L		06/26/18 08:51	06/27/18 13:09	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		06/26/18 08:51	06/27/18 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	102		50 - 150				06/26/18 08:51	06/27/18 13:09	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 2A-W-9-061918

Lab Sample ID: 580-78310-7

Date Collected: 06/19/18 12:05

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.071		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 13:31	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	99		50 - 150				06/26/18 08:51	06/27/18 13:31	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 5-W-14--061918

Lab Sample ID: 580-78310-8

Date Collected: 06/19/18 14:45

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 14:15	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	101		50 - 150				06/26/18 08:51	06/27/18 14:15	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 5-W-16-061918

Lab Sample ID: 580-78310-9

Date Collected: 06/19/18 14:45

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 14:37	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	91		50 - 150				06/26/18 08:51	06/27/18 14:37	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 5-W-17-061918

Lab Sample ID: 580-78310-10

Date Collected: 06/19/18 15:02

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 14:59	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		50 - 150				06/26/18 08:51	06/27/18 14:59	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 5-W-43-061918

Lab Sample ID: 580-78310-11

Date Collected: 06/19/18 15:52

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		06/26/18 08:51	06/27/18 15:21	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	91		50 - 150				06/26/18 08:51	06/27/18 15:21	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: EW-1-061918

Lab Sample ID: 580-78310-12

Date Collected: 06/19/18 15:55

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 15:43	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		50 - 150				06/26/18 08:51	06/27/18 15:43	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 5-W-15-061918

Lab Sample ID: 580-78310-13

Date Collected: 06/19/18 16:00

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 16:04	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	91		50 - 150				06/26/18 08:51	06/27/18 16:04	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 2A-W-40-061918

Lab Sample ID: 580-78310-14

Date Collected: 06/19/18 16:59

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 16:26	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		06/26/18 08:51	06/27/18 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	94		50 - 150				06/26/18 08:51	06/27/18 16:26	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: GW-1-061918

Lab Sample ID: 580-78310-15

Date Collected: 06/19/18 17:00

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 16:48	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	94		50 - 150				06/26/18 08:51	06/27/18 16:48	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: GW-2-061918

Lab Sample ID: 580-78310-16

Date Collected: 06/19/18 16:57

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		06/26/18 08:51	06/27/18 17:09	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	100		50 - 150				06/26/18 08:51	06/27/18 17:09	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: GW-20-061918

Lab Sample ID: 580-78310-17

Date Collected: 06/19/18 17:10

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		06/26/18 08:51	06/27/18 17:31	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		50 - 150				06/26/18 08:51	06/27/18 17:31	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: EW-2A-062018

Lab Sample ID: 580-78310-18

Date Collected: 06/20/18 09:30

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 18:15	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	97		50 - 150				06/26/18 08:51	06/27/18 18:15	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: GW-3-062018

Lab Sample ID: 580-78310-19

Date Collected: 06/20/18 09:35

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.42		0.062	0.062	mg/L		06/26/18 08:51	06/27/18 18:37	1
Motor Oil (>C24-C36)	0.18		0.091	0.091	mg/L		06/26/18 08:51	06/27/18 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	99		50 - 150				06/26/18 08:51	06/27/18 18:37	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.14		0.062	0.062	mg/L		06/26/18 08:51	07/10/18 12:23	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		06/26/18 08:51	07/10/18 12:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	88		50 - 150				06/26/18 08:51	07/10/18 12:23	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: GW-30-062018

Lab Sample ID: 580-78310-20

Date Collected: 06/20/18 09:45

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.35		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 15:20	1
Motor Oil (>C24-C36)	0.14		0.091	0.091	mg/L		07/02/18 09:10	07/03/18 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		50 - 150				07/02/18 09:10	07/03/18 15:20	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 2A-W-41-062018

Lab Sample ID: 580-78310-21

Date Collected: 06/20/18 09:53

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.13		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 15:48	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		07/02/18 09:10	07/03/18 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	80		50 - 150				07/02/18 09:10	07/03/18 15:48	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 11:43	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		07/02/18 09:10	07/03/18 11:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	82		50 - 150				07/02/18 09:10	07/03/18 11:43	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 2A-W-410-062018

Lab Sample ID: 580-78310-22

Date Collected: 06/20/18 10:12

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.11		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 16:15	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		07/02/18 09:10	07/03/18 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		50 - 150				07/02/18 09:10	07/03/18 16:15	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 1B-W-3-062018

Lab Sample ID: 580-78310-23

Date Collected: 06/20/18 10:50

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 16:42	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		07/02/18 09:10	07/03/18 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		50 - 150				07/02/18 09:10	07/03/18 16:42	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 1B-W-23-062018

Lab Sample ID: 580-78310-24

Date Collected: 06/20/18 11:00

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 17:37	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		07/02/18 09:10	07/03/18 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		50 - 150				07/02/18 09:10	07/03/18 17:37	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: GW-4-062018

Lab Sample ID: 580-78310-25

Date Collected: 06/20/18 11:27

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 18:04	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		07/02/18 09:10	07/03/18 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	71		50 - 150				07/02/18 09:10	07/03/18 18:04	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 2A-W-42-062018

Lab Sample ID: 580-78310-26

Date Collected: 06/20/18 12:00

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.10		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 18:32	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		07/02/18 09:10	07/03/18 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	82		50 - 150				07/02/18 09:10	07/03/18 18:32	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 1C-W-7-062018

Lab Sample ID: 580-78310-27

Date Collected: 06/20/18 12:25

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.077		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 18:59	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		07/02/18 09:10	07/03/18 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		50 - 150				07/02/18 09:10	07/03/18 18:59	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 1C-W-8-062018

Lab Sample ID: 580-78310-28

Date Collected: 06/20/18 12:45

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 19:27	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		07/02/18 09:10	07/03/18 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	85		50 - 150				07/02/18 09:10	07/03/18 19:27	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 1C-W-1-062018

Lab Sample ID: 580-78310-29

Date Collected: 06/20/18 13:00

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 19:54	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		07/02/18 09:10	07/03/18 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		50 - 150				07/02/18 09:10	07/03/18 19:54	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: MW-555-062018

Lab Sample ID: 580-78310-30

Date Collected: 06/20/18 13:30

Matrix: Water

Date Received: 06/21/18 15:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/02/18 09:10	07/03/18 20:21	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		07/02/18 09:10	07/03/18 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		50 - 150				07/02/18 09:10	07/03/18 20:21	1

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QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-277357/1-A
Matrix: Water
Analysis Batch: 277481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 277357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		06/26/18 08:51	06/27/18 10:10	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		06/26/18 08:51	06/27/18 10:10	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	95		50 - 150				06/26/18 08:51	06/27/18 10:10	1

Lab Sample ID: LCS 580-277357/2-A
Matrix: Water
Analysis Batch: 277481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 277357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
#2 Diesel (C10-C24)	0.500	0.430		mg/L		86	50 - 120		
Motor Oil (>C24-C36)	0.500	0.477		mg/L		95	64 - 120		
Surrogate	%Recovery	LCS Qualifier	Limits						
<i>o</i> -Terphenyl	91		50 - 150						

Lab Sample ID: LCSD 580-277357/3-A
Matrix: Water
Analysis Batch: 277481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 277357

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.459		mg/L		92	50 - 120	7	26
Motor Oil (>C24-C36)	0.500	0.506		mg/L		101	64 - 120	6	24
Surrogate	%Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	94		50 - 150						

Lab Sample ID: MB 580-277910/1-A
Matrix: Water
Analysis Batch: 277995

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 277910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		07/02/18 09:10	07/03/18 12:37	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		07/02/18 09:10	07/03/18 12:37	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		50 - 150				07/02/18 09:10	07/03/18 12:37	1

Lab Sample ID: LCS 580-277910/2-A
Matrix: Water
Analysis Batch: 277995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 277910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
#2 Diesel (C10-C24)	0.500	0.403		mg/L		81	50 - 120		
Motor Oil (>C24-C36)	0.500	0.492		mg/L		98	64 - 120		

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-277910/2-A
Matrix: Water
Analysis Batch: 277995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 277910

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	89		50 - 150

Lab Sample ID: LCSD 580-277910/3-A
Matrix: Water
Analysis Batch: 277995

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 277910

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.405		mg/L		81	50 - 120	0	26
Motor Oil (>C24-C36)	0.500	0.504		mg/L		101	64 - 120	2	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	92		50 - 150

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 580-277357/1-B
Matrix: Water
Analysis Batch: 278519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 277357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		06/26/18 08:51	07/10/18 11:01	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		06/26/18 08:51	07/10/18 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		50 - 150	06/26/18 08:51	07/10/18 11:01	1

Lab Sample ID: LCS 580-277357/2-B
Matrix: Water
Analysis Batch: 278519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 277357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.468		mg/L		94	50 - 120
Motor Oil (>C24-C36)	0.500	0.570		mg/L		114	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	110		50 - 150

Lab Sample ID: LCSD 580-277357/3-B
Matrix: Water
Analysis Batch: 278519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 277357

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.471		mg/L		94	50 - 120	1	26
Motor Oil (>C24-C36)	0.500	0.572		mg/L		114	64 - 120	0	24

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup (Continued)

Lab Sample ID: LCSD 580-277357/3-B
Matrix: Water
Analysis Batch: 278519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 277357

<i>Surrogate</i>	<i>LCSD</i> <i>%Recovery</i>	<i>LCSD</i> <i>Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	109		50 - 150

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Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 2B-W-4-061918

Date Collected: 06/19/18 09:55

Date Received: 06/21/18 15:35

Lab Sample ID: 580-78310-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 11:16	CJ	TAL SEA

Client Sample ID: MW-3-061918

Date Collected: 06/19/18 10:05

Date Received: 06/21/18 15:35

Lab Sample ID: 580-78310-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 11:37	CJ	TAL SEA

Client Sample ID: MW-4-061918

Date Collected: 06/19/18 11:05

Date Received: 06/21/18 15:35

Lab Sample ID: 580-78310-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 11:59	CJ	TAL SEA

Client Sample ID: 2A-W-10-061918

Date Collected: 06/19/18 11:30

Date Received: 06/21/18 15:35

Lab Sample ID: 580-78310-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 12:21	CJ	TAL SEA

Client Sample ID: 5-W-18-061918

Date Collected: 06/19/18 12:50

Date Received: 06/21/18 15:35

Lab Sample ID: 580-78310-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 12:43	CJ	TAL SEA

Client Sample ID: 5-W-19-061918

Date Collected: 06/19/18 12:56

Date Received: 06/21/18 15:35

Lab Sample ID: 580-78310-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 13:09	CJ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 2A-W-9-061918

Lab Sample ID: 580-78310-7

Date Collected: 06/19/18 12:05

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 13:31	CJ	TAL SEA

Client Sample ID: 5-W-14--061918

Lab Sample ID: 580-78310-8

Date Collected: 06/19/18 14:45

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 14:15	CJ	TAL SEA

Client Sample ID: 5-W-16-061918

Lab Sample ID: 580-78310-9

Date Collected: 06/19/18 14:45

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 14:37	CJ	TAL SEA

Client Sample ID: 5-W-17-061918

Lab Sample ID: 580-78310-10

Date Collected: 06/19/18 15:02

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 14:59	CJ	TAL SEA

Client Sample ID: 5-W-43-061918

Lab Sample ID: 580-78310-11

Date Collected: 06/19/18 15:52

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 15:21	CJ	TAL SEA

Client Sample ID: EW-1-061918

Lab Sample ID: 580-78310-12

Date Collected: 06/19/18 15:55

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 15:43	CJ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 5-W-15-061918

Lab Sample ID: 580-78310-13

Date Collected: 06/19/18 16:00

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 16:04	CJ	TAL SEA

Client Sample ID: 2A-W-40-061918

Lab Sample ID: 580-78310-14

Date Collected: 06/19/18 16:59

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 16:26	CJ	TAL SEA

Client Sample ID: GW-1-061918

Lab Sample ID: 580-78310-15

Date Collected: 06/19/18 17:00

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 16:48	CJ	TAL SEA

Client Sample ID: GW-2-061918

Lab Sample ID: 580-78310-16

Date Collected: 06/19/18 16:57

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 17:09	CJ	TAL SEA

Client Sample ID: GW-20-061918

Lab Sample ID: 580-78310-17

Date Collected: 06/19/18 17:10

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 17:31	CJ	TAL SEA

Client Sample ID: EW-2A-062018

Lab Sample ID: 580-78310-18

Date Collected: 06/20/18 09:30

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 18:15	CJ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: GW-3-062018

Lab Sample ID: 580-78310-19

Date Collected: 06/20/18 09:35

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277481	06/27/18 18:37	CJ	TAL SEA
Total/NA	Prep	3510C			277357	06/26/18 08:51	SPS	TAL SEA
Total/NA	Cleanup	3630C			278466	07/09/18 15:40	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	278519	07/10/18 12:23	ERZ	TAL SEA

Client Sample ID: GW-30-062018

Lab Sample ID: 580-78310-20

Date Collected: 06/20/18 09:45

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 15:20	CJ	TAL SEA

Client Sample ID: 2A-W-41-062018

Lab Sample ID: 580-78310-21

Date Collected: 06/20/18 09:53

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Cleanup	3630C			277966	07/02/18 15:53	JCM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 11:43	CJ	TAL SEA
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 15:48	CJ	TAL SEA

Client Sample ID: 2A-W-410-062018

Lab Sample ID: 580-78310-22

Date Collected: 06/20/18 10:12

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 16:15	CJ	TAL SEA

Client Sample ID: 1B-W-3-062018

Lab Sample ID: 580-78310-23

Date Collected: 06/20/18 10:50

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 16:42	CJ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: 1B-W-23-062018

Lab Sample ID: 580-78310-24

Date Collected: 06/20/18 11:00

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 17:37	CJ	TAL SEA

Client Sample ID: GW-4-062018

Lab Sample ID: 580-78310-25

Date Collected: 06/20/18 11:27

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 18:04	CJ	TAL SEA

Client Sample ID: 2A-W-42-062018

Lab Sample ID: 580-78310-26

Date Collected: 06/20/18 12:00

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 18:32	CJ	TAL SEA

Client Sample ID: 1C-W-7-062018

Lab Sample ID: 580-78310-27

Date Collected: 06/20/18 12:25

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 18:59	CJ	TAL SEA

Client Sample ID: 1C-W-8-062018

Lab Sample ID: 580-78310-28

Date Collected: 06/20/18 12:45

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 19:27	CJ	TAL SEA

Client Sample ID: 1C-W-1-062018

Lab Sample ID: 580-78310-29

Date Collected: 06/20/18 13:00

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 19:54	CJ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Client Sample ID: MW-555-062018

Lab Sample ID: 580-78310-30

Date Collected: 06/20/18 13:30

Matrix: Water

Date Received: 06/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			277910	07/02/18 09:10	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	277995	07/03/18 20:21	CJ	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



Accreditation/Certification Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Laboratory: TestAmerica Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-18
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-05-18
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19


Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-78310-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-78310-1	2B-W-4-061918	Water	06/19/18 09:55	06/21/18 15:35
580-78310-2	MW-3-061918	Water	06/19/18 10:05	06/21/18 15:35
580-78310-3	MW-4-061918	Water	06/19/18 11:05	06/21/18 15:35
580-78310-4	2A-W-10-061918	Water	06/19/18 11:30	06/21/18 15:35
580-78310-5	5-W-18-061918	Water	06/19/18 12:50	06/21/18 15:35
580-78310-6	5-W-19-061918	Water	06/19/18 12:56	06/21/18 15:35
580-78310-7	2A-W-9-061918	Water	06/19/18 12:05	06/21/18 15:35
580-78310-8	5-W-14--061918	Water	06/19/18 14:45	06/21/18 15:35
580-78310-9	5-W-16-061918	Water	06/19/18 14:45	06/21/18 15:35
580-78310-10	5-W-17-061918	Water	06/19/18 15:02	06/21/18 15:35
580-78310-11	5-W-43-061918	Water	06/19/18 15:52	06/21/18 15:35
580-78310-12	EW-1-061918	Water	06/19/18 15:55	06/21/18 15:35
580-78310-13	5-W-15-061918	Water	06/19/18 16:00	06/21/18 15:35
580-78310-14	2A-W-40-061918	Water	06/19/18 16:59	06/21/18 15:35
580-78310-15	GW-1-061918	Water	06/19/18 17:00	06/21/18 15:35
580-78310-16	GW-2-061918	Water	06/19/18 16:57	06/21/18 15:35
580-78310-17	GW-20-061918	Water	06/19/18 17:10	06/21/18 15:35
580-78310-18	EW-2A-062018	Water	06/20/18 09:30	06/21/18 15:35
580-78310-19	GW-3-062018	Water	06/20/18 09:35	06/21/18 15:35
580-78310-20	GW-30-062018	Water	06/20/18 09:45	06/21/18 15:35
580-78310-21	2A-W-41-062018	Water	06/20/18 09:53	06/21/18 15:35
580-78310-22	2A-W-410-062018	Water	06/20/18 10:12	06/21/18 15:35
580-78310-23	1B-W-3-062018	Water	06/20/18 10:50	06/21/18 15:35
580-78310-24	1B-W-23-062018	Water	06/20/18 11:00	06/21/18 15:35
580-78310-25	GW-4-062018	Water	06/20/18 11:27	06/21/18 15:35
580-78310-26	2A-W-42-062018	Water	06/20/18 12:00	06/21/18 15:35
580-78310-27	1C-W-7-062018	Water	06/20/18 12:25	06/21/18 15:35
580-78310-28	1C-W-8-062018	Water	06/20/18 12:45	06/21/18 15:35
580-78310-29	1C-W-1-062018	Water	06/20/18 13:00	06/21/18 15:35
580-78310-30	MW-555-062018	Water	06/20/18 13:30	06/21/18 15:35

1/2

 <p>CHAIN OF CUSTODY</p>	LABORATORY INFORMATION		LAB WORK ORDER:
	Laboratory:	Project Manager:	SHIPMENT INFORMATION
	Address:	Phone:	
City/State/ZIP:	Fax:		
BNSF PROJECT INFORMATION		Project State of Origin: WA	Project Number: 683-067

BNSF Project Number: 683-067	Project City: Skykomish	Company: Farallon Consulting	Project Manager: Rob Lee
BNSF Project Name: Skykomish GWS Quarterly	BNSF Work Order No.:	Address: 975 5th AVE NW	Email: RLee@farallonconsulting.com
BNSF Contact:	BNSF Work Order No.:	City/State/ZIP: Issaquah WA 98027	Phone: 425 295 0800

TURNAROUND TIME <input type="checkbox"/> 1-day Rush <input type="checkbox"/> 2-day Rush <input type="checkbox"/> 3-day Rush <input type="checkbox"/> 5- to 8-day Rush <input checked="" type="checkbox"/> Standard 10-Day <input type="checkbox"/> Other _____	DELIVERABLES <input checked="" type="checkbox"/> BNSF Standard (Level II) <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Other Deliverables? <input type="checkbox"/> EDD Req. Format?
---	---

METHODS FOR ANALYSIS	
2 WTPH-DX	Loc: 580 78310

SAMPLE INFORMATION										COMMENTS	LAB USE
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix	X	X		
		Date	Time	Sampler							
1 2B-W-4-061918	2	6/19/18	0955	KK	N	G	W	X			
2 MW-3-061918	2		1005	AB				X			
3 MW-4-061918	2		1105	KK				X			
4 2A-W-10-061918	2		1130	AB				X			
5 5-W-18-061918	2		1250	KK				X			
6 5-W-19-061918	2		1256	AB				X			
7 2A-W-9-061918	2		1205	NT				X			
8 5-W-14-061918	2		1445	AB				X			
9 5-W-10-061918	2		1445	KK				X			
10 5-W-17-061918	2		1502	NT				X			
11 5-W-43-061918	2		1552	NT				X			
12 EW-2-061918	2		1555	KK				X			
13 5-W-15-061918	2		1600	AB				X			
14 2A-W-40-061918	2		1659	AB				X			
15 GW-1-061918	2		1700	KK				X			



Relinquished By: <i>Orin Bailey</i>	Date/Time: 6/21/18 0940	Received By: <i>[Signature]</i>	Date/Time: 6/21/18 1535	Comments and Special Analytical Requirements:	
Relinquished By:	Date/Time:	Received By:	Date/Time:		
Relinquished By:	Date/Time:	Received By:	Date/Time:		
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.	BNSF COC No.

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES DUPLICATE - CONSULTANT TAL-1001 (0912)

2/2

 CHAIN OF CUSTODY	LABORATORY INFORMATION					LAB WORK ORDER:			
	Laboratory:		Project Manager:			SHIPMENT INFORMATION			
	Address:		Phone:			Shipment Method:			
City/State/ZIP:		Fax:			Tracking Number:				
BNSF PROJECT INFORMATION			CONSULTANT INFORMATION			Project Number:			
BNSF Project Number: 683-037		Project State of Origin: WA	Company: Farallon Consulting			Project Number: 683-067			
BNSF Project Name: Skykomish GWS Quarters		Project City: Skykomish	Address: 975 9th AVE NE			Project Manager: Rob Lee +			
BNSF Contact:		BNSF Work Order No.:	City/State/ZIP: Skykomish WA 98027			Email: Rlee@farallonconsulting.com			
TURNAROUND TIME		DELIVERABLES			METHODS FOR ANALYSIS				
<input type="checkbox"/> 1-day Rush		<input checked="" type="checkbox"/> BNSF Standard (Level II)			NW TPT DX NW TPT DX W/SOC				
<input type="checkbox"/> 2-day Rush		<input type="checkbox"/> Level III							
<input type="checkbox"/> 3-day Rush		<input type="checkbox"/> Level IV							
<input type="checkbox"/> 5- to 8-day Rush		<input type="checkbox"/> EDD Req. Format?							
SAMPLE INFORMATION									
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix	COMMENTS	LAB USE
		Date	Time	Sampler					
1 GW-2-061918	2	6/19/18	1657	NT	N	G	W	X	
2 GW-20-061918	2	L	1710	NT	I	I	I	X	
3 EW-2A-062018	2	6/20/18	0930	AB				X	
4 GW-3-062018	2		0935	KK				X	X
5 LW-30-062018	2		0945	KK				X	
6 2A-W-41-062018	2		0953	NT				X	X
7 2A-W-410-062018	2		1012	NT				X	
8 1B-W-3-062018	2		1050	AB				X	
9 1B-W-23-062018	2		1100	KK				X	
10 GW-4-062018	2		1127H00	NT				X	
11 2A-W-42-062018	2		1200	AB				X	
12 1C-W-7-062018	2		1225	KK				X	
13 1C-W-8-062018	2		1245	NT				X	
14 1C-W-1-062018	2		1300	AB	I	I	I	X	
15 MW-555-062018	2		1330	AB	I	I	I	X	
Relinquished By: <i>Austin Bevel</i>	Date/Time: 6/21/18 0900	Received By: <i>[Signature]</i>	Date/Time: 6/21/18 1535	Comments and Special Analytical Requirements: SOC = silica gel cleanup					
Relinquished By:	Date/Time:	Received By:	Date/Time:						
Relinquished By:	Date/Time:	Received By:	Date/Time:						
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab Custody Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.	BNSF COC No.				

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (0912)

Therm. ID: A2 Cor: 2.2 ° Inc: 2.1 °
Cooler Desc: LyfGreen FedEx: _____
Packing: Bubble UPS: _____
Cust. Seal: Yes No _____ Lab Cour: K
Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 0.6 ° Inc: 0.5 °
Cooler Desc: LyfGreen FedEx: _____
Packing: Bubble UPS: _____
Cust. Seal: Yes No _____ Lab Cour: ✓
Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 0.6 ° Inc: 0.5 °
Cooler Desc: LyfGreen FedEx: _____
Packing: Bubble UPS: _____
Cust. Seal: Yes No _____ Lab Cour: ✓
Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 0.3 ° Inc: 0.2 °
Cooler Desc: LyfGreen FedEx: _____
Packing: Bubble UPS: _____
Cust. Seal: Yes No _____ Lab Cour: X
Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 0.6 ° Inc: 0.5 °
Cooler Desc: LyfGreen FedEx: _____
Packing: Bubble UPS: _____
Cust. Seal: Yes No _____ Lab Cour: ✓
Wet/Packs/Dry Ice/None Other: _____

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-78310-1

Login Number: 78310

List Source: TestAmerica Seattle

List Number: 1

Creator: Hobbs, Kenneth F

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-80366-1

Client Project/Site: BNSF Skykomish Semi-Annual
Sampling Event: Skykomish HCC System

For:

Farallon Consulting LLC
1809 7th Ave. Suite 1111
Seattle, Washington 98101

Attn: Rob Leet



Authorized for release by:
9/28/2018 6:10:52 PM

Kristine Allen, Manager of Project Management
(253)248-4970

kristine.allen@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

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7

8

9

10

11



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	66
Chronicle	70
Certification Summary	81
Sample Summary	82
Chain of Custody	84
Receipt Checklists	90

Case Narrative

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Job ID: 580-80366-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative 580-80366-1

Comments

No additional comments.

Receipt

The samples were received on 9/13/2018 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 12 coolers at receipt time were 0.5° C, 0.7° C, 0.8° C, 0.9° C, 1.0° C, 1.1° C, 1.5° C, 1.5° C, 1.5° C, 2.4° C, 2.8° C and 3.6° C.

GC Semi VOA

Method(s) NWTPH-Dx: Surrogate recovery for the following samples were outside control limits: S1-AU-091018 (580-80366-3) and S2-BU-091018 (580-80366-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) NWTPH-Dx: The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: S2-BD-091018 (580-80366-5).

Method(s) NWTPH-Dx: The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: 5-W-16-091118 (580-80366-18).

Method(s) NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: S4-BU-091118 (580-80366-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) NWTPH-Dx: The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: S4-CU-091118 (580-80366-22).

Method(s) NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: GW-3-091218 (580-80366-49), GW-30-091218 (580-80366-50), 1B-W-23-091218 (580-80366-51) and 2A-W-10-091218 (580-80366-54).

Method(s) NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was earlier than the typical diesel fuel pattern used by the laboratory for quantitative purposes: 2A-W-41-091218 (580-80366-52) and 2A-W-410-091218 (580-80366-53).

Method(s) NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: MW-30-091218 (580-80366-58). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S1-AD-091018

Lab Sample ID: 580-80366-1

Date Collected: 09/10/18 16:12

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/20/18 22:19	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/20/18 22:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		50 - 150				09/19/18 07:41	09/20/18 22:19	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S1-BU-091018

Lab Sample ID: 580-80366-2

Date Collected: 09/10/18 16:15

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/20/18 22:41	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		09/19/18 07:41	09/20/18 22:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		50 - 150				09/19/18 07:41	09/20/18 22:41	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S1-AU-091018

Lab Sample ID: 580-80366-3

Date Collected: 09/10/18 16:20

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/20/18 23:03	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/20/18 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	6	X	50 - 150				09/19/18 07:41	09/20/18 23:03	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S1-BD-091018

Lab Sample ID: 580-80366-4

Date Collected: 09/10/18 16:25

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/20/18 23:26	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		09/19/18 07:41	09/20/18 23:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		50 - 150				09/19/18 07:41	09/20/18 23:26	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S2-BD-091018

Lab Sample ID: 580-80366-5

Date Collected: 09/10/18 16:55

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.42		0.062	0.062	mg/L		09/19/18 07:41	09/20/18 23:48	1
Motor Oil (>C24-C36)	0.14		0.091	0.091	mg/L		09/19/18 07:41	09/20/18 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	103		50 - 150				09/19/18 07:41	09/20/18 23:48	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S2-AD-091018

Lab Sample ID: 580-80366-6

Date Collected: 09/10/18 16:55

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 00:10	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		09/19/18 07:41	09/21/18 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		50 - 150				09/19/18 07:41	09/21/18 00:10	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S2-AU-091018

Lab Sample ID: 580-80366-7

Date Collected: 09/10/18 17:00

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 00:33	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		09/19/18 07:41	09/21/18 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		50 - 150				09/19/18 07:41	09/21/18 00:33	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S2-BU-091018

Lab Sample ID: 580-80366-8

Date Collected: 09/10/18 17:10

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 01:17	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	10	X	50 - 150				09/19/18 07:41	09/21/18 01:17	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S3-AD-091118

Lab Sample ID: 580-80366-9

Date Collected: 09/11/18 09:42

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 01:39	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		50 - 150				09/19/18 07:41	09/21/18 01:39	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S3-BU-091118

Lab Sample ID: 580-80366-10

Date Collected: 09/11/18 09:44

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 02:02	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		50 - 150				09/19/18 07:41	09/21/18 02:02	1

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- 10
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S3-AU-091118

Lab Sample ID: 580-80366-11

Date Collected: 09/11/18 09:48

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 02:24	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		50 - 150				09/19/18 07:41	09/21/18 02:24	1

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- 10
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S3-BD-091118

Lab Sample ID: 580-80366-12

Date Collected: 09/11/18 09:55

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 02:46	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		09/19/18 07:41	09/21/18 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		50 - 150				09/19/18 07:41	09/21/18 02:46	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S3-CD-091118

Lab Sample ID: 580-80366-13

Date Collected: 09/11/18 10:22

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 03:08	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		50 - 150				09/19/18 07:41	09/21/18 03:08	1

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- 10
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S3-CU-091118

Lab Sample ID: 580-80366-14

Date Collected: 09/11/18 10:30

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 03:30	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		50 - 150				09/19/18 07:41	09/21/18 03:30	1

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- 10
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S4-AU-091118

Lab Sample ID: 580-80366-15

Date Collected: 09/11/18 10:35

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 03:53	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	83		50 - 150				09/19/18 07:41	09/21/18 03:53	1

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- 10
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S4-AD-091118

Lab Sample ID: 580-80366-16

Date Collected: 09/11/18 10:45

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 04:15	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		50 - 150				09/19/18 07:41	09/21/18 04:15	1

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- 7
- 8
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- 10
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-17-091118

Lab Sample ID: 580-80366-17

Date Collected: 09/11/18 12:30

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 04:36	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		50 - 150				09/19/18 07:41	09/21/18 04:36	1

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- 10
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-16-091118

Lab Sample ID: 580-80366-18

Date Collected: 09/11/18 12:30

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.12		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 18:41	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	90		50 - 150				09/19/18 07:41	09/21/18 18:41	1

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- 7
- 8
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- 10
- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S4-BU-091118

Lab Sample ID: 580-80366-19

Date Collected: 09/11/18 11:05

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 19:02	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	47	X	50 - 150				09/19/18 07:41	09/21/18 19:02	1

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- 4
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- 8
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- 10
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S4-CD-091118

Lab Sample ID: 580-80366-20

Date Collected: 09/11/18 11:10

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/19/18 07:41	09/21/18 19:24	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/19/18 07:41	09/21/18 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	87		50 - 150				09/19/18 07:41	09/21/18 19:24	1

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- 2
- 3
- 4
- 5
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- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S4-BD-091118

Lab Sample ID: 580-80366-21

Date Collected: 09/11/18 11:15

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 02:46	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		50 - 150				09/25/18 07:32	09/26/18 02:46	1

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- 3
- 4
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- 8
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- 10
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S4-CU-091118

Lab Sample ID: 580-80366-22

Date Collected: 09/11/18 11:18

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.18		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 03:13	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		50 - 150				09/25/18 07:32	09/26/18 03:13	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-19-091118

Lab Sample ID: 580-80366-23

Date Collected: 09/11/18 14:25

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 03:41	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		09/25/18 07:32	09/26/18 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		50 - 150				09/25/18 07:32	09/26/18 03:41	1

- 1
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- 3
- 4
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- 10
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-18-091118

Lab Sample ID: 580-80366-24

Date Collected: 09/11/18 14:30

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 04:08	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		50 - 150				09/25/18 07:32	09/26/18 04:08	1

- 1
- 2
- 3
- 4
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-180-091118

Lab Sample ID: 580-80366-25

Date Collected: 09/11/18 14:35

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 05:02	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		50 - 150				09/25/18 07:32	09/26/18 05:02	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-56-091118

Lab Sample ID: 580-80366-26

Date Collected: 09/11/18 16:15

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.67		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 05:29	1
Motor Oil (>C24-C36)	0.62		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 05:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	56		50 - 150				09/25/18 07:32	09/26/18 05:29	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: GW-4-091118

Lab Sample ID: 580-80366-27

Date Collected: 09/11/18 12:15

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		09/25/18 07:32	09/26/18 05:57	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 05:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		50 - 150				09/25/18 07:32	09/26/18 05:57	1

- 1
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: EW-2A-091118

Lab Sample ID: 580-80366-28

Date Collected: 09/11/18 12:32

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 06:24	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 06:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		50 - 150				09/25/18 07:32	09/26/18 06:24	1

- 1
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 1C-W-1-091118

Lab Sample ID: 580-80366-29

Date Collected: 09/11/18 14:25

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 06:51	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 06:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		50 - 150				09/25/18 07:32	09/26/18 06:51	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 1C-W-8-091118

Lab Sample ID: 580-80366-30

Date Collected: 09/11/18 14:42

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		09/25/18 07:32	09/26/18 07:18	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 07:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		50 - 150				09/25/18 07:32	09/26/18 07:18	1

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- 10
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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 1C-W-3-091118

Lab Sample ID: 580-80366-31

Date Collected: 09/11/18 15:35

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 07:45	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 07:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		50 - 150				09/25/18 07:32	09/26/18 07:45	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 1C-W-4-091118

Lab Sample ID: 580-80366-32

Date Collected: 09/11/18 15:39

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 08:12	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 08:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		50 - 150				09/25/18 07:32	09/26/18 08:12	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 2A-W-42-091118

Lab Sample ID: 580-80366-33

Date Collected: 09/11/18 16:45

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 08:39	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 08:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		50 - 150				09/25/18 07:32	09/26/18 08:39	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 1C-W-7-091118

Lab Sample ID: 580-80366-34

Date Collected: 09/11/18 16:50

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 09:07	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 09:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		50 - 150				09/25/18 07:32	09/26/18 09:07	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-55-091118

Lab Sample ID: 580-80366-35

Date Collected: 09/11/18 17:20

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 10:02	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 10:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	68		50 - 150				09/25/18 07:32	09/26/18 10:02	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-14-091218

Lab Sample ID: 580-80366-36

Date Collected: 09/12/18 09:00

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		09/25/18 07:32	09/26/18 10:29	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 10:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		50 - 150				09/25/18 07:32	09/26/18 10:29	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-51-091218

Lab Sample ID: 580-80366-37

Date Collected: 09/12/18 09:10

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.66		0.062	0.062	mg/L		09/25/18 07:32	09/26/18 10:57	1
Motor Oil (>C24-C36)	0.60		0.091	0.091	mg/L		09/25/18 07:32	09/26/18 10:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	56		50 - 150				09/25/18 07:32	09/26/18 10:57	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: EW-1-091218

Lab Sample ID: 580-80366-38

Date Collected: 09/12/18 10:05

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		09/25/18 11:24	09/26/18 00:37	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 00:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		50 - 150				09/25/18 11:24	09/26/18 00:37	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: MW-38R-091218

Lab Sample ID: 580-80366-39

Date Collected: 09/12/18 10:15

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 00:57	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		50 - 150				09/25/18 11:24	09/26/18 00:57	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: EW-10-091218

Lab Sample ID: 580-80366-40

Date Collected: 09/12/18 10:15

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 01:17	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		50 - 150				09/25/18 11:24	09/26/18 01:17	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-43-091218

Lab Sample ID: 580-80366-41

Date Collected: 09/12/18 11:25

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 09:55	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 09:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		50 - 150				09/25/18 11:24	09/26/18 09:55	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: GW-1-091218

Lab Sample ID: 580-80366-42

Date Collected: 09/12/18 11:35

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 10:15	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 10:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	91		50 - 150				09/25/18 11:24	09/26/18 10:15	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: GW-2-091218

Lab Sample ID: 580-80366-43

Date Collected: 09/12/18 12:30

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 10:35	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 10:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	95		50 - 150				09/25/18 11:24	09/26/18 10:35	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: GW-20-091218

Lab Sample ID: 580-80366-44

Date Collected: 09/12/18 12:50

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 10:55	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 10:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	97		50 - 150				09/25/18 11:24	09/26/18 10:55	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 2A-W-40-091218

Lab Sample ID: 580-80366-45

Date Collected: 09/12/18 12:40

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/28/18 14:21	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/28/18 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		50 - 150				09/25/18 11:24	09/28/18 14:21	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 1A-W-4-091218

Lab Sample ID: 580-80366-46

Date Collected: 09/12/18 12:15

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 11:55	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 11:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	100		50 - 150				09/25/18 11:24	09/26/18 11:55	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 1B-W-2-091218

Lab Sample ID: 580-80366-47

Date Collected: 09/12/18 09:00

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.064	0.064	mg/L		09/25/18 11:24	09/26/18 12:16	1
Motor Oil (>C24-C36)	ND		0.095	0.095	mg/L		09/25/18 11:24	09/26/18 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		50 - 150				09/25/18 11:24	09/26/18 12:16	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 1B-W-3-091218

Lab Sample ID: 580-80366-48

Date Collected: 09/12/18 09:10

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 12:36	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	87		50 - 150				09/25/18 11:24	09/26/18 12:36	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: GW-3-091218

Lab Sample ID: 580-80366-49

Date Collected: 09/12/18 10:19

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.26		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 12:56	1
Motor Oil (>C24-C36)	0.14		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	84		50 - 150				09/25/18 11:24	09/26/18 12:56	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/27/18 05:27	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/27/18 05:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		50 - 150				09/25/18 11:24	09/27/18 05:27	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: GW-30-091218

Lab Sample ID: 580-80366-50

Date Collected: 09/12/18 10:45

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.21		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 13:16	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		50 - 150				09/25/18 11:24	09/26/18 13:16	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 1B-W-23-091218

Lab Sample ID: 580-80366-51

Date Collected: 09/12/18 10:50

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.070		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 13:36	1
Motor Oil (>C24-C36)	0.12		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		50 - 150				09/25/18 11:24	09/26/18 13:36	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 2A-W-41-091218

Lab Sample ID: 580-80366-52

Date Collected: 09/12/18 12:04

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.46		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 13:56	1
Motor Oil (>C24-C36)	0.21		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	79		50 - 150				09/25/18 11:24	09/26/18 13:56	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.12		0.062	0.062	mg/L		09/25/18 11:24	09/27/18 05:54	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/27/18 05:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	74		50 - 150				09/25/18 11:24	09/27/18 05:54	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 2A-W-410-091218

Lab Sample ID: 580-80366-53

Date Collected: 09/12/18 12:35

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.63		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 14:16	1
Motor Oil (>C24-C36)	0.28		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	83		50 - 150				09/25/18 11:24	09/26/18 14:16	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 2A-W-10-091218

Lab Sample ID: 580-80366-54

Date Collected: 09/12/18 14:40

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.075		0.062	0.062	mg/L		09/25/18 11:24	09/26/18 14:37	1
Motor Oil (>C24-C36)	0.19		0.091	0.091	mg/L		09/25/18 11:24	09/26/18 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		50 - 150				09/25/18 11:24	09/26/18 14:37	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 2A-W-9-091218

Lab Sample ID: 580-80366-55

Date Collected: 09/12/18 14:40

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.10		0.062	0.062	mg/L		09/25/18 11:24	09/27/18 02:42	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/27/18 02:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		50 - 150				09/25/18 11:24	09/27/18 02:42	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: MW-555-091218

Lab Sample ID: 580-80366-56

Date Collected: 09/12/18 15:15

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/27/18 03:09	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/27/18 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	71		50 - 150				09/25/18 11:24	09/27/18 03:09	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: MW-3-091218

Lab Sample ID: 580-80366-57

Date Collected: 09/12/18 14:15

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.063		0.062	0.062	mg/L		09/25/18 11:24	09/27/18 03:37	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/27/18 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	67		50 - 150				09/25/18 11:24	09/27/18 03:37	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 11:24	09/27/18 06:21	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 11:24	09/27/18 06:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	68		50 - 150				09/25/18 11:24	09/27/18 06:21	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: MW-30-091218

Lab Sample ID: 580-80366-58

Date Collected: 09/12/18 14:20

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		09/25/18 13:44	09/26/18 23:28	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		09/25/18 13:44	09/26/18 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	3	X	50 - 150				09/25/18 13:44	09/26/18 23:28	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: MW-4-091218

Lab Sample ID: 580-80366-59

Date Collected: 09/12/18 14:34

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 13:44	09/26/18 23:56	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 13:44	09/26/18 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		50 - 150				09/25/18 13:44	09/26/18 23:56	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 2B-W-4-091218

Lab Sample ID: 580-80366-60

Date Collected: 09/12/18 15:40

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 13:44	09/27/18 00:23	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 13:44	09/27/18 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		50 - 150				09/25/18 13:44	09/27/18 00:23	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: MW-16-091218

Lab Sample ID: 580-80366-61

Date Collected: 09/12/18 15:51

Matrix: Water

Date Received: 09/13/18 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/25/18 13:44	09/27/18 00:51	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/25/18 13:44	09/27/18 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		50 - 150				09/25/18 13:44	09/27/18 00:51	1

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QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-284302/1-A

Matrix: Water

Analysis Batch: 284530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 284302

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		09/19/18 07:41	09/20/18 21:12	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		09/19/18 07:41	09/20/18 21:12	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	87		50 - 150	09/19/18 07:41	09/20/18 21:12	1

Lab Sample ID: LCS 580-284302/2-A

Matrix: Water

Analysis Batch: 284530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 284302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Motor Oil (>C24-C36)	0.500	0.489		mg/L		98	64 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	109		50 - 150

Lab Sample ID: LCSD 580-284302/3-A

Matrix: Water

Analysis Batch: 284530

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 284302

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Motor Oil (>C24-C36)	0.500	0.521		mg/L		104	64 - 120	6	24

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	99		50 - 150

Lab Sample ID: MB 580-284824/1-A

Matrix: Water

Analysis Batch: 284904

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 284824

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		09/25/18 07:32	09/26/18 00:02	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		09/25/18 07:32	09/26/18 00:02	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	72		50 - 150	09/25/18 07:32	09/26/18 00:02	1

Lab Sample ID: LCS 580-284824/2-A

Matrix: Water

Analysis Batch: 284904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 284824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Motor Oil (>C24-C36)	0.500	0.433		mg/L		87	64 - 120

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-284824/2-A
Matrix: Water
Analysis Batch: 284904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284824

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	79		50 - 150

Lab Sample ID: LCSD 580-284824/3-A
Matrix: Water
Analysis Batch: 284904

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 284824

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.363		mg/L		73	50 - 120	1	26
Motor Oil (>C24-C36)	0.500	0.443		mg/L		89	64 - 120	2	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	85		50 - 150

Lab Sample ID: MB 580-284849/1-A
Matrix: Water
Analysis Batch: 284907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		09/25/18 11:24	09/25/18 23:37	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		09/25/18 11:24	09/25/18 23:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	102		50 - 150	09/25/18 11:24	09/25/18 23:37	1

Lab Sample ID: MB 580-284849/1-A
Matrix: Water
Analysis Batch: 284948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		09/25/18 11:24	09/27/18 02:14	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		09/25/18 11:24	09/27/18 02:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	86		50 - 150	09/25/18 11:24	09/27/18 02:14	1

Lab Sample ID: MB 580-284849/1-B
Matrix: Water
Analysis Batch: 284948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		09/25/18 11:24	09/27/18 04:05	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		09/25/18 11:24	09/27/18 04:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	88		50 - 150	09/25/18 11:24	09/27/18 04:05	1

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-284849/2-A
Matrix: Water
Analysis Batch: 284907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.375		mg/L		75	50 - 120
Motor Oil (>C24-C36)	0.500	0.460		mg/L		92	64 - 120
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
<i>o-Terphenyl</i>	89		50 - 150				

Lab Sample ID: LCS 580-284849/2-B
Matrix: Water
Analysis Batch: 284948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.380		mg/L		76	50 - 120
Motor Oil (>C24-C36)	0.500	0.497		mg/L		99	64 - 120
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
<i>o-Terphenyl</i>	96		50 - 150				

Lab Sample ID: LCSD 580-284849/3-A
Matrix: Water
Analysis Batch: 284907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 284849

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.380		mg/L		76	50 - 120	1	26
Motor Oil (>C24-C36)	0.500	0.465		mg/L		93	64 - 120	1	24
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
<i>o-Terphenyl</i>	84		50 - 150						

Lab Sample ID: LCSD 580-284849/3-B
Matrix: Water
Analysis Batch: 284948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 284849

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.381		mg/L		76	50 - 120	0	26
Motor Oil (>C24-C36)	0.500	0.502		mg/L		100	64 - 120	1	24
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
<i>o-Terphenyl</i>	89		50 - 150						

Lab Sample ID: MB 580-284874/1-A
Matrix: Water
Analysis Batch: 284948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		09/25/18 13:44	09/26/18 20:15	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		09/25/18 13:44	09/26/18 20:15	1

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-284874/1-A
Matrix: Water
Analysis Batch: 284948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284874

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	75		50 - 150	09/25/18 13:44	09/26/18 20:15	1

Lab Sample ID: LCS 580-284874/2-A
Matrix: Water
Analysis Batch: 284948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							LCS	LCS
#2 Diesel (C10-C24)	0.500	0.321		mg/L		64	50 - 120	
Motor Oil (>C24-C36)	0.500	0.402		mg/L		80	64 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	79		50 - 150

Lab Sample ID: LCSD 580-284874/3-A
Matrix: Water
Analysis Batch: 284948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 284874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. RPD		Limit
							LCSD	LCSD	
#2 Diesel (C10-C24)	0.500	0.358		mg/L		72	50 - 120	11	26
Motor Oil (>C24-C36)	0.500	0.466		mg/L		93	64 - 120	15	24

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	84		50 - 150

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S1-AD-091018

Date Collected: 09/10/18 16:12

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/20/18 22:19	W1T	TAL SEA

Client Sample ID: S1-BU-091018

Date Collected: 09/10/18 16:15

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/20/18 22:41	W1T	TAL SEA

Client Sample ID: S1-AU-091018

Date Collected: 09/10/18 16:20

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/20/18 23:03	W1T	TAL SEA

Client Sample ID: S1-BD-091018

Date Collected: 09/10/18 16:25

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/20/18 23:26	W1T	TAL SEA

Client Sample ID: S2-BD-091018

Date Collected: 09/10/18 16:55

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/20/18 23:48	W1T	TAL SEA

Client Sample ID: S2-AD-091018

Date Collected: 09/10/18 16:55

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 00:10	W1T	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S2-AU-091018

Date Collected: 09/10/18 17:00

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 00:33	W1T	TAL SEA

Client Sample ID: S2-BU-091018

Date Collected: 09/10/18 17:10

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 01:17	W1T	TAL SEA

Client Sample ID: S3-AD-091118

Date Collected: 09/11/18 09:42

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 01:39	W1T	TAL SEA

Client Sample ID: S3-BU-091118

Date Collected: 09/11/18 09:44

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 02:02	W1T	TAL SEA

Client Sample ID: S3-AU-091118

Date Collected: 09/11/18 09:48

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 02:24	W1T	TAL SEA

Client Sample ID: S3-BD-091118

Date Collected: 09/11/18 09:55

Date Received: 09/13/18 14:30

Lab Sample ID: 580-80366-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 02:46	W1T	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S3-CD-091118

Lab Sample ID: 580-80366-13

Date Collected: 09/11/18 10:22

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 03:08	W1T	TAL SEA

Client Sample ID: S3-CU-091118

Lab Sample ID: 580-80366-14

Date Collected: 09/11/18 10:30

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 03:30	W1T	TAL SEA

Client Sample ID: S4-AU-091118

Lab Sample ID: 580-80366-15

Date Collected: 09/11/18 10:35

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 03:53	W1T	TAL SEA

Client Sample ID: S4-AD-091118

Lab Sample ID: 580-80366-16

Date Collected: 09/11/18 10:45

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 04:15	W1T	TAL SEA

Client Sample ID: 5-W-17-091118

Lab Sample ID: 580-80366-17

Date Collected: 09/11/18 12:30

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284530	09/21/18 04:36	W1T	TAL SEA

Client Sample ID: 5-W-16-091118

Lab Sample ID: 580-80366-18

Date Collected: 09/11/18 12:30

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284608	09/21/18 18:41	W1T	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: S4-BU-091118

Lab Sample ID: 580-80366-19

Date Collected: 09/11/18 11:05

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284608	09/21/18 19:02	W1T	TAL SEA

Client Sample ID: S4-CD-091118

Lab Sample ID: 580-80366-20

Date Collected: 09/11/18 11:10

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284302	09/19/18 07:41	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284608	09/21/18 19:24	W1T	TAL SEA

Client Sample ID: S4-BD-091118

Lab Sample ID: 580-80366-21

Date Collected: 09/11/18 11:15

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 02:46	JCM	TAL SEA

Client Sample ID: S4-CU-091118

Lab Sample ID: 580-80366-22

Date Collected: 09/11/18 11:18

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 03:13	JCM	TAL SEA

Client Sample ID: 5-W-19-091118

Lab Sample ID: 580-80366-23

Date Collected: 09/11/18 14:25

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 03:41	JCM	TAL SEA

Client Sample ID: 5-W-18-091118

Lab Sample ID: 580-80366-24

Date Collected: 09/11/18 14:30

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 04:08	JCM	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-180-091118

Lab Sample ID: 580-80366-25

Date Collected: 09/11/18 14:35

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 05:02	JCM	TAL SEA

Client Sample ID: 5-W-56-091118

Lab Sample ID: 580-80366-26

Date Collected: 09/11/18 16:15

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 05:29	JCM	TAL SEA

Client Sample ID: GW-4-091118

Lab Sample ID: 580-80366-27

Date Collected: 09/11/18 12:15

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 05:57	JCM	TAL SEA

Client Sample ID: EW-2A-091118

Lab Sample ID: 580-80366-28

Date Collected: 09/11/18 12:32

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 06:24	JCM	TAL SEA

Client Sample ID: 1C-W-1-091118

Lab Sample ID: 580-80366-29

Date Collected: 09/11/18 14:25

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 06:51	JCM	TAL SEA

Client Sample ID: 1C-W-8-091118

Lab Sample ID: 580-80366-30

Date Collected: 09/11/18 14:42

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 07:18	JCM	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 1C-W-3-091118

Lab Sample ID: 580-80366-31

Date Collected: 09/11/18 15:35

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 07:45	JCM	TAL SEA

Client Sample ID: 1C-W-4-091118

Lab Sample ID: 580-80366-32

Date Collected: 09/11/18 15:39

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 08:12	JCM	TAL SEA

Client Sample ID: 2A-W-42-091118

Lab Sample ID: 580-80366-33

Date Collected: 09/11/18 16:45

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 08:39	JCM	TAL SEA

Client Sample ID: 1C-W-7-091118

Lab Sample ID: 580-80366-34

Date Collected: 09/11/18 16:50

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 09:07	JCM	TAL SEA

Client Sample ID: 5-W-55-091118

Lab Sample ID: 580-80366-35

Date Collected: 09/11/18 17:20

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 10:02	JCM	TAL SEA

Client Sample ID: 5-W-14-091218

Lab Sample ID: 580-80366-36

Date Collected: 09/12/18 09:00

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 10:29	JCM	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 5-W-51-091218

Lab Sample ID: 580-80366-37

Date Collected: 09/12/18 09:10

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284824	09/25/18 07:32	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284904	09/26/18 10:57	JCM	TAL SEA

Client Sample ID: EW-1-091218

Lab Sample ID: 580-80366-38

Date Collected: 09/12/18 10:05

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 00:37	W1T	TAL SEA

Client Sample ID: MW-38R-091218

Lab Sample ID: 580-80366-39

Date Collected: 09/12/18 10:15

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 00:57	W1T	TAL SEA

Client Sample ID: EW-10-091218

Lab Sample ID: 580-80366-40

Date Collected: 09/12/18 10:15

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 01:17	W1T	TAL SEA

Client Sample ID: 5-W-43-091218

Lab Sample ID: 580-80366-41

Date Collected: 09/12/18 11:25

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 09:55	W1T	TAL SEA

Client Sample ID: GW-1-091218

Lab Sample ID: 580-80366-42

Date Collected: 09/12/18 11:35

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 10:15	W1T	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: GW-2-091218

Lab Sample ID: 580-80366-43

Date Collected: 09/12/18 12:30

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 10:35	W1T	TAL SEA

Client Sample ID: GW-20-091218

Lab Sample ID: 580-80366-44

Date Collected: 09/12/18 12:50

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 10:55	W1T	TAL SEA

Client Sample ID: 2A-W-40-091218

Lab Sample ID: 580-80366-45

Date Collected: 09/12/18 12:40

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	285168	09/28/18 14:21	ERZ	TAL SEA

Client Sample ID: 1A-W-4-091218

Lab Sample ID: 580-80366-46

Date Collected: 09/12/18 12:15

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 11:55	W1T	TAL SEA

Client Sample ID: 1B-W-2-091218

Lab Sample ID: 580-80366-47

Date Collected: 09/12/18 09:00

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 12:16	W1T	TAL SEA

Client Sample ID: 1B-W-3-091218

Lab Sample ID: 580-80366-48

Date Collected: 09/12/18 09:10

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 12:36	W1T	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: GW-3-091218

Lab Sample ID: 580-80366-49

Date Collected: 09/12/18 10:19

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Cleanup	3630C			284901	09/25/18 19:25	JCM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284948	09/27/18 05:27	CJ	TAL SEA
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 12:56	W1T	TAL SEA

Client Sample ID: GW-30-091218

Lab Sample ID: 580-80366-50

Date Collected: 09/12/18 10:45

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 13:16	W1T	TAL SEA

Client Sample ID: 1B-W-23-091218

Lab Sample ID: 580-80366-51

Date Collected: 09/12/18 10:50

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 13:36	W1T	TAL SEA

Client Sample ID: 2A-W-41-091218

Lab Sample ID: 580-80366-52

Date Collected: 09/12/18 12:04

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Cleanup	3630C			284901	09/25/18 19:25	JCM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284948	09/27/18 05:54	CJ	TAL SEA
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 13:56	W1T	TAL SEA

Client Sample ID: 2A-W-410-091218

Lab Sample ID: 580-80366-53

Date Collected: 09/12/18 12:35

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 14:16	W1T	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: 2A-W-10-091218

Lab Sample ID: 580-80366-54

Date Collected: 09/12/18 14:40

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284907	09/26/18 14:37	W1T	TAL SEA

Client Sample ID: 2A-W-9-091218

Lab Sample ID: 580-80366-55

Date Collected: 09/12/18 14:40

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284948	09/27/18 02:42	CJ	TAL SEA

Client Sample ID: MW-555-091218

Lab Sample ID: 580-80366-56

Date Collected: 09/12/18 15:15

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284948	09/27/18 03:09	CJ	TAL SEA

Client Sample ID: MW-3-091218

Lab Sample ID: 580-80366-57

Date Collected: 09/12/18 14:15

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284948	09/27/18 03:37	CJ	TAL SEA
Total/NA	Prep	3510C			284849	09/25/18 11:24	KS	TAL SEA
Total/NA	Cleanup	3630C			284901	09/25/18 19:25	JCM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284948	09/27/18 06:21	CJ	TAL SEA

Client Sample ID: MW-30-091218

Lab Sample ID: 580-80366-58

Date Collected: 09/12/18 14:20

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284874	09/25/18 13:44	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284948	09/26/18 23:28	CJ	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Client Sample ID: MW-4-091218

Lab Sample ID: 580-80366-59

Date Collected: 09/12/18 14:34

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284874	09/25/18 13:44	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284948	09/26/18 23:56	CJ	TAL SEA

Client Sample ID: 2B-W-4-091218

Lab Sample ID: 580-80366-60

Date Collected: 09/12/18 15:40

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284874	09/25/18 13:44	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284948	09/27/18 00:23	CJ	TAL SEA

Client Sample ID: MW-16-091218

Lab Sample ID: 580-80366-61

Date Collected: 09/12/18 15:51

Matrix: Water

Date Received: 09/13/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			284874	09/25/18 13:44	KS	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	284948	09/27/18 00:51	CJ	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Laboratory: TestAmerica Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-18
Montana (UST)	State Program	8	N/A	04-30-20
Nevada	State Program	9	WA000502019-1	07-31-19
Oregon	NELAP	10	WA100007	11-05-18
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-80366-1	S1-AD-091018	Water	09/10/18 16:12	09/13/18 14:30
580-80366-2	S1-BU-091018	Water	09/10/18 16:15	09/13/18 14:30
580-80366-3	S1-AU-091018	Water	09/10/18 16:20	09/13/18 14:30
580-80366-4	S1-BD-091018	Water	09/10/18 16:25	09/13/18 14:30
580-80366-5	S2-BD-091018	Water	09/10/18 16:55	09/13/18 14:30
580-80366-6	S2-AD-091018	Water	09/10/18 16:55	09/13/18 14:30
580-80366-7	S2-AU-091018	Water	09/10/18 17:00	09/13/18 14:30
580-80366-8	S2-BU-091018	Water	09/10/18 17:10	09/13/18 14:30
580-80366-9	S3-AD-091118	Water	09/11/18 09:42	09/13/18 14:30
580-80366-10	S3-BU-091118	Water	09/11/18 09:44	09/13/18 14:30
580-80366-11	S3-AU-091118	Water	09/11/18 09:48	09/13/18 14:30
580-80366-12	S3-BD-091118	Water	09/11/18 09:55	09/13/18 14:30
580-80366-13	S3-CD-091118	Water	09/11/18 10:22	09/13/18 14:30
580-80366-14	S3-CU-091118	Water	09/11/18 10:30	09/13/18 14:30
580-80366-15	S4-AU-091118	Water	09/11/18 10:35	09/13/18 14:30
580-80366-16	S4-AD-091118	Water	09/11/18 10:45	09/13/18 14:30
580-80366-17	5-W-17-091118	Water	09/11/18 12:30	09/13/18 14:30
580-80366-18	5-W-16-091118	Water	09/11/18 12:30	09/13/18 14:30
580-80366-19	S4-BU-091118	Water	09/11/18 11:05	09/13/18 14:30
580-80366-20	S4-CD-091118	Water	09/11/18 11:10	09/13/18 14:30
580-80366-21	S4-BD-091118	Water	09/11/18 11:15	09/13/18 14:30
580-80366-22	S4-CU-091118	Water	09/11/18 11:18	09/13/18 14:30
580-80366-23	5-W-19-091118	Water	09/11/18 14:25	09/13/18 14:30
580-80366-24	5-W-18-091118	Water	09/11/18 14:30	09/13/18 14:30
580-80366-25	5-W-180-091118	Water	09/11/18 14:35	09/13/18 14:30
580-80366-26	5-W-56-091118	Water	09/11/18 16:15	09/13/18 14:30
580-80366-27	GW-4-091118	Water	09/11/18 12:15	09/13/18 14:30
580-80366-28	EW-2A-091118	Water	09/11/18 12:32	09/13/18 14:30
580-80366-29	1C-W-1-091118	Water	09/11/18 14:25	09/13/18 14:30
580-80366-30	1C-W-8-091118	Water	09/11/18 14:42	09/13/18 14:30
580-80366-31	1C-W-3-091118	Water	09/11/18 15:35	09/13/18 14:30
580-80366-32	1C-W-4-091118	Water	09/11/18 15:39	09/13/18 14:30
580-80366-33	2A-W-42-091118	Water	09/11/18 16:45	09/13/18 14:30
580-80366-34	1C-W-7-091118	Water	09/11/18 16:50	09/13/18 14:30
580-80366-35	5-W-55-091118	Water	09/11/18 17:20	09/13/18 14:30
580-80366-36	5-W-14-091218	Water	09/12/18 09:00	09/13/18 14:30
580-80366-37	5-W-51-091218	Water	09/12/18 09:10	09/13/18 14:30
580-80366-38	EW-1-091218	Water	09/12/18 10:05	09/13/18 14:30
580-80366-39	MW-38R-091218	Water	09/12/18 10:15	09/13/18 14:30
580-80366-40	EW-10-091218	Water	09/12/18 10:15	09/13/18 14:30
580-80366-41	5-W-43-091218	Water	09/12/18 11:25	09/13/18 14:30
580-80366-42	GW-1-091218	Water	09/12/18 11:35	09/13/18 14:30
580-80366-43	GW-2-091218	Water	09/12/18 12:30	09/13/18 14:30
580-80366-44	GW-20-091218	Water	09/12/18 12:50	09/13/18 14:30
580-80366-45	2A-W-40-091218	Water	09/12/18 12:40	09/13/18 14:30
580-80366-46	1A-W-4-091218	Water	09/12/18 12:15	09/13/18 14:30
580-80366-47	1B-W-2-091218	Water	09/12/18 09:00	09/13/18 14:30
580-80366-48	1B-W-3-091218	Water	09/12/18 09:10	09/13/18 14:30
580-80366-49	GW-3-091218	Water	09/12/18 10:19	09/13/18 14:30
580-80366-50	GW-30-091218	Water	09/12/18 10:45	09/13/18 14:30
580-80366-51	1B-W-23-091218	Water	09/12/18 10:50	09/13/18 14:30
580-80366-52	2A-W-41-091218	Water	09/12/18 12:04	09/13/18 14:30
580-80366-53	2A-W-410-091218	Water	09/12/18 12:35	09/13/18 14:30

TestAmerica Seattle

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Semi-Annual

TestAmerica Job ID: 580-80366-1

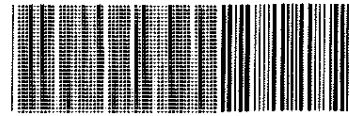
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-80366-54	2A-W-10-091218	Water	09/12/18 14:40	09/13/18 14:30
580-80366-55	2A-W-9-091218	Water	09/12/18 14:40	09/13/18 14:30
580-80366-56	MW-555-091218	Water	09/12/18 15:15	09/13/18 14:30
580-80366-57	MW-3-091218	Water	09/12/18 14:15	09/13/18 14:30
580-80366-58	MW-30-091218	Water	09/12/18 14:20	09/13/18 14:30
580-80366-59	MW-4-091218	Water	09/12/18 14:34	09/13/18 14:30
580-80366-60	2B-W-4-091218	Water	09/12/18 15:40	09/13/18 14:30
580-80366-61	MW-16-091218	Water	09/12/18 15:51	09/13/18 14:30



Loc: 580
80366

1/5

 CHAIN OF CUSTODY		LABORATORY INFORMATION			LAB WORK ORDER:																																																																																
		Project Manager:			SHIPMENT INFORMATION																																																																																
Laboratory:		Phone:			Shipment Method:																																																																																
Address:		Fax:			Tracking Number:																																																																																
City/State/ZIP:																																																																																					
BNSF PROJECT INFORMATION			CONSULTANT INFORMATION																																																																																		
Project State of Origin: <u>WA</u>			Project Number: <u>683-067</u>																																																																																		
BNSF Project Number: <u>683-067</u>			Company: <u>Favalon Consulting</u>																																																																																		
Project City: <u>Skykomish</u>			Project Manager: <u>Rob Leet</u>																																																																																		
BNSF Project Name: <u>Skykomish Semi - Annual</u>			Address: <u>975 5th AVE NW</u>																																																																																		
BNSF Contact: <u>1</u>			City/State/ZIP: <u>Issaquah WA</u>																																																																																		
BNSF Work Order No.: <u>10100-012</u>			Email: <u>RLeet@favalonconsulting.com</u>																																																																																		
TURNAROUND TIME		DELIVERABLES		METHODS FOR ANALYSIS																																																																																	
<input type="checkbox"/> 1-day Rush <input type="checkbox"/> 2-day Rush <input type="checkbox"/> 3-day Rush <input type="checkbox"/> 5- to 8-day Rush <input checked="" type="checkbox"/> Standard 10-Day <input type="checkbox"/> Other _____		<input checked="" type="checkbox"/> BNSF Standard (Level II) <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Other Deliverables? <input type="checkbox"/> EDD Req. Format?		<table border="1" style="width:100%; height: 100px;"> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> </table>																																																																																	
SAMPLE INFORMATION																																																																																					
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix	COMMENTS	LAB USE																																																																												
		Date	Time	Sampler																																																																																	
1 SI-AD-091018	2	9/10/18	1612	NP	N	G	W	X																																																																													
2 SI-BB-091018			1615	AB				X																																																																													
3 SI-AU-091018			1620	GP				X																																																																													
4 SI-BD-091018			1625	KK				X																																																																													
5 S2-BD-091018			1655	YP				X																																																																													
6 S2-AD-091018			1655	AB				X																																																																													
7 S2-AU-091018			1700	KK				X																																																																													
8 S2-BU-091018			1710	GP				X																																																																													
9 S3-AD-091118		9/11/18	0942	YP				X																																																																													
10 S3-BU-091118			0944	AB				X																																																																													
11 S3-AU-091118			0948	GP				X																																																																													
12 S3-BD-091118			0955	KK				X																																																																													
13 S3-CD-091118			1022	YP				X																																																																													
14 S3-CU-091118			1030	GP				X																																																																													
15 S4-AU-091118			1035	AB				X																																																																													




580-80366 Chain of Custody

Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/13/18 0900</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9-13-18 1430</u>	Comments and Special Analytical Requirements:	
Relinquished By:	Date/Time:	Received By:	Date/Time:		
Relinquished By:	Date/Time:	Received By:	Date/Time:		
Received by Laboratory	Date/Time:	Lab Remarks:	Lab: Custody Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.	BNSF COC No.

2/5

 CHAIN OF CUSTODY	LABORATORY INFORMATION						LAB WORK ORDER:																				
	Laboratory:			Project Manager:			SHIPMENT INFORMATION																				
	Address:			Phone:			Shipment Method:																				
	City/State/ZIP:			Fax:			Tracking Number:																				
BNSF PROJECT INFORMATION			CONSULTANT INFORMATION			Project Number: 683-067																					
BNSF Project Number: 683-067			Project City: skyhomin			Project Manager: Rob Lee																					
BNSF Project Name: skyhomin			Company: Fanum Consulting			Email: blee@fanumconsulting.com																					
BNSF Contact:			BNSF Work Order No.: 10100-012			City/State/ZIP: Issaquah WA																					
TURNAROUND TIME			DELIVERABLES			METHODS FOR ANALYSIS																					
<input type="checkbox"/> 1-day Rush <input type="checkbox"/> 5- to 8-day Rush <input type="checkbox"/> 2-day Rush <input checked="" type="checkbox"/> Standard 10-Day <input type="checkbox"/> 3-day Rush <input type="checkbox"/> Other _____			<input type="checkbox"/> Other Deliverables? <input checked="" type="checkbox"/> BNSF Standard (Level II) <input type="checkbox"/> Level III <input type="checkbox"/> EDD Req, Format? <input type="checkbox"/> Level IV			<table border="1" style="width:100%; height: 100px;"> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td style="text-align: center;">NW</td><td style="text-align: center;">TPH</td><td style="text-align: center;">OK</td><td colspan="7"></td></tr> </table>												NW	TPH	OK							
NW	TPH	OK																									
SAMPLE INFORMATION																											
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix	COMMENTS	LAB USE																		
		Date	Time	Sampler																							
1. S4-AD-09118	2	9/11/18	1045	KK	N	G	W	X																			
2. S-W-17-09118			1230	AB				X																			
3. S-W-16-09118			1230	KK				X																			
4. S4-BJ-09118			1105	AB				X																			
5. S4-CD-09118			1110	YP				X																			
6. S4-BD-09118			1115	KK				X																			
7. S4-CU-09118			1118	GP				X																			
8. S-W-19-09118			1425	AB				X																			
9. S-W-18-09118			1430	KK				X																			
10. S-W-180-09118			1435	KK				X																			
11. S-W-56-09118			1615	AB				X																			
12. G-W-4-09118			1215	YP				X																			
13. E-W-2A-09118			1232	GP				X																			
14. S-W-1-09118 1C-W-20-09118			1425	YP				X																			
15. 1C-W-8-09118			1442	GP				X																			
Relinquished By: <i>[Signature]</i>		Date/Time: 9/13/18 0900		Received By: <i>[Signature]</i>		Date/Time: 9-13-18 1430		Comments and Special Analytical Requirements:																			
Relinquished By:		Date/Time:		Received By:		Date/Time:																					
Relinquished By:		Date/Time:		Received By:		Date/Time:																					
Received by Laboratory:		Date/Time:		Lab Remarks:		Lab: Custody Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No. BNSF COC No.																			

3/5

 <p>CHAIN OF CUSTODY</p>		<p align="center">LABORATORY INFORMATION</p>						<p>LAB WORK ORDER:</p>											
		<p>Laboratory: _____ Project Manager: _____</p>			<p>Address: _____ Phone: _____</p>			<p align="center">SHIPMENT INFORMATION</p>											
		<p>City/State/ZIP: _____ Fax: _____</p>			<p>Shipment Method: _____</p>			<p>Tracking Number: _____</p>											
<p align="center">BNSF PROJECT INFORMATION</p>			<p align="center">CONSULTANT INFORMATION</p>			<p align="center">SHIPMENT INFORMATION</p>													
<p>BNSF Project Number: 683-067 Project State of Origin: WA</p>			<p>Project City: Skykomish Company: Farallon Consulting</p>			<p>Project Number: 683-067</p>													
<p>BNSF Project Name: 683-067 Skykomish Schi</p>			<p>Address: 975 5th AVE NW</p>			<p>Project Manager: Rob Keet</p>													
<p>BNSF Contact: _____ BNSF Work Order No.: T10100-012</p>			<p>City/State/ZIP: ISSOUE WA</p>			<p>Email: Rkeet@farallonconsulting.com</p>													
<p align="center">TURNAROUND TIME</p>		<p align="center">DELIVERABLES <input type="checkbox"/> Other Deliverables?</p>				<p align="center">METHODS FOR ANALYSIS</p>													
<p><input type="checkbox"/> 1-day Rush <input type="checkbox"/> 5- to 8-day Rush</p> <p><input type="checkbox"/> 2-day Rush <input checked="" type="checkbox"/> Standard 10-Day</p> <p><input type="checkbox"/> 3-day Rush <input type="checkbox"/> Other _____</p>		<p><input checked="" type="checkbox"/> BNSF Standard (Level II)</p> <p><input type="checkbox"/> Level III <input type="checkbox"/> EDD Req. Format?</p> <p><input type="checkbox"/> Level IV</p>				<p><i>TPH-DX</i></p>													
<p align="center">SAMPLE INFORMATION</p>																			
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix											COMMENTS	LAB USE
		Date	Time	Sampler															
1C-W-3-091118	2	9/11/18	1535	YP	N	G	W	X											
1C-W-4-091118			1539	GP				X											
2A-W-42-091118			1645	YP				X											
1C-W-7-091118			1650	GP				X											
5-W-55-091118			1720	KK				X											
5-W-14-091218		9/12/18	0900	AB				X											
5-W-51-091218			0910	KK				X											
EW-1-091218			1005	AB				X											
MW-382-091218			1015	KK				X											
EW-10-091218			1015	AB				X											
5-W-43-091218			1125	AB				X											
6W-1-091218			1135	KK				X											
6W-2-091218			1230	AB				X											
6W-20-091218			1250	AB				X											
2A-W-40-091218			1240	KK				X											
Relinquished By: <i>[Signature]</i>	Date/Time: 9/13/18 0900	Received By: <i>[Signature]</i>	Date/Time: 9-13-18	Date/Time: 1430	Comments and Special Analytical Requirements:														
Relinquished By:	Date/Time:	Received By:	Date/Time:	Date/Time:															
Relinquished By:	Date/Time:	Received By:	Date/Time:	Date/Time:															
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	BNSF COC No.:														


ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (0912)

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4/5

 CHAIN OF CUSTODY		LABORATORY INFORMATION				LAB WORK ORDER:			
		Laboratory:		Project Manager:		SHIPMENT INFORMATION			
		Address:		Phone:		Shipment Method:			
City/State/ZIP:		Fax:		Tracking Number:					
BNSF PROJECT INFORMATION			CONSULTANT INFORMATION			Project Number: 683-067			
BNSF Project Number: 683-067			Company: Parallon Consulting			Project Manager: Rob Leet			
BNSF Project Name: Skykomish Semiannual			Address: 975 5th AVE NW			Email: RLeet@parallonconsulting.com			
BNSF Contact: T1000-012			City/State/ZIP: Issaquah WA			Phone: Fax:			
TURNAROUND TIME		DELIVERABLES		METHODS FOR ANALYSIS					
<input type="checkbox"/> 1-day Rush <input type="checkbox"/> 2-day Rush <input type="checkbox"/> 3-day Rush <input type="checkbox"/> 5- to 8-day Rush <input checked="" type="checkbox"/> Standard 10-Day <input type="checkbox"/> Other _____		<input checked="" type="checkbox"/> BNSF Standard (Level II) <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Other Deliverables? <input type="checkbox"/> EDD Req. Format?		NUTPH-0X SGC NUTPHDX					
SAMPLE INFORMATION									
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix	COMMENTS	LAB USE
		Date	Time	Sampler					
1 IA-W-4-091218	2	9/12/18	1215	YP	N	GW	X		
2 IB-W-2-091218			0900	YP			X		
3 IB-W-3-091218			0910	GP			X		
4 GW-3-091218			1019	GP			X	X	
5 GW-30-091218			1045	GP			X		
6 IB-W-23-091218			1050	YP			X		
7 2A-W-41-091218			1204	GP			X	X	
8 2A-W-410-091218			1235	GP			X	WAD	
9 2A-W-10-091218			1440	AB			X		
10 2A-W-9-091218			1440	GP			X		
11 MW-555-091218			1515	GP			X		
12 MW-3-091218			1415	YP			X		
13 MW-30-091218			1420	YP			X		
14 MW-4-091218			1434	GP			X		
15 IB-W-4-091218			1540	YP			X		
Relinquished By: <i>[Signature]</i>	Date/Time: 9/13/18 0900	Received By: <i>[Signature]</i>	Date/Time: 9-13-18	Date/Time: 1430	Comments and Special Analytical Requirements:				
Relinquished By:	Date/Time:	Received By:	Date/Time:	Date/Time:	SGC = Silica GCL cleanup				
Relinquished By:	Date/Time:	Received By:	Date/Time:	Date/Time:					
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab Custody Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.	BNSF COC No.				



CHAIN OF CUSTODY

LABORATORY INFORMATION

LAB WORK ORDER: 5/5

SHIPMENT INFORMATION

Laboratory: _____ Project Manager: _____
 Address: _____ Phone: _____
 City/State/ZIP: _____ Fax: _____

Shipment Method: _____
 Tracking Number: _____

BNSF PROJECT INFORMATION

CONSULTANT INFORMATION

Project Number: 683-067

BNSF Project Number: 683-067
 BNSF Project Name: Skykomish Semi-Annual
 BNSF Contact: _____
 Project State of Origin: WA
 Project City: Skykomish
 BNSF Work Order No.: 10100-012

Company: Fallon Consulting
 Address: 975 5th AVE NW
 City/State/Zip: ISS WA
 Project Manager: Rob Lee
 Email: Rlee@fallonconsulting.com
 Phone: _____ Fax: _____

TURNAROUND TIME

DELIVERABLES

Other Deliverables?

1-day Rush
 2-day Rush
 3-day Rush
 5- to 8-day Rush
 Standard 10-Day
 Other _____

BNSF Standard (Level II)
 Level III
 Level IV
 EDD Req, Format?

METHODS FOR ANALYSIS

2
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SAMPLE INFORMATION

Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix	METHODS FOR ANALYSIS	COMMENTS	LAB USE
		Date	Time	Sampler						
1 MW-16-091218	2	9/12/18	1551GP	N	G	W	X			
2										
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4										
5										
6										
7										
8										
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12										
13										
14										
15										

Relinquished By: *[Signature]* Date/Time: 9/13/18 0900 Received By: *[Signature]* Date/Time: 9-13-18 1430
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____
 Received by Laboratory: _____ Date/Time: _____ Lab Remarks: _____ Lab Custody Intact? Yes No
 Comments and Special Analytical Requirements: _____ Custody Seal No. _____ BNSF COC No. _____

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (0912)

Therm. ID: A2 Cor: 1.5 ° Unc: 1.2 °
Cooler Dsc: lrg blue
Packing: Bubble FedEx: _____
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 1.0 ° Unc: 0.7 °
Cooler Dsc: lrg green
Packing: Bubble FedEx: F
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 0.7 ° Unc: 0.4 °
Cooler Dsc: lrg blue
Packing: Bubble FedEx: _____
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 1.5 ° Unc: 1.2 °
Cooler Dsc: lrg green
Packing: Bubble FedEx: _____
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 1.1 ° Unc: 0.8 °
Cooler Dsc: lrg blue
Packing: Bubble FedEx: _____
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 2.9 ° Unc: 2.5 °
Cooler Dsc: lrg green
Packing: Bubble FedEx: _____
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 0.5 ° Unc: 0.2 °
Cooler Dsc: lrg blue
Packing: Bubble FedEx: _____
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 0.9 ° Unc: 0.4 °
Cooler Dsc: lrg green
Packing: Bubble FedEx: _____
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 0.8 ° Unc: 0.5 °
Cooler Dsc: lrg blue
Packing: Bubble FedEx: _____
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 3.0 ° Unc: 3.3 °
Cooler Dsc: med blue
Packing: Bubble FedEx: _____
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 2.4 ° Unc: 2.1 °
Cooler Dsc: lrg blue
Packing: Bubble FedEx: _____
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Therm. ID: A2 Cor: 1.5 ° Unc: 1.2 °
Cooler Dsc: lrg blue
Packing: Bubble FedEx: _____
Cust. Seal: Yes No _____
 Wet/Packs/Dry Ice/None Other: _____

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-80366-1

Login Number: 80366

List Source: TestAmerica Seattle

List Number: 1

Creator: Gall, Brandon A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

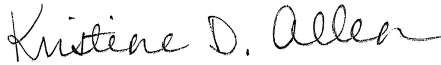
TestAmerica Job ID: 580-80799-1

Client Project/Site: Skykomish Semi-Annual
Sampling Event: Skykomish HCC System
Revision: 2

For:

Farallon Consulting LLC
1809 7th Ave. Suite 1111
Seattle, Washington 98101

Attn: Rob Leet



Authorized for release by:
10/9/2018 4:10:57 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	7
Chronicle	8
Certification Summary	9
Sample Summary	10
Chain of Custody	11
Receipt Checklists	12

Case Narrative

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-80799-1

Job ID: 580-80799-1

Laboratory: TestAmerica Seattle

Narrative

**Job Narrative
580-80799-1**

Comments

Report was revised 10-8-18 to correct the client sample IDs.
Report was revised 10-9-18 to correct the sample collection time.

No additional comments.

Receipt

The samples were received on 10/3/2018 2:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

GC Semi VOA

Method(s) NWTPH-Dx: The %D of surrogate (o-Terphenyl) for CCV associated with batch 580-285879 was outside the upper control limits. All associated sample surrogate fell within acceptance criteria; therefore, the data have been reported. (CCV 580-285879/21)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-80799-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-80799-1

Client Sample ID: S2-BD-100218

Lab Sample ID: 580-80799-1

Date Collected: 10/02/18 09:45

Matrix: Water

Date Received: 10/03/18 14:50

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/07/18 14:09	10/07/18 21:31	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		10/07/18 14:09	10/07/18 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		50 - 150				10/07/18 14:09	10/07/18 21:31	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-80799-1

Client Sample ID: S2-BU-100218

Lab Sample ID: 580-80799-2

Date Collected: 10/02/18 10:15

Matrix: Water

Date Received: 10/03/18 14:50

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/07/18 14:09	10/07/18 21:53	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		10/07/18 14:09	10/07/18 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	84		50 - 150				10/07/18 14:09	10/07/18 21:53	1

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QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-80799-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-285878/1-A
Matrix: Water
Analysis Batch: 285879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 285878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		10/07/18 14:09	10/07/18 18:59	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		10/07/18 14:09	10/07/18 18:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	91		50 - 150	10/07/18 14:09	10/07/18 18:59	1

Lab Sample ID: LCS 580-285878/2-A
Matrix: Water
Analysis Batch: 285879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 285878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.446		mg/L		89	50 - 120
Motor Oil (>C24-C36)	0.500	0.481		mg/L		96	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	102		50 - 150

Lab Sample ID: LCSD 580-285878/3-A
Matrix: Water
Analysis Batch: 285879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 285878

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.453		mg/L		91	50 - 120	2	26
Motor Oil (>C24-C36)	0.500	0.491		mg/L		98	64 - 120	2	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	104		50 - 150

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-80799-1

Client Sample ID: S2-BD-100218

Date Collected: 10/02/18 09:45

Date Received: 10/03/18 14:50

Lab Sample ID: 580-80799-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			285878	10/07/18 14:09	JCM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	285879	10/07/18 21:31	CJ	TAL SEA

Client Sample ID: S2-BU-100218

Date Collected: 10/02/18 10:15

Date Received: 10/03/18 14:50

Lab Sample ID: 580-80799-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			285878	10/07/18 14:09	JCM	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	285879	10/07/18 21:53	CJ	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-80799-1

Laboratory: TestAmerica Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-18
Montana (UST)	State Program	8	N/A	04-30-20
Nevada	State Program	9	WA000502019-1	07-31-19
Oregon	NELAP	10	WA100007	11-05-18
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Sample Summary

Client: Farallon Consulting LLC
Project/Site: Skykomish Semi-Annual

TestAmerica Job ID: 580-80799-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-80799-1	S2-BD-100218	Water	10/02/18 09:45	10/03/18 14:50
580-80799-2	S2-BU-100218	Water	10/02/18 10:15	10/03/18 14:50

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TestAmerica Seattle
5755 8th Street East

Chain of Custody Record

Loc: 580

80799


TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Tacoma, WA 98424-1317
phone 253.922.2310 fax 253.922.5047

Regulatory Program: DW NPDES RCRA Other:

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: <u>Rob Leet</u>		Site Contact:		Date:		COC No:	
Your Company Name here <u>Ferallon Consulting</u>		Tel/Fax:		Lab Contact:		Carrier:		<u>3</u> of <u>3</u> COCs	
Address <u>975 5th Ave NW</u>		Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input checked="" type="checkbox"/> 1 day							
City/State/Zip <u>Issaquah WA 98027</u>									
(xxx) xxx-xxxx Phone									
(xxx) xxx-xxxx FAX									
Project Name: <u>Shyomish Semi-Annual</u>		Site: <u>683-067</u>		P O #		Sampler:		For Lab Use Only:	
								Walk-in Client:	
								Lab Sampling:	
								Job / SDG No.:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes
S2-BD-100218	10/2/18	945	G	W	2	N	X	
S2-BU-100218	10/2/18	1005	G	W	2	N	X	
 580-80799 Chain of Custody								
Therm. ID: <u>A7</u> Cor: <u>1.3</u> ° Unc: <u>1.0</u> ° Cooler Desc: <u>Big Blue</u> FedEx: _____ Packing: <u>Bubble</u> UPS: _____ Cust. Seal: Yes <u>X</u> No Lab Cour: <u>X</u> Wet/Packs/Dry Ice/None Other: _____								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:
24 hr turnaround

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Cor'd: _____		Therm ID No.:	
Relinquished by: <u>[Signature]</u>	Company: <u>Ferallon</u>	Date/Time: <u>10/3/18 0800</u>	Received by: <u>[Signature]</u>	Company: <u>TA-95/11</u>	Date/Time: <u>10/3/18 1450</u>		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:		
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:		

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-80799-1

Login Number: 80799

List Number: 1

Creator: Hobbs, Kenneth F

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-82652-1

Client Project/Site: BNSF Skykomish Ground Water
Sampling Event: Skykomish HCC System

For:

Farallon Consulting LLC
975 5th Avenue NW
Suite 100
Issaquah, Washington 98027

Attn: Peter Kingston



Authorized for release by:
12/31/2018 4:44:00 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	46
Chronicle	52
Certification Summary	60
Sample Summary	61
Chain of Custody	62
Receipt Checklists	67

Case Narrative

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Job ID: 580-82652-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative 580-82652-1

Comments

No additional comments.

Receipt

The samples were received on 12/13/2018 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 0.3° C, 0.5° C, 0.8° C, 1.1° C, 1.2° C, 1.5° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C and 2.5° C.

GC Semi VOA

Method(s) NWTPH-Dx: The continuing calibration verification (CCV) associated with batch 580-291649 recovered above the upper control limit for Motor Oil (>C24-C36). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 2A-W-41-121218 (580-82652-28) and (LCSD 580-291536/3-B).

Method(s) NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: GW-3-121118 (580-82652-6), GW-30-121118 (580-82652-7), 2A-W-42-121118 (580-82652-10), 1C-W-7-121118 (580-82652-11), GW-2-121118 (580-82652-12) and GW-20-121118 (580-82652-16).

Method(s) NWTPH-Dx: The following sample was re-prepared outside of preparation holding time due to the sample not having sufficient remaining volume for a silica gel cleanup after extraction and analysis of the non-cleaned extract.: GW-3-121118 (580-82652-6). Both sets of data for the non-silica get treated extract have been reported.

Method(s) NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: 5-W-56-121118 (580-82652-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) NWTPH-Dx: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 580-291573 and analytical batch 580-292099 recovered outside control limits for the following analytes: #2 Diesel (C10-C24) and Motor Oil (>C24-C36). The individual recoveries of both the LCS and LCSD met the acceptance criteria.

Method(s) NWTPH-Dx: Continuing calibration verification (CCV) standard associated with batch 580-292294 recovered outside %Drift acceptance criteria for o-Terphenyl surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and affected samples; therefore, the data have been reported. (CCV 580-292294/14) and (CCVRT 580-292294/3)

Method(s) NWTPH-Dx: The LCSD 580-291536/3-B recovered above the acceptance criteria for Motor Oil (>C24-C36). The associated sample(s) were non-detect; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: MW-4-121118

Lab Sample ID: 580-82652-1

Date Collected: 12/11/18 09:40

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.099		0.062	0.062	mg/L		12/17/18 07:40	12/18/18 05:53	1
Motor Oil (>C24-C36)	0.12		0.091	0.091	mg/L		12/17/18 07:40	12/18/18 05:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		50 - 150				12/17/18 07:40	12/18/18 05:53	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: MW-3-121118

Lab Sample ID: 580-82652-2

Date Collected: 12/11/18 09:43

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.87		0.061	0.061	mg/L		12/17/18 07:40	12/18/18 06:15	1
Motor Oil (>C24-C36)	2.3		0.091	0.091	mg/L		12/17/18 07:40	12/18/18 06:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		50 - 150				12/17/18 07:40	12/18/18 06:15	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 2A-W-10-121118

Lab Sample ID: 580-82652-3

Date Collected: 12/11/18 10:30

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.13		0.062	0.062	mg/L		12/17/18 07:40	12/18/18 06:59	1
Motor Oil (>C24-C36)	0.25		0.091	0.091	mg/L		12/17/18 07:40	12/18/18 06:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		50 - 150				12/17/18 07:40	12/18/18 06:59	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 2A-W-9-121118

Lab Sample ID: 580-82652-4

Date Collected: 12/11/18 10:44

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.29		0.062	0.062	mg/L		12/17/18 07:40	12/18/18 07:21	1
Motor Oil (>C24-C36)	0.38		0.091	0.091	mg/L		12/17/18 07:40	12/18/18 07:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		50 - 150				12/17/18 07:40	12/18/18 07:21	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 1B-W-23-121118

Lab Sample ID: 580-82652-5

Date Collected: 12/11/18 12:00

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/17/18 07:40	12/18/18 07:43	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		12/17/18 07:40	12/18/18 07:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		50 - 150				12/17/18 07:40	12/18/18 07:43	1

- 1
- 2
- 3
- 4
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- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: GW-3-121118

Lab Sample ID: 580-82652-6

Date Collected: 12/11/18 12:12

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.28		0.061	0.061	mg/L		12/19/18 09:39	12/22/18 02:04	1
Motor Oil (>C24-C36)	0.12		0.091	0.091	mg/L		12/19/18 09:39	12/22/18 02:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		50 - 150				12/19/18 09:39	12/22/18 02:04	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.29	H	0.061	0.061	mg/L		12/30/18 07:34	12/30/18 15:04	1
Motor Oil (>C24-C36)	0.18	H	0.091	0.091	mg/L		12/30/18 07:34	12/30/18 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	97		50 - 150				12/30/18 07:34	12/30/18 15:04	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.13	H	0.061	0.061	mg/L		12/30/18 07:34	12/30/18 17:57	1
Motor Oil (>C24-C36)	ND	H	0.091	0.091	mg/L		12/30/18 07:34	12/30/18 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	106		50 - 150				12/30/18 07:34	12/30/18 17:57	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: GW-30-121118

Lab Sample ID: 580-82652-7

Date Collected: 12/11/18 12:30

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.34		0.062	0.062	mg/L		12/19/18 09:39	12/22/18 02:26	1
Motor Oil (>C24-C36)	0.13		0.091	0.091	mg/L		12/19/18 09:39	12/22/18 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		50 - 150				12/19/18 09:39	12/22/18 02:26	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: EW-2A-121118

Lab Sample ID: 580-82652-8

Date Collected: 12/11/18 14:49

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.071		0.062	0.062	mg/L		12/19/18 09:39	12/22/18 02:47	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 09:39	12/22/18 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		50 - 150				12/19/18 09:39	12/22/18 02:47	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: GW-4-121118

Lab Sample ID: 580-82652-9

Date Collected: 12/11/18 15:00

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/19/18 09:39	12/22/18 03:09	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 09:39	12/22/18 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		50 - 150				12/19/18 09:39	12/22/18 03:09	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 2A-W-42-121118

Lab Sample ID: 580-82652-10

Date Collected: 12/11/18 16:12

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.17		0.061	0.061	mg/L		12/19/18 09:39	12/22/18 03:30	1
Motor Oil (>C24-C36)	0.11		0.091	0.091	mg/L		12/19/18 09:39	12/22/18 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		50 - 150				12/19/18 09:39	12/22/18 03:30	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 1C-W-7-121118

Lab Sample ID: 580-82652-11

Date Collected: 12/11/18 16:10

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.15		0.062	0.062	mg/L		12/19/18 09:39	12/22/18 03:51	1
Motor Oil (>C24-C36)	0.11		0.091	0.091	mg/L		12/19/18 09:39	12/22/18 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		50 - 150				12/19/18 09:39	12/22/18 03:51	1

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- 2
- 3
- 4
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- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: GW-2-121118

Lab Sample ID: 580-82652-12

Date Collected: 12/11/18 09:50

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.13		0.062	0.062	mg/L		12/19/18 09:39	12/22/18 04:13	1
Motor Oil (>C24-C36)	0.27		0.091	0.091	mg/L		12/19/18 09:39	12/22/18 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		50 - 150				12/19/18 09:39	12/22/18 04:13	1

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- 3
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- 7
- 8
- 9
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- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 2A-W-40-121118

Lab Sample ID: 580-82652-13

Date Collected: 12/11/18 09:23

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.079		0.062	0.062	mg/L		12/19/18 09:39	12/22/18 04:56	1
Motor Oil (>C24-C36)	0.095		0.092	0.092	mg/L		12/19/18 09:39	12/22/18 04:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	85		50 - 150				12/19/18 09:39	12/22/18 04:56	1

- 1
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- 3
- 4
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- 6
- 7
- 8
- 9
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- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: PZ-8-121118

Lab Sample ID: 580-82652-14

Date Collected: 12/11/18 12:42

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/19/18 09:39	12/22/18 05:17	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 09:39	12/22/18 05:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	81		50 - 150				12/19/18 09:39	12/22/18 05:17	1

- 1
- 2
- 3
- 4
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- 9
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- 11

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: GW-1-121118

Lab Sample ID: 580-82652-15

Date Collected: 12/11/18 11:15

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/19/18 09:39	12/22/18 05:38	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		12/19/18 09:39	12/22/18 05:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	81		50 - 150				12/19/18 09:39	12/22/18 05:38	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: GW-20-121118

Lab Sample ID: 580-82652-16

Date Collected: 12/11/18 10:05

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.46		0.062	0.062	mg/L		12/19/18 09:39	12/22/18 06:00	1
Motor Oil (>C24-C36)	1.0		0.091	0.091	mg/L		12/19/18 09:39	12/22/18 06:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		50 - 150				12/19/18 09:39	12/22/18 06:00	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: PZ-7S-12118

Lab Sample ID: 580-82652-17

Date Collected: 12/11/18 11:24

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/19/18 09:39	12/22/18 06:21	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 09:39	12/22/18 06:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		50 - 150				12/19/18 09:39	12/22/18 06:21	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: EW-1-121218

Lab Sample ID: 580-82652-18

Date Collected: 12/12/18 11:50

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/19/18 11:13	12/20/18 20:21	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 11:13	12/20/18 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	95		50 - 150				12/19/18 11:13	12/20/18 20:21	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 5-W-19-121118

Lab Sample ID: 580-82652-19

Date Collected: 12/11/18 15:20

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		12/19/18 11:13	12/20/18 20:43	1
Motor Oil (>C24-C36)	ND		0.090	0.090	mg/L		12/19/18 11:13	12/20/18 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		50 - 150				12/19/18 11:13	12/20/18 20:43	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 5-W-18-121118

Lab Sample ID: 580-82652-20

Date Collected: 12/11/18 15:35

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		12/19/18 11:13	12/20/18 21:05	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 11:13	12/20/18 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	95		50 - 150				12/19/18 11:13	12/20/18 21:05	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 5-W-55-121118

Lab Sample ID: 580-82652-21

Date Collected: 12/11/18 16:45

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.091		0.061	0.061	mg/L		12/19/18 11:13	12/20/18 21:48	1
Motor Oil (>C24-C36)	ND		0.090	0.090	mg/L		12/19/18 11:13	12/20/18 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	97		50 - 150				12/19/18 11:13	12/20/18 21:48	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 5-W-56-121118

Lab Sample ID: 580-82652-22

Date Collected: 12/11/18 17:12

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.95		0.061	0.061	mg/L		12/19/18 11:13	12/20/18 22:10	1
Motor Oil (>C24-C36)	1.4		0.091	0.091	mg/L		12/19/18 11:13	12/20/18 22:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	2894	X	50 - 150				12/19/18 11:13	12/20/18 22:10	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 5-W-43-121118

Lab Sample ID: 580-82652-23

Date Collected: 12/11/18 12:35

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		12/19/18 11:13	12/20/18 22:32	1
Motor Oil (>C24-C36)	ND		0.090	0.090	mg/L		12/19/18 11:13	12/20/18 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		50 - 150				12/19/18 11:13	12/20/18 22:32	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 1C-W-1-121218

Lab Sample ID: 580-82652-24

Date Collected: 12/12/18 09:40

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.074		0.062	0.062	mg/L		12/19/18 11:13	12/20/18 22:53	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 11:13	12/20/18 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	95		50 - 150				12/19/18 11:13	12/20/18 22:53	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 1C-W-8-121218

Lab Sample ID: 580-82652-25

Date Collected: 12/12/18 09:41

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.14		0.061	0.061	mg/L		12/19/18 11:13	12/20/18 23:15	1
Motor Oil (>C24-C36)	0.19		0.091	0.091	mg/L		12/19/18 11:13	12/20/18 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	91		50 - 150				12/19/18 11:13	12/20/18 23:15	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 5-W-51-121218

Lab Sample ID: 580-82652-26

Date Collected: 12/12/18 09:51

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	1.0		0.062	0.062	mg/L		12/19/18 11:13	12/20/18 23:37	1
Motor Oil (>C24-C36)	1.6		0.091	0.091	mg/L		12/19/18 11:13	12/20/18 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		50 - 150				12/19/18 11:13	12/20/18 23:37	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 1B-W-3-121218

Lab Sample ID: 580-82652-27

Date Collected: 12/12/18 10:40

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/19/18 11:13	12/20/18 23:58	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 11:13	12/20/18 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	96		50 - 150				12/19/18 11:13	12/20/18 23:58	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 2A-W-41-121218

Lab Sample ID: 580-82652-28

Date Collected: 12/12/18 11:01

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.21		0.061	0.061	mg/L		12/19/18 11:13	12/21/18 00:20	1
Motor Oil (>C24-C36)	0.23		0.091	0.091	mg/L		12/19/18 11:13	12/21/18 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	92		50 - 150				12/19/18 11:13	12/21/18 00:20	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		12/19/18 11:13	12/20/18 18:54	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 11:13	12/20/18 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	104		50 - 150				12/19/18 11:13	12/20/18 18:54	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 2A-W-410-121218

Lab Sample ID: 580-82652-29

Date Collected: 12/12/18 11:20

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		12/19/18 11:13	12/21/18 01:03	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 11:13	12/21/18 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	94		50 - 150				12/19/18 11:13	12/21/18 01:03	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 5-W-17-121218

Lab Sample ID: 580-82652-30

Date Collected: 12/12/18 11:03

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/19/18 11:13	12/21/18 01:46	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 11:13	12/21/18 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	97		50 - 150				12/19/18 11:13	12/21/18 01:46	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: FWG-WV-121218

Lab Sample ID: 580-82652-31

Date Collected: 12/12/18 11:40

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/19/18 11:13	12/21/18 02:08	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 11:13	12/21/18 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	84		50 - 150				12/19/18 11:13	12/21/18 02:08	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: FWG-EV-121218

Lab Sample ID: 580-82652-32

Date Collected: 12/12/18 12:40

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.085		0.062	0.062	mg/L		12/19/18 11:13	12/21/18 02:29	1
Motor Oil (>C24-C36)	0.15		0.091	0.091	mg/L		12/19/18 11:13	12/21/18 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	87		50 - 150				12/19/18 11:13	12/21/18 02:29	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: WG-WV-121218

Lab Sample ID: 580-82652-33

Date Collected: 12/12/18 13:15

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.57		0.063	0.063	mg/L		12/19/18 11:13	12/21/18 02:51	1
Motor Oil (>C24-C36)	0.47		0.092	0.092	mg/L		12/19/18 11:13	12/21/18 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150				12/19/18 11:13	12/21/18 02:51	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: WG-EV-121218

Lab Sample ID: 580-82652-34

Date Collected: 12/12/18 12:40

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/19/18 11:13	12/21/18 03:12	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		12/19/18 11:13	12/21/18 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	92		50 - 150				12/19/18 11:13	12/21/18 03:12	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 2B-W-4-121218

Lab Sample ID: 580-82652-35

Date Collected: 12/12/18 12:23

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/19/18 11:13	12/21/18 03:34	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 11:13	12/21/18 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		50 - 150				12/19/18 11:13	12/21/18 03:34	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 5-W-16-121218

Lab Sample ID: 580-82652-36

Date Collected: 12/12/18 12:24

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/19/18 11:13	12/22/18 01:43	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/19/18 11:13	12/22/18 01:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		50 - 150				12/19/18 11:13	12/22/18 01:43	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 5-W-14-121218

Lab Sample ID: 580-82652-37

Date Collected: 12/12/18 13:27

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/27/18 23:15	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/27/18 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	97		50 - 150				12/19/18 14:58	12/27/18 23:15	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: S2-AD-121218

Lab Sample ID: 580-82652-38

Date Collected: 12/12/18 13:40

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/27/18 23:37	1
Motor Oil (>C24-C36)	ND	*	0.092	0.092	mg/L		12/19/18 14:58	12/27/18 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	97		50 - 150				12/19/18 14:58	12/27/18 23:37	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: S2-AU-121218

Lab Sample ID: 580-82652-39

Date Collected: 12/12/18 13:13

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/27/18 23:59	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/27/18 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	104		50 - 150				12/19/18 14:58	12/27/18 23:59	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: S2-BD-121218

Lab Sample ID: 580-82652-40

Date Collected: 12/12/18 13:55

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 00:20	1
Motor Oil (>C24-C36)	ND	*	0.092	0.092	mg/L		12/19/18 14:58	12/28/18 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		50 - 150				12/19/18 14:58	12/28/18 00:20	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: S2-BU-121218

Lab Sample ID: 580-82652-41

Date Collected: 12/12/18 13:55

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 00:42	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/28/18 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		50 - 150				12/19/18 14:58	12/28/18 00:42	1

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QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-291276/1-A

Matrix: Water

Analysis Batch: 291367

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 291276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		12/17/18 07:40	12/18/18 03:42	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		12/17/18 07:40	12/18/18 03:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		50 - 150	12/17/18 07:40	12/18/18 03:42	1

Lab Sample ID: LCS 580-291276/2-A

Matrix: Water

Analysis Batch: 291367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 291276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.419		mg/L		84	50 - 120
Motor Oil (>C24-C36)	0.500	0.470		mg/L		94	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	84		50 - 150

Lab Sample ID: LCSD 580-291276/3-A

Matrix: Water

Analysis Batch: 291367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 291276

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.444		mg/L		89	50 - 120	6	26
Motor Oil (>C24-C36)	0.500	0.507		mg/L		101	64 - 120	8	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	87		50 - 150

Lab Sample ID: MB 580-291500/1-A

Matrix: Water

Analysis Batch: 291548

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 291500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.26	0.26	mg/L		12/18/18 16:33	12/19/18 16:47	1
Motor Oil (>C24-C36)	ND		0.38	0.38	mg/L		12/18/18 16:33	12/19/18 16:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	81		50 - 150	12/18/18 16:33	12/19/18 16:47	1

Lab Sample ID: LCS 580-291500/2-A

Matrix: Water

Analysis Batch: 291548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 291500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	2.00	1.56		mg/L		78	50 - 120
Motor Oil (>C24-C36)	2.00	1.60		mg/L		80	64 - 120

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-291500/2-A
Matrix: Water
Analysis Batch: 291548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 291500

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	83		50 - 150

Lab Sample ID: LCSD 580-291500/3-A
Matrix: Water
Analysis Batch: 291548

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 291500

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	2.00	1.52		mg/L		76	50 - 120	3	26
Motor Oil (>C24-C36)	2.00	1.55		mg/L		78	64 - 120	3	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	80		50 - 150

Lab Sample ID: 580-82614-A-3-B MSD
Matrix: Water
Analysis Batch: 291681

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 291500

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	ND		2.03	1.68		mg/L		82	50 - 120	22	26
Motor Oil (>C24-C36)	ND		2.03	1.82		mg/L		90	64 - 120	19	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
<i>o</i> -Terphenyl	75		50 - 150

Lab Sample ID: 580-82614-B-3-A MS
Matrix: Water
Analysis Batch: 291548

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 291500

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	ND		2.03	1.35		mg/L		66	50 - 120
Motor Oil (>C24-C36)	ND		2.03	1.50		mg/L		74	64 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	73		50 - 150

Lab Sample ID: MB 580-291520/1-A
Matrix: Water
Analysis Batch: 291854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 291520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		12/19/18 09:39	12/21/18 21:47	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		12/19/18 09:39	12/21/18 21:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		50 - 150	12/19/18 09:39	12/21/18 21:47	1

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-291520/2-A

Matrix: Water

Analysis Batch: 291854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 291520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	2.00	1.70		mg/L		85	50 - 120
Motor Oil (>C24-C36)	2.00	2.10		mg/L		105	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	98		50 - 150

Lab Sample ID: LCSD 580-291520/3-A

Matrix: Water

Analysis Batch: 291854

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 291520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	2.00	1.74		mg/L		87	50 - 120	2	26
Motor Oil (>C24-C36)	2.00	2.14		mg/L		107	64 - 120	2	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	93		50 - 150

Lab Sample ID: MB 580-291536/1-A

Matrix: Water

Analysis Batch: 291649

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 291536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		12/19/18 11:13	12/20/18 19:16	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		12/19/18 11:13	12/20/18 19:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	106		50 - 150	12/19/18 11:13	12/20/18 19:16	1

Lab Sample ID: LCS 580-291536/2-A

Matrix: Water

Analysis Batch: 291649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 291536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.452		mg/L		90	50 - 120
Motor Oil (>C24-C36)	0.500	0.509		mg/L		102	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	103		50 - 150

Lab Sample ID: LCSD 580-291536/3-A

Matrix: Water

Analysis Batch: 291649

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 291536

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.473		mg/L		95	50 - 120	4	26
Motor Oil (>C24-C36)	0.500	0.536		mg/L		107	64 - 120	5	24

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-291536/3-A
Matrix: Water
Analysis Batch: 291649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 291536

Surrogate	<i>LCSD</i> %Recovery	<i>LCSD</i> Qualifier	Limits
<i>o</i> -Terphenyl	108		50 - 150

Lab Sample ID: MB 580-291573/1-A
Matrix: Water
Analysis Batch: 292099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 291573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		12/19/18 14:58	12/27/18 21:49	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		12/19/18 14:58	12/27/18 21:49	1

Surrogate	<i>MB</i> %Recovery	<i>MB</i> Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	109		50 - 150	12/19/18 14:58	12/27/18 21:49	1

Lab Sample ID: LCS 580-291573/2-A
Matrix: Water
Analysis Batch: 292099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 291573

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.486		mg/L		97	50 - 120
Motor Oil (>C24-C36)	0.500	0.543		mg/L		109	64 - 120

Surrogate	<i>LCS</i> %Recovery	<i>LCS</i> Qualifier	Limits
<i>o</i> -Terphenyl	115		50 - 150

Lab Sample ID: LCSD 580-291573/3-A
Matrix: Water
Analysis Batch: 292099

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 291573

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.323	*	mg/L		65	50 - 120	40	26
Motor Oil (>C24-C36)	0.500	0.378	*	mg/L		76	64 - 120	36	24

Surrogate	<i>LCSD</i> %Recovery	<i>LCSD</i> Qualifier	Limits
<i>o</i> -Terphenyl	87		50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - RE

Lab Sample ID: MB 580-292291/1-A
Matrix: Water
Analysis Batch: 292294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 292291

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24) - RE	ND		0.065	0.065	mg/L		12/30/18 07:34	12/30/18 13:59	1
Motor Oil (>C24-C36) - RE	ND		0.096	0.096	mg/L		12/30/18 07:34	12/30/18 13:59	1

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - RE (Continued)

Lab Sample ID: MB 580-292291/1-A
Matrix: Water
Analysis Batch: 292294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 292291

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl - RE	106		50 - 150	12/30/18 07:34	12/30/18 13:59	1

Lab Sample ID: LCS 580-292291/2-A
Matrix: Water
Analysis Batch: 292294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 292291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24) - RE	0.500	0.470		mg/L		94	50 - 120
Motor Oil (>C24-C36) - RE	0.500	0.501		mg/L		100	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl - RE	71		50 - 150

Lab Sample ID: LCSD 580-292291/3-A
Matrix: Water
Analysis Batch: 292294

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 292291

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24) - RE	0.500	0.480		mg/L		96	50 - 120	2	26
Motor Oil (>C24-C36) - RE	0.500	0.511		mg/L		102	64 - 120	2	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl - RE	81		50 - 150

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 580-291536/1-B
Matrix: Water
Analysis Batch: 291649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 291536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		12/19/18 11:13	12/20/18 17:48	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		12/19/18 11:13	12/20/18 17:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	110		50 - 150	12/19/18 11:13	12/20/18 17:48	1

Lab Sample ID: LCS 580-291536/2-B
Matrix: Water
Analysis Batch: 291649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 291536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.467		mg/L		93	50 - 120
Motor Oil (>C24-C36)	0.500	0.515		mg/L		103	64 - 120

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup (Continued)

Lab Sample ID: LCS 580-291536/2-B
Matrix: Water
Analysis Batch: 291649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 291536

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	108		50 - 150

Lab Sample ID: LCSD 580-291536/3-B
Matrix: Water
Analysis Batch: 291649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 291536

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	RPD Limit
							Limits	RPD		
#2 Diesel (C10-C24)	0.500	0.497		mg/L		99	50 - 120	6	26	
Motor Oil (>C24-C36)	0.500	0.652	*	mg/L		130	64 - 120	23	24	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	110		50 - 150

Lab Sample ID: MB 580-292291/1-B
Matrix: Water
Analysis Batch: 292294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 292291

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		12/30/18 07:34	12/30/18 16:31	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		12/30/18 07:34	12/30/18 16:31	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	109		50 - 150	12/30/18 07:34	12/30/18 16:31	1

Lab Sample ID: LCS 580-292291/2-B
Matrix: Water
Analysis Batch: 292294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 292291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
#2 Diesel (C10-C24)	0.500	0.477		mg/L		95	50 - 120	
Motor Oil (>C24-C36)	0.500	0.509		mg/L		102	64 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	81		50 - 150

Lab Sample ID: LCSD 580-292291/3-B
Matrix: Water
Analysis Batch: 292294

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 292291

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	RPD Limit
							Limits	RPD		
#2 Diesel (C10-C24)	0.500	0.496		mg/L		99	50 - 120	4	26	
Motor Oil (>C24-C36)	0.500	0.536		mg/L		107	64 - 120	5	24	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	84		50 - 150

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: MW-4-121118

Date Collected: 12/11/18 09:40

Date Received: 12/13/18 17:30

Lab Sample ID: 580-82652-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291276	12/17/18 07:40	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291367	12/18/18 05:53	CJ	TAL SEA

Client Sample ID: MW-3-121118

Date Collected: 12/11/18 09:43

Date Received: 12/13/18 17:30

Lab Sample ID: 580-82652-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291276	12/17/18 07:40	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291367	12/18/18 06:15	CJ	TAL SEA

Client Sample ID: 2A-W-10-121118

Date Collected: 12/11/18 10:30

Date Received: 12/13/18 17:30

Lab Sample ID: 580-82652-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291276	12/17/18 07:40	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291367	12/18/18 06:59	CJ	TAL SEA

Client Sample ID: 2A-W-9-121118

Date Collected: 12/11/18 10:44

Date Received: 12/13/18 17:30

Lab Sample ID: 580-82652-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291276	12/17/18 07:40	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291367	12/18/18 07:21	CJ	TAL SEA

Client Sample ID: 1B-W-23-121118

Date Collected: 12/11/18 12:00

Date Received: 12/13/18 17:30

Lab Sample ID: 580-82652-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291276	12/17/18 07:40	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291367	12/18/18 07:43	CJ	TAL SEA

Client Sample ID: GW-3-121118

Date Collected: 12/11/18 12:12

Date Received: 12/13/18 17:30

Lab Sample ID: 580-82652-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 02:04	TL1	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: GW-3-121118

Lab Sample ID: 580-82652-6

Date Collected: 12/11/18 12:12

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		292291	12/30/18 07:34	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	292294	12/30/18 15:04	Z1R	TAL SEA
Total/NA	Prep	3510C			292291	12/30/18 07:34	KO	TAL SEA
Total/NA	Cleanup	3630C			292293	12/30/18 11:32	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292294	12/30/18 17:57	Z1R	TAL SEA

Client Sample ID: GW-30-121118

Lab Sample ID: 580-82652-7

Date Collected: 12/11/18 12:30

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 02:26	TL1	TAL SEA

Client Sample ID: EW-2A-121118

Lab Sample ID: 580-82652-8

Date Collected: 12/11/18 14:49

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 02:47	TL1	TAL SEA

Client Sample ID: GW-4-121118

Lab Sample ID: 580-82652-9

Date Collected: 12/11/18 15:00

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 03:09	TL1	TAL SEA

Client Sample ID: 2A-W-42-121118

Lab Sample ID: 580-82652-10

Date Collected: 12/11/18 16:12

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 03:30	TL1	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 1C-W-7-121118

Lab Sample ID: 580-82652-11

Date Collected: 12/11/18 16:10

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 03:51	TL1	TAL SEA

Client Sample ID: GW-2-121118

Lab Sample ID: 580-82652-12

Date Collected: 12/11/18 09:50

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 04:13	TL1	TAL SEA

Client Sample ID: 2A-W-40-121118

Lab Sample ID: 580-82652-13

Date Collected: 12/11/18 09:23

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 04:56	TL1	TAL SEA

Client Sample ID: PZ-8-121118

Lab Sample ID: 580-82652-14

Date Collected: 12/11/18 12:42

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 05:17	TL1	TAL SEA

Client Sample ID: GW-1-121118

Lab Sample ID: 580-82652-15

Date Collected: 12/11/18 11:15

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 05:38	TL1	TAL SEA

Client Sample ID: GW-20-121118

Lab Sample ID: 580-82652-16

Date Collected: 12/11/18 10:05

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 06:00	TL1	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: PZ-7S-12118

Lab Sample ID: 580-82652-17

Date Collected: 12/11/18 11:24

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291520	12/19/18 09:39	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291854	12/22/18 06:21	TL1	TAL SEA

Client Sample ID: EW-1-121218

Lab Sample ID: 580-82652-18

Date Collected: 12/12/18 11:50

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/20/18 20:21	CJ	TAL SEA

Client Sample ID: 5-W-19-121118

Lab Sample ID: 580-82652-19

Date Collected: 12/11/18 15:20

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/20/18 20:43	CJ	TAL SEA

Client Sample ID: 5-W-18-121118

Lab Sample ID: 580-82652-20

Date Collected: 12/11/18 15:35

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/20/18 21:05	CJ	TAL SEA

Client Sample ID: 5-W-55-121118

Lab Sample ID: 580-82652-21

Date Collected: 12/11/18 16:45

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/20/18 21:48	CJ	TAL SEA

Client Sample ID: 5-W-56-121118

Lab Sample ID: 580-82652-22

Date Collected: 12/11/18 17:12

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/20/18 22:10	CJ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 5-W-43-121118

Lab Sample ID: 580-82652-23

Date Collected: 12/11/18 12:35

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/20/18 22:32	CJ	TAL SEA

Client Sample ID: 1C-W-1-121218

Lab Sample ID: 580-82652-24

Date Collected: 12/12/18 09:40

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/20/18 22:53	CJ	TAL SEA

Client Sample ID: 1C-W-8-121218

Lab Sample ID: 580-82652-25

Date Collected: 12/12/18 09:41

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/20/18 23:15	CJ	TAL SEA

Client Sample ID: 5-W-51-121218

Lab Sample ID: 580-82652-26

Date Collected: 12/12/18 09:51

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/20/18 23:37	CJ	TAL SEA

Client Sample ID: 1B-W-3-121218

Lab Sample ID: 580-82652-27

Date Collected: 12/12/18 10:40

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/20/18 23:58	CJ	TAL SEA

Client Sample ID: 2A-W-41-121218

Lab Sample ID: 580-82652-28

Date Collected: 12/12/18 11:01

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Cleanup	3630C			291580	12/19/18 15:08	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/20/18 18:54	CJ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: 2A-W-41-121218

Lab Sample ID: 580-82652-28

Date Collected: 12/12/18 11:01

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/21/18 00:20	CJ	TAL SEA

Client Sample ID: 2A-W-410-121218

Lab Sample ID: 580-82652-29

Date Collected: 12/12/18 11:20

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/21/18 01:03	CJ	TAL SEA

Client Sample ID: 5-W-17-121218

Lab Sample ID: 580-82652-30

Date Collected: 12/12/18 11:03

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/21/18 01:46	CJ	TAL SEA

Client Sample ID: FWG-WV-121218

Lab Sample ID: 580-82652-31

Date Collected: 12/12/18 11:40

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/21/18 02:08	CJ	TAL SEA

Client Sample ID: FWG-EV-121218

Lab Sample ID: 580-82652-32

Date Collected: 12/12/18 12:40

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/21/18 02:29	CJ	TAL SEA

Client Sample ID: WG-WV-121218

Lab Sample ID: 580-82652-33

Date Collected: 12/12/18 13:15

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/21/18 02:51	CJ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: WG-EV-121218

Lab Sample ID: 580-82652-34

Date Collected: 12/12/18 12:40

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/21/18 03:12	CJ	TAL SEA

Client Sample ID: 2B-W-4-121218

Lab Sample ID: 580-82652-35

Date Collected: 12/12/18 12:23

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291649	12/21/18 03:34	CJ	TAL SEA

Client Sample ID: 5-W-16-121218

Lab Sample ID: 580-82652-36

Date Collected: 12/12/18 12:24

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291536	12/19/18 11:13	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291853	12/22/18 01:43	T1W	TAL SEA

Client Sample ID: 5-W-14-121218

Lab Sample ID: 580-82652-37

Date Collected: 12/12/18 13:27

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/27/18 23:15	ERZ	TAL SEA

Client Sample ID: S2-AD-121218

Lab Sample ID: 580-82652-38

Date Collected: 12/12/18 13:40

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/27/18 23:37	ERZ	TAL SEA

Client Sample ID: S2-AU-121218

Lab Sample ID: 580-82652-39

Date Collected: 12/12/18 13:13

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/27/18 23:59	ERZ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Client Sample ID: S2-BD-121218

Lab Sample ID: 580-82652-40

Date Collected: 12/12/18 13:55

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 00:20	ERZ	TAL SEA

Client Sample ID: S2-BU-121218

Lab Sample ID: 580-82652-41

Date Collected: 12/12/18 13:55

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 00:42	ERZ	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Laboratory: TestAmerica Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-19
Montana (UST)	State Program	8	N/A	04-30-20
Nevada	State Program	9	WA000502019-1	07-31-19
Oregon	NELAP	10	WA100007	11-05-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-82652-1	MW-4-121118	Water	12/11/18 09:40	12/13/18 17:30
580-82652-2	MW-3-121118	Water	12/11/18 09:43	12/13/18 17:30
580-82652-3	2A-W-10-121118	Water	12/11/18 10:30	12/13/18 17:30
580-82652-4	2A-W-9-121118	Water	12/11/18 10:44	12/13/18 17:30
580-82652-5	1B-W-23-121118	Water	12/11/18 12:00	12/13/18 17:30
580-82652-6	GW-3-121118	Water	12/11/18 12:12	12/13/18 17:30
580-82652-7	GW-30-121118	Water	12/11/18 12:30	12/13/18 17:30
580-82652-8	EW-2A-121118	Water	12/11/18 14:49	12/13/18 17:30
580-82652-9	GW-4-121118	Water	12/11/18 15:00	12/13/18 17:30
580-82652-10	2A-W-42-121118	Water	12/11/18 16:12	12/13/18 17:30
580-82652-11	1C-W-7-121118	Water	12/11/18 16:10	12/13/18 17:30
580-82652-12	GW-2-121118	Water	12/11/18 09:50	12/13/18 17:30
580-82652-13	2A-W-40-121118	Water	12/11/18 09:23	12/13/18 17:30
580-82652-14	PZ-8-121118	Water	12/11/18 12:42	12/13/18 17:30
580-82652-15	GW-1-121118	Water	12/11/18 11:15	12/13/18 17:30
580-82652-16	GW-20-121118	Water	12/11/18 10:05	12/13/18 17:30
580-82652-17	PZ-7S-12118	Water	12/11/18 11:24	12/13/18 17:30
580-82652-18	EW-1-121218	Water	12/12/18 11:50	12/13/18 17:30
580-82652-19	5-W-19-121118	Water	12/11/18 15:20	12/13/18 17:30
580-82652-20	5-W-18-121118	Water	12/11/18 15:35	12/13/18 17:30
580-82652-21	5-W-55-121118	Water	12/11/18 16:45	12/13/18 17:30
580-82652-22	5-W-56-121118	Water	12/11/18 17:12	12/13/18 17:30
580-82652-23	5-W-43-121118	Water	12/11/18 12:35	12/13/18 17:30
580-82652-24	1C-W-1-121218	Water	12/12/18 09:40	12/13/18 17:30
580-82652-25	1C-W-8-121218	Water	12/12/18 09:41	12/13/18 17:30
580-82652-26	5-W-51-121218	Water	12/12/18 09:51	12/13/18 17:30
580-82652-27	1B-W-3-121218	Water	12/12/18 10:40	12/13/18 17:30
580-82652-28	2A-W-41-121218	Water	12/12/18 11:01	12/13/18 17:30
580-82652-29	2A-W-410-121218	Water	12/12/18 11:20	12/13/18 17:30
580-82652-30	5-W-17-121218	Water	12/12/18 11:03	12/13/18 17:30
580-82652-31	FWG-WV-121218	Water	12/12/18 11:40	12/13/18 17:30
580-82652-32	FWG-EV-121218	Water	12/12/18 12:40	12/13/18 17:30
580-82652-33	WG-WV-121218	Water	12/12/18 13:15	12/13/18 17:30
580-82652-34	WG-EV-121218	Water	12/12/18 12:40	12/13/18 17:30
580-82652-35	2B-W-4-121218	Water	12/12/18 12:23	12/13/18 17:30
580-82652-36	5-W-16-121218	Water	12/12/18 12:24	12/13/18 17:30
580-82652-37	5-W-14-121218	Water	12/12/18 13:27	12/13/18 17:30
580-82652-38	S2-AD-121218	Water	12/12/18 13:40	12/13/18 17:30
580-82652-39	S2-AU-121218	Water	12/12/18 13:13	12/13/18 17:30
580-82652-40	S2-BD-121218	Water	12/12/18 13:55	12/13/18 17:30
580-82652-41	S2-BU-121218	Water	12/12/18 13:55	12/13/18 17:30

TestAmerica Seattle

5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

3/4

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler:		Lab PM: Allen, Kristine D		Carrier Tracking No(s):		COC No: 580-31572-9988.3	
Client Contact: jeanette Mullin		Phone:		E-Mail: kristine.allen@testamericainc.com				Page: Page 3 of 5	
Company: Farallon Consulting LLC		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) NWTPH, Dx - Standard reporting list for NWTPH-Dx SGC (Silver Gel Cleanup)		Total Number of containers		Analysis Requested Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - Di Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
Address: 975 5th Avenue NW Suite 100		TAT Requested (days): <i>Standard</i>							
City: Issaquah		PO #: TT0100-Q12							
State, Zip: WA, 98027		WO #: Tax Code 8800 BF10007215							
Phone:		Project #: 58006391							
Email: jmullin@farallonconsulting.com		SSOW#:							
Project Name: BNSF Skykomish Ground Water		Site: Washington							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, D=waste/oil, BT=Tissue, A=Air)	
								Preservation Code:	
5-W-43-12118		12/11/18		1235		G		Water	
1C-W-1-121218		12/12/18		0940				Water	
1C-W-8-121218		12/12/18		0941				Water	
5-W-51-121218		12/12/18		0951				Water	
1B-W-3-121218		12/12/18		1040				Water	
2A-W-41-121218		12/12/18		1101				Water	
2A-W-410-121218		12/12/18		1120				Water	
S-W-17-121218		12/12/18		1103				Water	
FWG-WV-121218		12/12/18		1140				Water	
FWG-EV-121218		12/12/18		1240				Water	
WG-WV-121218		12/12/18		1315		V		Water	
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 12/12/18 @ 635		Company: Farallon		Received by: <i>[Signature]</i>		Date/Time: 12/13/18 1730	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					

Therm. ID: A2 Cor: 1.7 ° Unc: 1.9 °
Cooler Dsc: Lg Green FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other: _____

Therm. ID: A2 Cor: 1.2 ° Unc: 0.14 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour: _____
Blue Ice, Wet, Dry, None Other: _____

Therm. ID: A2 Cor: 0.5 ° Unc: 0.7 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other: _____

Therm. ID: A2 Cor: 1.5 ° Unc: 1.7 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour: _____
Blue Ice, Wet, Dry, None Other: _____

Therm. ID: A2 Cor: 2.5 ° Unc: 2.7 °
Cooler Dsc: Lg Red FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other: _____

Therm. ID: A2 Cor: 1.7 ° Unc: 1.9 °
Cooler Dsc: Lg Green FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour: _____
Blue Ice, Wet, Dry, None Other: _____

Therm. ID: A2 Cor: 2.0 ° Unc: 2.2 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other: _____

Therm. ID: A2 Cor: 0.3 ° Unc: 0.5 °
Cooler Dsc: Lg Green FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other: _____

Therm. ID: A2 Cor: 2.0 ° Unc: 2.2 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour: _____
Blue Ice, Wet, Dry, None Other: _____

Therm. ID: A2 Cor: 1.1 ° Unc: 1.3 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other: _____

Therm. ID: A2 Cor: 0.8 ° Unc: 1.0 °
Cooler Dsc: Lg Green FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour: _____
Blue Ice, Wet, Dry, None Other: _____



Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-82652-1

Login Number: 82652

List Source: TestAmerica Seattle

List Number: 1

Creator: Gall, Brandon A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-82660-1

Client Project/Site: BNSF Skykomish Ground Water

For:

Farallon Consulting LLC
1809 7th Ave. Suite 1111
Seattle, Washington 98101

Attn: Rob Leet



Authorized for release by:
12/28/2018 10:49:27 AM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

LINKS

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results through
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Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	22
Chronicle	24
Certification Summary	27
Sample Summary	28
Chain of Custody	29
Receipt Checklists	32

Case Narrative

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Job ID: 580-82660-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative 580-82660-1

Comments

No additional comments.

Receipt

The samples were received on 12/13/2018 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 0.3° C, 0.5° C, 0.8° C, 1.1° C, 1.2° C, 1.5° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C and 2.5° C.

GC Semi VOA

Method(s) NWTPH-Dx: The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: S3-CU-121318 (580-82660-10).

Method(s) NWTPH-Dx: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 580-291573 and analytical batch 580-292099 recovered outside control limits for the following analytes: #2 Diesel (C10-C24) and Motor Oil (>C24-C36). The individual recoveries of both the LCS and LCSD met the acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S1-BU-121218

Lab Sample ID: 580-82660-1

Date Collected: 12/12/18 16:00

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 01:03	1
Motor Oil (>C24-C36)	ND	*	0.092	0.092	mg/L		12/19/18 14:58	12/28/18 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	96		50 - 150				12/19/18 14:58	12/28/18 01:03	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S1-BD-121218

Lab Sample ID: 580-82660-2

Date Collected: 12/12/18 16:00

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 01:25	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/28/18 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	82		50 - 150				12/19/18 14:58	12/28/18 01:25	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S1-AU-121218

Lab Sample ID: 580-82660-3

Date Collected: 12/12/18 16:00

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 01:46	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/28/18 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	95		50 - 150				12/19/18 14:58	12/28/18 01:46	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S1-AD-121218

Lab Sample ID: 580-82660-4

Date Collected: 12/12/18 16:06

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 02:29	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/28/18 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		50 - 150				12/19/18 14:58	12/28/18 02:29	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S3-AU-121318

Lab Sample ID: 580-82660-5

Date Collected: 12/13/18 08:45

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 02:51	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/28/18 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	97		50 - 150				12/19/18 14:58	12/28/18 02:51	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S3-AD-121318

Lab Sample ID: 580-82660-6

Date Collected: 12/13/18 08:50

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		12/21/18 09:08	12/22/18 06:21	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/21/18 09:08	12/22/18 06:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		50 - 150				12/21/18 09:08	12/22/18 06:21	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S3-BD-121318

Lab Sample ID: 580-82660-7

Date Collected: 12/13/18 09:00

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		12/21/18 09:08	12/22/18 06:43	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/21/18 09:08	12/22/18 06:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	99		50 - 150				12/21/18 09:08	12/22/18 06:43	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S3-BU-121318

Lab Sample ID: 580-82660-8

Date Collected: 12/13/18 09:03

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		12/21/18 09:08	12/22/18 07:04	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/21/18 09:08	12/22/18 07:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		50 - 150				12/21/18 09:08	12/22/18 07:04	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S3-CD-121318

Lab Sample ID: 580-82660-9

Date Collected: 12/13/18 09:15

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061	0.061	mg/L		12/21/18 09:08	12/22/18 07:26	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/21/18 09:08	12/22/18 07:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	99		50 - 150				12/21/18 09:08	12/22/18 07:26	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S3-CU-121318

Lab Sample ID: 580-82660-10

Date Collected: 12/13/18 09:20

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.062		0.062	0.062	mg/L		12/21/18 09:08	12/22/18 07:47	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		12/21/18 09:08	12/22/18 07:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	89		50 - 150				12/21/18 09:08	12/22/18 07:47	1

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Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S4-AU-121318

Lab Sample ID: 580-82660-11

Date Collected: 12/13/18 10:10

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 03:12	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/28/18 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	99		50 - 150				12/19/18 14:58	12/28/18 03:12	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S4-AD-121318

Lab Sample ID: 580-82660-12

Date Collected: 12/13/18 10:10

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 03:34	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/28/18 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		50 - 150				12/19/18 14:58	12/28/18 03:34	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S4-BD-121318

Lab Sample ID: 580-82660-13

Date Collected: 12/13/18 10:12

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.061	0.061	mg/L		12/19/18 14:58	12/28/18 03:55	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/28/18 03:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		50 - 150				12/19/18 14:58	12/28/18 03:55	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S4-BU-121318

Lab Sample ID: 580-82660-14

Date Collected: 12/13/18 10:15

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 04:17	1
Motor Oil (>C24-C36)	ND	*	0.092	0.092	mg/L		12/19/18 14:58	12/28/18 04:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	89		50 - 150				12/19/18 14:58	12/28/18 04:17	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S4-CU-121318

Lab Sample ID: 580-82660-15

Date Collected: 12/13/18 10:41

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 04:39	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/28/18 04:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	86		50 - 150				12/19/18 14:58	12/28/18 04:39	1



Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S4-CD-121318

Lab Sample ID: 580-82660-16

Date Collected: 12/13/18 10:50

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.061	0.061	mg/L		12/19/18 14:58	12/28/18 05:01	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/28/18 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		50 - 150				12/19/18 14:58	12/28/18 05:01	1

Client Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: MW-555-121813

Lab Sample ID: 580-82660-17

Date Collected: 12/13/18 11:10

Matrix: Water

Date Received: 12/13/18 17:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*	0.062	0.062	mg/L		12/19/18 14:58	12/28/18 05:23	1
Motor Oil (>C24-C36)	ND	*	0.091	0.091	mg/L		12/19/18 14:58	12/28/18 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	105		50 - 150				12/19/18 14:58	12/28/18 05:23	1

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-291573/1-A
Matrix: Water
Analysis Batch: 292099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 291573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		12/19/18 14:58	12/27/18 21:49	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		12/19/18 14:58	12/27/18 21:49	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	109		50 - 150				12/19/18 14:58	12/27/18 21:49	1

Lab Sample ID: LCS 580-291573/2-A
Matrix: Water
Analysis Batch: 292099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 291573

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.486		mg/L		97	50 - 120
Motor Oil (>C24-C36)	0.500	0.543		mg/L		109	64 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl	115		50 - 150				

Lab Sample ID: LCSD 580-291573/3-A
Matrix: Water
Analysis Batch: 292099

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 291573

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.323	*	mg/L		65	50 - 120	40	26
Motor Oil (>C24-C36)	0.500	0.378	*	mg/L		76	64 - 120	36	24
Surrogate	%Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	87		50 - 150						

Lab Sample ID: MB 580-291816/1-A
Matrix: Water
Analysis Batch: 291853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 291816

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		12/21/18 09:08	12/22/18 05:17	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		12/21/18 09:08	12/22/18 05:17	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	96		50 - 150				12/21/18 09:08	12/22/18 05:17	1

Lab Sample ID: LCS 580-291816/2-A
Matrix: Water
Analysis Batch: 291853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 291816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	0.500	0.437		mg/L		87	50 - 120
Motor Oil (>C24-C36)	0.500	0.481		mg/L		96	64 - 120

TestAmerica Seattle

QC Sample Results

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-291816/2-A

Matrix: Water

Analysis Batch: 291853

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 291816

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	85		50 - 150

Lab Sample ID: LCSD 580-291816/3-A

Matrix: Water

Analysis Batch: 291853

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 291816

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
#2 Diesel (C10-C24)	0.500	0.455		mg/L		91	50 - 120	4	26
Motor Oil (>C24-C36)	0.500	0.507		mg/L		101	64 - 120	5	24

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	89		50 - 150

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S1-BU-121218

Lab Sample ID: 580-82660-1

Date Collected: 12/12/18 16:00

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 01:03	ERZ	TAL SEA

Client Sample ID: S1-BD-121218

Lab Sample ID: 580-82660-2

Date Collected: 12/12/18 16:00

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 01:25	ERZ	TAL SEA

Client Sample ID: S1-AU-121218

Lab Sample ID: 580-82660-3

Date Collected: 12/12/18 16:00

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 01:46	ERZ	TAL SEA

Client Sample ID: S1-AD-121218

Lab Sample ID: 580-82660-4

Date Collected: 12/12/18 16:06

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 02:29	ERZ	TAL SEA

Client Sample ID: S3-AU-121318

Lab Sample ID: 580-82660-5

Date Collected: 12/13/18 08:45

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 02:51	ERZ	TAL SEA

Client Sample ID: S3-AD-121318

Lab Sample ID: 580-82660-6

Date Collected: 12/13/18 08:50

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291816	12/21/18 09:08	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291853	12/22/18 06:21	T1W	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S3-BD-121318

Lab Sample ID: 580-82660-7

Date Collected: 12/13/18 09:00

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291816	12/21/18 09:08	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291853	12/22/18 06:43	T1W	TAL SEA

Client Sample ID: S3-BU-121318

Lab Sample ID: 580-82660-8

Date Collected: 12/13/18 09:03

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291816	12/21/18 09:08	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291853	12/22/18 07:04	T1W	TAL SEA

Client Sample ID: S3-CD-121318

Lab Sample ID: 580-82660-9

Date Collected: 12/13/18 09:15

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291816	12/21/18 09:08	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291853	12/22/18 07:26	T1W	TAL SEA

Client Sample ID: S3-CU-121318

Lab Sample ID: 580-82660-10

Date Collected: 12/13/18 09:20

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291816	12/21/18 09:08	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	291853	12/22/18 07:47	T1W	TAL SEA

Client Sample ID: S4-AU-121318

Lab Sample ID: 580-82660-11

Date Collected: 12/13/18 10:10

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 03:12	ERZ	TAL SEA

Client Sample ID: S4-AD-121318

Lab Sample ID: 580-82660-12

Date Collected: 12/13/18 10:10

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 03:34	ERZ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Farallon Consulting LLC
 Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Client Sample ID: S4-BD-121318

Lab Sample ID: 580-82660-13

Date Collected: 12/13/18 10:12

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 03:55	ERZ	TAL SEA

Client Sample ID: S4-BU-121318

Lab Sample ID: 580-82660-14

Date Collected: 12/13/18 10:15

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 04:17	ERZ	TAL SEA

Client Sample ID: S4-CU-121318

Lab Sample ID: 580-82660-15

Date Collected: 12/13/18 10:41

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 04:39	ERZ	TAL SEA

Client Sample ID: S4-CD-121318

Lab Sample ID: 580-82660-16

Date Collected: 12/13/18 10:50

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 05:01	ERZ	TAL SEA

Client Sample ID: MW-555-121813

Lab Sample ID: 580-82660-17

Date Collected: 12/13/18 11:10

Matrix: Water

Date Received: 12/13/18 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			291573	12/19/18 14:58	KO	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	292099	12/28/18 05:23	ERZ	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Laboratory: TestAmerica Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-19
Montana (UST)	State Program	8	N/A	04-30-20
Nevada	State Program	9	WA000502019-1	07-31-19
Oregon	NELAP	10	WA100007	11-05-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-82660-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-82660-1	S1-BU-121218	Water	12/12/18 16:00	12/13/18 17:30
580-82660-2	S1-BD-121218	Water	12/12/18 16:00	12/13/18 17:30
580-82660-3	S1-AU-121218	Water	12/12/18 16:00	12/13/18 17:30
580-82660-4	S1-AD-121218	Water	12/12/18 16:06	12/13/18 17:30
580-82660-5	S3-AU-121318	Water	12/13/18 08:45	12/13/18 17:30
580-82660-6	S3-AD-121318	Water	12/13/18 08:50	12/13/18 17:30
580-82660-7	S3-BD-121318	Water	12/13/18 09:00	12/13/18 17:30
580-82660-8	S3-BU-121318	Water	12/13/18 09:03	12/13/18 17:30
580-82660-9	S3-CD-121318	Water	12/13/18 09:15	12/13/18 17:30
580-82660-10	S3-CU-121318	Water	12/13/18 09:20	12/13/18 17:30
580-82660-11	S4-AU-121318	Water	12/13/18 10:10	12/13/18 17:30
580-82660-12	S4-AD-121318	Water	12/13/18 10:10	12/13/18 17:30
580-82660-13	S4-BD-121318	Water	12/13/18 10:12	12/13/18 17:30
580-82660-14	S4-BU-121318	Water	12/13/18 10:15	12/13/18 17:30
580-82660-15	S4-CU-121318	Water	12/13/18 10:41	12/13/18 17:30
580-82660-16	S4-CD-121318	Water	12/13/18 10:50	12/13/18 17:30
580-82660-17	MW-555-121813	Water	12/13/18 11:10	12/13/18 17:30

TestAmerica Seattle

5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

Loc: 580
82660

1/2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: ABCB		Lab PM: Allen, Kristine D		Carrier Tracking No(s):		COC No: 580-31572-9988.5	
Client Contact: jeannette Mullin		Phone:		E-Mail: kristine.allen@testamericainc.com				Page: Page 5 of 5	
Company: Farallon Consulting LLC								Job #:	
Address: 975 5th Avenue NW Suite 100		Due Date Requested:				Analysis Requested		Preservation Codes:	
City: Issaquah		TAT Requested (days): Standard							
State, Zip: WA, 98027		PO #: TT0100-Q12							
Email: jmullin@farallonconsulting.com		WO #:							
Project Name: BNSF Skykomish Ground Water		Tax Code 8800 BF10007215							
Site: Washington		Project #: 58006391						Special Instructions/Note:	
		SSOW#:							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
								Field Filtered Sample (Yes or No)	
								Perform MSA/MSD (Yes or No)	
								NWTPH_Dx - Standard reporting list for NWTPH-Dx	
								Total Number of Containers	
SI-BU-121218		12/12/18		1600		G		Water	
SI-BD-121218		↓		1600		↓		Water	
SI-AU-121218		↓		1600		↓		Water	
SI-AD-121218		↓		1606		↓			
S3-AU-121318		12/13/18		0845		↓			
S3-AD-121318		↓		0850		↓			
S3-BD-121318		↓		0900		↓			
S3-BU-121318		↓		0903		↓			
S3-CD-121318		↓		0915		↓			
S3-CU-121318		↓		0920		↓			
S4-AU-121318		↓		1010		↓		↓	
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>Antie Bailey</i>		Date/Time: 12/13/18 @ 1332		Company: Farallon		Received by: <i>Tom Hanky</i>		Date/Time: 12/13/18 1730	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					



Client: Faallan Consulting Client Contact: BNSF Date: 12/13/18 Chain of Custody Number: 35188
 Address: 975 5th AVE NW Telephone Number (Area Code)/Fax Number: _____ Lab Number: _____
 City: Tosachuan State: WA Zip Code: 98027 Sampler: AB/CB Lab Contact: Krishne Allen Page 2 of 2
 Project Name and Location (State): Styrumish Groundwater Billing Contact: BNSF Analysis (Attach list if more space is needed): _____
 Contract/Purchase Order/Quote No.: TT0100-012/58006391 Matrix: _____ Containers & Preservatives: _____
 Sample I.D. and Location/Description (Containers for each sample may be combined on one line) Date Time Matrix Containers & Preservatives

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sec.	Soil	Water	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc/ NaOH
1. SY-AD-121318	12/13/18	1010					X			X			X	Special Instructions/ Conditions of Receipt
2. SY-BD-121318		1012					X			X			X	
3. SY-BU-121318		1015					X			X			X	
4. SY-CU-121318		1041					X			X			X	
5. SY-CD-121318		1050					X			X			X	
6. MW-555-121813		1110					X			X			X	

AS3

Cooler: Yes No Cooler Temp: _____ Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): 24 Hours 48 Hours 5 Days 10 Days 15 Days Other Standard QC Requirements (Specify): _____

1. Relinquished By Sign/Print: <u>Amber Bailey</u> Date: <u>12/13/18</u> Time: <u>1332</u>	1. Received By Sign/Print: <u>Tom [Signature]</u> Date: <u>12/13/18</u> Time: <u>1730</u>
2. Relinquished By Sign/Print: _____ Date: _____ Time: _____	2. Received By Sign/Print: _____ Date: _____ Time: _____
3. Relinquished By Sign/Print: _____ Date: _____ Time: _____	3. Received By Sign/Print: _____ Date: _____ Time: _____

Comments: _____

Therm. ID: A2 Cor: 1.7 ° Unc: 1.9 °
Cooler Dsc: Lg Green FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other:

Therm. ID: A2 Cor: 1.2 ° Unc: 0.14 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other:

Therm. ID: A2 Cor: 0.5 ° Unc: 0.7 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other:

Therm. ID: A2 Cor: 1.5 ° Unc: 1.7 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other:

Therm. ID: A2 Cor: 2.5 ° Unc: 2.7 °
Cooler Dsc: Lg Red FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other:

Therm. ID: A2 Cor: 1.7 ° Unc: 1.9 °
Cooler Dsc: Lg Green FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other:

Therm. ID: A2 Cor: 2.0 ° Unc: 2.2 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other:

Therm. ID: A2 Cor: 0.3 ° Unc: 0.5 °
Cooler Dsc: Lg Green FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other:

Therm. ID: A2 Cor: 2.0 ° Unc: 2.2 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other:

Therm. ID: A2 Cor: 1.1 ° Unc: 1.3 °
Cooler Dsc: Lg Blue FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other:

Therm. ID: A2 Cor: 0.8 ° Unc: 1.0 °
Cooler Dsc: Lg Green FedEx:
Packing: bub UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice, Wet, Dry, None Other:

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-82660-1

Login Number: 82660

List Source: TestAmerica Seattle

List Number: 1

Creator: Gall, Brandon A

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



APPENDIX B
DATA VALIDATION REPORTS

2018 SITE-WIDE GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-067



DATA VALIDATION REPORT

Skykomish Groundwater Monitoring March 2018 Data

Prepared for:
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, Washington 98027

June 4, 2018

1.0 Introduction

Data Validation was performed on the following water samples:

Sample ID	Sample Date/Time	Lab ID	Analyses
S1-BD-032618	03/26/2018 14:22	580-76198-1	TPH-Dx
S3-AU-032618	03/26/2018 16:17	580-76198-10	TPH-Dx
S3-BD-032618	03/26/2018 16:20	580-76198-11	TPH-Dx
S3-BU-032618	03/26/2018 16:19	580-76198-12	TPH-Dx
S3-CD-032618	03/26/2018 17:01	580-76198-13	TPH-Dx
S3-CU-032618	03/26/2018 17:02	580-76198-14	TPH-Dx
S4-AD-032718	03/27/2018 09:05	580-76198-15	TPH-Dx
S4-AU-032718	03/27/2018 09:10	580-76198-16	TPH-Dx
S4-CU-032718	03/27/2018 09:05	580-76198-17	TPH-Dx
S4-CD-032718	03/27/2018 09:08	580-76198-18	TPH-Dx
S4-BU-032718	03/27/2018 09:45	580-76198-19	TPH-Dx
S1-BU-032618	03/26/2018 14:23	580-76198-2	TPH-Dx
S4-BD-032718	03/27/2018 09:47	580-76198-20	TPH-Dx
MW-3-032718	03/27/2018 10:25	580-76198-21	TPH-Dx
MW-4-032718	03/27/2018 10:25	580-76198-22	TPH-Dx
MW-30-032718	03/27/2018 10:30	580-76198-23	TPH-Dx
2A-W-10-032718	03/27/2018 12:05	580-76198-24	TPH-Dx
2A-W-9-032718	03/27/2018 12:10	580-76198-25	TPH-Dx
5-W-17-032718	03/27/2018 12:20	580-76198-26	TPH-Dx
5-W-16-032718	03/27/2018 12:21	580-76198-27	TPH-Dx
5-W-19-032718	03/27/2018 11:02	580-76198-28	TPH-Dx
5-W-18-032718	03/27/2018 11:05	580-76198-29	TPH-Dx
S1-AU-032618	03/26/2018 14:26	580-76198-3	TPH-Dx
EW-2A-032718	03/27/2018 13:25	580-76198-30	TPH-Dx
GW-4-032718	03/27/2018 13:25	580-76198-31	TPH-Dx
5-W-55-032718	03/27/2018 13:40	580-76198-32	TPH-Dx
5-W-54-032718	03/27/2018 13:26	580-76198-33	TPH-Dx
1C-W-1-032718	03/27/2018 15:15	580-76198-34	TPH-Dx
1C-W-8-032718	03/27/2018 15:23	580-76198-35	TPH-Dx
1C-W-3-032718	03/27/2018 16:10	580-76198-36	TPH-Dx

Sample ID	Sample Date/Time	Lab ID	Analyses
1C-W-4-032718	03/27/2018 16:17	580-76198-37	TPH-Dx
5-W-43-032718	03/27/2018 15:25	580-76198-38	TPH-Dx
EW-1-032718	03/27/2018 15:26	580-76198-39	TPH-Dx
S1-AD-032618	03/26/2018 14:26	580-76198-4	TPH-Dx
EW-10-032718	03/27/2018 15:32	580-76198-40	TPH-Dx
MW-555-032718	03/27/2018 17:00	580-76198-41	TPH-Dx
5-W-56-032718	03/27/2018 16:55	580-76198-42	TPH-Dx
5-W-51-032718	03/27/2018 17:01	580-76198-43	TPH-Dx
1C-W-7-032818	03/28/2018 09:10	580-76198-44	TPH-Dx
2A-W-42-032818	03/28/2018 09:18	580-76198-45	TPH-Dx
1B-W-3-032818	03/28/2018 10:15	580-76198-46	TPH-Dx
1B-W-2-032818	03/28/2018 10:15	580-76198-47	TPH-Dx
1B-W-23-032818	03/28/2018 11:25	580-76198-48	TPH-Dx
GW-3-032818	03/28/2018 11:25	580-76198-49	TPH-Dx, TPH-Dx (SG)
S2-AD-032618	03/26/2018 15:11	580-76198-5	TPH-Dx
GW-30-032818	03/28/2018 11:25	580-76198-50	TPH-Dx
5-W-14-032818	03/28/2018 09:11	580-76198-51	TPH-Dx
5-W-15-032818	03/28/2018 09:20	580-76198-52	TPH-Dx
5-W-150-032818	03/28/2018 09:25	580-76198-53	TPH-Dx
MW-38R-032818	03/28/2018 10:44	580-76198-54	TPH-Dx
GW-1-032818	03/28/2018 10:30	580-76198-55	TPH-Dx
GW-2-032818	03/28/2018 11:25	580-76198-56	TPH-Dx
GW-20-032818	03/28/2018 11:30	580-76198-57	TPH-Dx
2A-W-40-032818	03/28/2018 11:48	580-76198-58	TPH-Dx
2A-W-41-032818	03/28/2018 12:45	580-76198-59	TPH-Dx, TPH-Dx (SG)
S2-AU-032618	03/26/2018 15:12	580-76198-6	TPH-Dx
2A-W-410-032818	03/28/2018 12:52	580-76198-60	TPH-Dx
1A-W-4-032818	03/28/2018 12:50	580-76198-61	TPH-Dx
2B-W-4-032818	03/28/2018 12:52	580-76198-62	TPH-Dx
MW-16-032818	03/28/2018 13:00	580-76198-63	TPH-Dx
S2-BU-032618	03/26/2018 15:16	580-76198-7	TPH-Dx
S2-BD-032618	03/26/2018 15:16	580-76198-8	TPH-Dx
S3-AD-032618	03/26/2018 16:17	580-76198-9	TPH-Dx

Samples were analyzed by Test America, Tacoma, Washington.

A stage 2A summary validation was performed on the analytical results including both the hardcopy (portable document format) and electronic data deliverable, earning EPA OSWER validation label code S2AVEM. Validation was performed by Cari Saylor.

Data qualifiers are assigned based only on the criteria reviewed and do not include calibration or instrument performance issues unless noted in the laboratory narrative.

Data qualifiers are summarized in section 4.0 of this report.

2.0 Precision, Accuracy, Representativeness, Comparability, and Completeness

Sample analysis frequencies: Quarterly sampling includes 26 water sample locations, and semi-annual sampling includes an additional 31 water sample locations. Additionally, 20 of the 31 semi-annual locations are sentry wells which must be sampled if the HCC system has been down for more than 48 hours in the previous quarter. For this round of sampling, both quarterly and semi-annual locations were required. Samples were collected from all required locations

except 5-W-50 and the required analysis was completed by the laboratory for each collected sample.

Analysis methods: Samples were analyzed by method NWTPH-Dx and prepared by method SW3510C. Two samples were analyzed both with and without silica gel cleanup method SW3630C. These methods are approved EPA methods and therefore meet comparability requirements.

Precision, accuracy and completeness: Accuracy measurements were within control limits. Results were estimated due to laboratory control sample RPDs. A data completeness of 98.2% was calculated based on 56 of 57 intended sample analyses completed. This meets the project goal of 90%.

3.0 Diesel Range Petroleum Hydrocarbon Analysis

Quality control analysis frequencies: The method specifies that a method blank must be analyzed one per analytical batch or one per twenty samples, whichever is more frequent, and a laboratory duplicate must be analyzed one per ten samples. In addition, surrogate compounds must be measured in each field and quality control sample.

Each batch included a method blank, laboratory control sample (LCS), and LCS duplicate (LCSD), as well as appropriate surrogates. Data qualifiers are not required based on the lack of laboratory duplicate results.

Holding times: Unpreserved water samples must be extracted within 7 days of collection. Preserved water samples must be extracted within 14 days of collection. Extracts must be analyzed within 40 days of extraction. Samples were extracted and analyzed within holding time.

Laboratory and method blank results: Criteria for blanks are that analyte concentrations must be below the PQL, or below 5% of the lowest associated sample concentration. No target compounds were detected in the field blank or method blanks.

Surrogate recoveries: Laboratory control limits ranged were 50-150%. Surrogate recoveries were within limits.

LCS recoveries: Laboratory control limits ranged from 59-112% to 64-120%. LCS recoveries were within limits.

LCS/LCSD RPDs: The laboratory control limit ranged from <16 to <17%. LCS/LCSD RPD values were within limits with the following exceptions:

QC ID	Analyte	RPD	Lab Control Limit
TPH-Dx			
LCSD 580-270677/3-A	Motor Oil (>C24-C36)	22	17
LCSD 580-270677/3-A	#2 Diesel (C10-C24)	23	16
TPH-Dx with silica gel cleanup			
LCSD 580-270942/3-B	#2 Diesel (C10-C24)	20	16
LCSD 580-270942/3-B	Motor Oil (>C24-C36)	23	17

Positive results in the associated samples are qualified as estimated.

Field duplicate RPDs: For concentrations below five times the reporting limits, concentrations were within +/- two times the reporting limit. For concentrations above five times the reporting limit, RPDs were below 50%.

Multiple reported results: No multiple reported results were present in this laboratory report.

Reporting limits: The reporting limit goals are 0.1 mg/L for both diesel range hydrocarbons and oil range hydrocarbons. These goals were met.

Laboratory narrative and flags: According to the laboratory narrative, the following outliers were observed in the calibration data:

The % drift for o-Terphenyl was outside control limits in the continuing calibration verification standards associated with batches 580-270910 and 580-271123. No qualifiers are assigned on the basis of this surrogate.

The % drift for #2 Diesel (C10-C24) and Motor Oil (>C24-C36) exceeded control limits in the continuing calibration verification standards associated with batch 580-270910. These analytes were not detected in the associated samples and no qualifiers are assigned.

Diesel and oil range petroleum hydrocarbon data are acceptable for use as qualified.

4.0 Qualifier Summary

Client ID	Analyte(s)	Qualifier	Reason
S2-BU-032618	Motor Oil (>C24-C36)	J	High LCS/LCSD RPD
S3-BD-032618	Motor Oil (>C24-C36)	J	High LCS/LCSD RPD
S4-BU-032718	Motor Oil (>C24-C36)	J	High LCS/LCSD RPD

5.0 Abbreviations and Definitions

<u>DV Qualifier</u>	<u>Definition</u>
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample reporting limit or the amount of contaminant detected in the sample.
J	The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
UJ	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The sample result is rejected. The presence or absence of the analyte cannot be verified and data are not usable.
R1	The sample result has been replaced by a more reliable or more conservative result.
R2	The sample result has been replaced by a result from a different analysis method.

<u>Abbreviation</u>	<u>Definition</u>
DV	Data Validation

<u>Abbreviation</u>	<u>Definition</u>
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
MS	Matrix spike
MSD	Matrix spike duplicate
RL	Reporting limit
RPD	Relative percent difference
RSD	Relative standard deviation

6.0 References

USEPA Contract Laboratory Program National Functional Guidelines For Superfund Organic Methods Data Review, Office of Superfund Remediation and Technology Innovation, U.S. Environmental Protection Agency, June 2008, USEPA-540-R-008-01.

USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, January 2009, EPA 540-R-08-005.



DATA VALIDATION REPORT

Skykomish Groundwater Monitoring June 2018 Data

Prepared for:
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, Washington 98027

September 17, 2018

1.0 Introduction

Data Validation was performed on the following water samples:

Sample ID	Sample Date/Time	Lab ID	Analyses
1B-W-23-062018	06/20/2018 11:00	580-78310-24	TPH-Dx
1B-W-3-062018	06/20/2018 10:50	580-78310-23	TPH-Dx
1C-W-1-062018	06/20/2018 13:00	580-78310-29	TPH-Dx
1C-W-7-062018	06/20/2018 12:25	580-78310-27	TPH-Dx
1C-W-8-062018	06/20/2018 12:45	580-78310-28	TPH-Dx
2A-W-10-061918	06/19/2018 11:30	580-78310-4	TPH-Dx
2A-W-40-061918	06/19/2018 16:59	580-78310-14	TPH-Dx
2A-W-410-062018	06/20/2018 10:12	580-78310-22	TPH-Dx
2A-W-41-062018	06/20/2018 09:53	580-78310-21	TPH-Dx, TPH-Dx w/SG
2A-W-42-062018	06/20/2018 12:00	580-78310-26	TPH-Dx
2A-W-9-061918	06/19/2018 12:05	580-78310-7	TPH-Dx
2B-W-4-061918	06/19/2018 09:55	580-78310-1	TPH-Dx
5-W-14--061918	06/19/2018 14:45	580-78310-8	TPH-Dx
5-W-15-061918	06/19/2018 16:00	580-78310-13	TPH-Dx
5-W-16-061918	06/19/2018 14:45	580-78310-9	TPH-Dx
5-W-17-061918	06/19/2018 15:02	580-78310-10	TPH-Dx
5-W-18-061918	06/19/2018 12:50	580-78310-5	TPH-Dx
5-W-19-061918	06/19/2018 12:56	580-78310-6	TPH-Dx
5-W-43-061918	06/19/2018 15:52	580-78310-11	TPH-Dx
EW-1-061918	06/19/2018 15:55	580-78310-12	TPH-Dx
EW-2A-062018	06/20/2018 09:30	580-78310-18	TPH-Dx
GW-1-061918	06/19/2018 17:00	580-78310-15	TPH-Dx
GW-20-061918	06/19/2018 17:10	580-78310-17	TPH-Dx
GW-2-061918	06/19/2018 16:57	580-78310-16	TPH-Dx
GW-3-062018	06/20/2018 09:35	580-78310-19	TPH-Dx, TPH-Dx w/SG
GW-30-062018	06/20/2018 09:45	580-78310-20	TPH-Dx
GW-4-062018	06/20/2018 11:27	580-78310-25	TPH-Dx
MW-3-061918	06/19/2018 10:05	580-78310-2	TPH-Dx
MW-4-061918	06/19/2018 11:05	580-78310-3	TPH-Dx
MW-555-062018	06/20/2018 13:30	580-78310-30	TPH-Dx

Samples were analyzed by Test America, Tacoma, Washington.

A stage 2A summary validation was performed on the analytical results including both the hardcopy (portable document format) and electronic data deliverable, earning EPA OSWER validation label code S2AVEM. Validation was performed by Cari Saylor.

Data qualifiers are assigned based only on the criteria reviewed and do not include calibration or instrument performance issues unless noted in the laboratory narrative.

No data qualifiers were assigned during this review.

2.0 Precision, Accuracy, Representativeness, Comparability, and Completeness

Sample analysis frequencies: Quarterly sampling includes 26 water sample locations, and semi-annual sampling includes an additional 31 water sample locations. Additionally, 20 of the 31 semi-annual locations are sentry wells which must be sampled if the HCC system has been down for more than 48 hours in the previous quarter. For this round of sampling, only quarterly locations were required. Samples were collected from all required locations and the required analysis was completed by the laboratory for each collected sample.

Analysis methods: Each sample was analyzed by method NWTPH-Dx and prepared by method SW3510C. These methods are approved EPA methods and therefore meet comparability requirements. Additionally, samples 2A-W-41-062018 and GW-3-062018 were prepared with method SW3510C a second time, cleaned up with method SW3630C (silica gel) and analyzed by NWTPH-Dx.

Precision, accuracy and completeness: Accuracy and precision measurements were within control limits. A data completeness of 100% was calculated based on 26 of 26 intended sample analyses completed. This meets the project goal of 90%.

3.0 Diesel Range Petroleum Hydrocarbon Analysis

Quality control analysis frequencies: The method specifies that a method blank must be analyzed one per analytical batch or one per twenty samples, whichever is more frequent, and a laboratory duplicate must be analyzed one per ten samples. In addition, surrogate compounds must be measured in each field and quality control sample.

Each batch included a method blank, laboratory control sample (LCS), and LCS duplicate (LCSD), as well as appropriate surrogates. Data qualifiers are not required due to a lack of laboratory duplicate results.

Holding times: Unpreserved water samples must be extracted within 7 days of collection. Preserved water samples must be extracted within 14 days of collection. Extracts must be analyzed within 40 days of extraction. Samples were extracted and analyzed within holding time.

Laboratory and field blank results: Criteria for blanks are that analyte concentrations must be below the PQL, or below 5% of the lowest associated sample concentration. No target compounds were detected in the method or field blanks.

Surrogate recoveries: Laboratory control limits ranged were 50-150%. Surrogate recoveries were within limits.

LCS recoveries: Laboratory control limits ranged from 50-120% to 64-120%. LCS recoveries were within limits.

LCS/LCSD RPDs: The laboratory control limit ranged from <24 to <26%. LCS/LCSD RPD values were within limits.

Field duplicate RPDs: For concentrations below five times the reporting limits, concentrations were within +/- two times the reporting limit. For concentrations above five times the reporting limit, RPDs were below 50%.

Multiple reported results: No multiple reported results were present in this laboratory report.

Reporting limits: The reporting limit goals are 0.1 mg/L for both diesel range hydrocarbons and oil range hydrocarbons. These goals were met.

Laboratory narrative and flags: No qualifiers were added based on a review of the laboratory narrative.

Diesel and oil range petroleum hydrocarbon data are acceptable for use as reported.

4.0 Abbreviations and Definitions

<u>DV Qualifier</u>	<u>Definition</u>
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample reporting limit or the amount of contaminant detected in the sample.
J	The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
UJ	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The sample result is rejected. The presence or absence of the analyte cannot be verified and data are not usable.
R1	The sample result has been replaced by a more reliable or more conservative result.
R2	The sample result has been replaced by a result from a different analysis method.

<u>Abbreviation</u>	<u>Definition</u>
DV	Data Validation
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
MS	Matrix spike
MSD	Matrix spike duplicate
RL	Reporting limit
RPD	Relative percent difference
RSD	Relative standard deviation

5.0 References

USEPA Contract Laboratory Program National Functional Guidelines For Superfund Organic Methods Data Review, Office of Superfund Remediation and Technology Innovation, U.S. Environmental Protection Agency, June 2008, USEPA-540-R-008-01.

USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, January 2009, EPA 540-R-08-005.



DATA VALIDATION REPORT

Skykomish Groundwater Monitoring September and October 2018 Data

Prepared for:

Farallon Consulting, LLC

975 5th Avenue NW

Issaquah, Washington 98027

November 30, 2018

1.0 Introduction

Data Validation was performed on the following water samples:

Sample ID	Sample Date/Time	Lab ID	Analyses
1A-W-4-091218	09/12/2018 12:15	580-80366-46	TPH-Dx
1B-W-2-091218	09/12/2018 09:00	580-80366-47	TPH-Dx
1B-W-23-091218	09/12/2018 10:50	580-80366-51	TPH-Dx
1B-W-3-091218	09/12/2018 09:10	580-80366-48	TPH-Dx
1C-W-1-091118	09/11/2018 14:25	580-80366-29	TPH-Dx
1C-W-3-091118	09/11/2018 15:35	580-80366-31	TPH-Dx
1C-W-4-091118	09/11/2018 15:39	580-80366-32	TPH-Dx
1C-W-7-091118	09/11/2018 16:50	580-80366-34	TPH-Dx
1C-W-8-091118	09/11/2018 14:42	580-80366-30	TPH-Dx
2A-W-10-091218	09/12/2018 14:40	580-80366-54	TPH-Dx
2A-W-40-091218	09/12/2018 12:40	580-80366-45	TPH-Dx
2A-W-410-091218	09/12/2018 12:35	580-80366-53	TPH-Dx
2A-W-41-091218	09/12/2018 12:04	580-80366-52	TPH-Dx, TPHSG
2A-W-42-091118	09/11/2018 16:45	580-80366-33	TPH-Dx
2A-W-9-091218	09/12/2018 14:40	580-80366-55	TPH-Dx
2B-W-4-091218	09/12/2018 15:40	580-80366-60	TPH-Dx
5-W-14-091218	09/12/2018 09:00	580-80366-36	TPH-Dx
5-W-16-091118	09/11/2018 12:30	580-80366-18	TPH-Dx
5-W-17-091118	09/11/2018 12:30	580-80366-17	TPH-Dx
5-W-180-091118	09/11/2018 14:35	580-80366-25	TPH-Dx
5-W-18-091118	09/11/2018 14:30	580-80366-24	TPH-Dx
5-W-19-091118	09/11/2018 14:25	580-80366-23	TPH-Dx
5-W-43-091218	09/12/2018 11:25	580-80366-41	TPH-Dx
5-W-51-091218	09/12/2018 09:10	580-80366-37	TPH-Dx
5-W-55-091118	09/11/2018 17:20	580-80366-35	TPH-Dx
5-W-56-091118	09/11/2018 16:15	580-80366-26	TPH-Dx
EW-10-091218	09/12/2018 10:15	580-80366-40	TPH-Dx
EW-1-091218	09/12/2018 10:05	580-80366-38	TPH-Dx
EW-2A-091118	09/11/2018 12:32	580-80366-28	TPH-Dx
GW-1-091218	09/12/2018 11:35	580-80366-42	TPH-Dx

Sample ID	Sample Date/Time	Lab ID	Analyses
GW-20-091218	09/12/2018 12:50	580-80366-44	TPH-Dx
GW-2-091218	09/12/2018 12:30	580-80366-43	TPH-Dx
GW-30-091218	09/12/2018 10:45	580-80366-50	TPH-Dx
GW-3-091218	09/12/2018 10:19	580-80366-49	TPH-Dx, TPHSG
GW-4-091118	09/11/2018 12:15	580-80366-27	TPH-Dx
MW-16-091218	09/12/2018 15:51	580-80366-61	TPH-Dx
MW-30-091218	09/12/2018 14:20	580-80366-58	TPH-Dx
MW-3-091218	09/12/2018 14:15	580-80366-57	TPH-Dx, TPHSG
MW-38R-091218	09/12/2018 10:15	580-80366-39	TPH-Dx
MW-4-091218	09/12/2018 14:34	580-80366-59	TPH-Dx
MW-555-091218	09/12/2018 15:15	580-80366-56	TPH-Dx
S1-AD-091018	09/10/2018 16:12	580-80366-1	TPH-Dx
S1-AU-091018	09/10/2018 16:20	580-80366-3	TPH-Dx
S1-BD-091018	09/10/2018 16:25	580-80366-4	TPH-Dx
S1-BU-091018	09/10/2018 16:15	580-80366-2	TPH-Dx
S2-AD-091018	09/10/2018 16:55	580-80366-6	TPH-Dx
S2-AU-091018	09/10/2018 17:00	580-80366-7	TPH-Dx
S2-BD-091018	09/10/2018 16:55	580-80366-5	TPH-Dx
S2-BD-100218	10/02/2018 09:45	580-80799-1	TPH-Dx
S2-BU-091018	09/10/2018 17:10	580-80366-8	TPH-Dx
S2-BU-100218	10/02/2018 10:15	580-80799-2	TPH-Dx
S3-AD-091118	09/11/2018 09:42	580-80366-9	TPH-Dx
S3-AU-091118	09/11/2018 09:48	580-80366-11	TPH-Dx
S3-BD-091118	09/11/2018 09:55	580-80366-12	TPH-Dx
S3-BU-091118	09/11/2018 09:44	580-80366-10	TPH-Dx
S3-CD-091118	09/11/2018 10:22	580-80366-13	TPH-Dx
S3-CU-091118	09/11/2018 10:30	580-80366-14	TPH-Dx
S4-AD-091118	09/11/2018 10:45	580-80366-16	TPH-Dx
S4-AU-091118	09/11/2018 10:35	580-80366-15	TPH-Dx
S4-BD-091118	09/11/2018 11:15	580-80366-21	TPH-Dx
S4-BU-091118	09/11/2018 11:05	580-80366-19	TPH-Dx
S4-CD-091118	09/11/2018 11:10	580-80366-20	TPH-Dx
S4-CU-091118	09/11/2018 11:18	580-80366-22	TPH-Dx

Samples were analyzed by Test America, Tacoma, Washington.

A stage 2A summary validation was performed on the analytical results including both the hardcopy (portable document format) and electronic data deliverable, earning EPA OSWER validation label code S2AVEM. Validation was performed by Cari Saylor.

Data qualifiers are assigned based only on the criteria reviewed and do not include calibration or instrument performance issues unless noted in the laboratory narrative.

No data qualifiers were assigned during this review.

2.0 Precision, Accuracy, Representativeness, Comparability, and Completeness

Sample analysis frequencies: Quarterly sampling includes 25 water sample locations, and semi-annual sampling includes an additional 29 water sample locations. Additionally, 20 of the 29 semi-annual locations are sentry wells which must be sampled if the HCC system has been down for more than 48 hours in the previous quarter. For this round of sampling, both quarterly

and semi-annual locations were required. Samples were collected from required locations and the required analysis was completed by the laboratory for each collected sample.

Analysis methods: Each sample was analyzed by method NWTPH-Dx and prepared by method SW3510C. These methods are approved EPA methods and therefore meet comparability requirements. Additionally, samples GW-3-091218, 2A-W-41-091218, and MW-3-091218 were prepared with method SW3510C a second time, cleaned up with method SW3630C (silica gel) and analyzed by NWTPH-Dx.

Precision, accuracy and completeness: Accuracy and precision measurements were within control limits. A data completeness of 100% was calculated based on 54 of 54 intended sample analyses completed. This meets the project goal of 90%.

3.0 Diesel Range Petroleum Hydrocarbon Analysis

Quality control analysis frequencies: The method specifies that a method blank must be analyzed one per analytical batch or one per twenty samples, whichever is more frequent, and a laboratory duplicate must be analyzed one per ten samples. In addition, surrogate compounds must be measured in each field and quality control sample.

Each batch included a method blank, laboratory control sample (LCS), and LCS duplicate (LCSD), as well as appropriate surrogates. Data qualifiers are not required due to a lack of laboratory duplicate results.

Holding times: Unpreserved water samples must be extracted within 7 days of collection. Preserved water samples must be extracted within 14 days of collection. Extracts must be analyzed within 40 days of extraction. Samples were extracted and analyzed within holding time.

Laboratory and field blank results: Criteria for blanks are that analyte concentrations must be below the PQL, or below 5% of the lowest associated sample concentration. No target compounds were detected in the method or field blanks.

Surrogate recoveries: Laboratory control limits ranged were 50-150%. Surrogate recoveries were within limits with the following exceptions:

Sample ID	Surrogate	% Recovery	Lab Control Limit
MW-30-091218	o-Terphenyl	3	50 - 150
S1-AU-091018	o-Terphenyl	6	50 - 150
S2-BU-091018	o-Terphenyl	10	50 - 150
S4-BU-091118	o-Terphenyl	47	50 - 150

In each case, the laboratory noted matrix interference, and no qualifiers are assigned.

LCS recoveries: Laboratory control limits ranged from 50-120% to 64-120%. LCS recoveries were within limits.

LCS/LCSD RPDs: The laboratory control limit ranged from <24 to <26%. LCS/LCSD RPD values were within limits.

Field duplicate RPDs: For concentrations below five times the reporting limits, concentrations were within +/- two times the reporting limit. For concentrations above five times the reporting limit, RPDs were below 50%.

Multiple reported results: No multiple reported results for the same collected sample were present in this laboratory report.

Reporting limits: The reporting limit goals are 0.1 mg/L for both diesel range hydrocarbons and oil range hydrocarbons. These goals were met.

Laboratory narrative and flags: No qualifiers were added based on a review of the laboratory narrative.

Diesel and oil range petroleum hydrocarbon data are acceptable for use as reported.

4.0 Abbreviations and Definitions

<u>DV Qualifier</u>	<u>Definition</u>
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample reporting limit or the amount of contaminant detected in the sample.
J	The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
UJ	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The sample result is rejected. The presence or absence of the analyte cannot be verified and data are not usable.
R1	The sample result has been replaced by a more reliable or more conservative result.
R2	The sample result has been replaced by a result from a different analysis method.

<u>Abbreviation</u>	<u>Definition</u>
DV	Data Validation
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
MS	Matrix spike
MSD	Matrix spike duplicate
RL	Reporting limit
RPD	Relative percent difference
RSD	Relative standard deviation

5.0 References

USEPA National Functional Guidelines For Superfund Organic Methods Data Review, Office of Superfund Remediation and Technology Innovation, U.S. Environmental Protection Agency, August 2014, EPA-540-R-014-002.

USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, January 2009, EPA 540-R-08-005.



DATA VALIDATION REPORT

Skykomish Groundwater Monitoring December 2018 Data

Prepared for:
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, Washington 98027

January 23, 2019

1.0 Introduction

Data validation was performed on the following water samples:

Sample ID	Sample Date/Time	Lab ID	Analyses
1B-W-23-121118	12/11/2018 12:00	580-82652-5	TPH-Dx
1B-W-3-121218	12/12/2018 10:40	580-82652-27	TPH-Dx
1C-W-1-121218	12/12/2018 09:40	580-82652-24	TPH-Dx
1C-W-7-121118	12/11/2018 16:10	580-82652-11	TPH-Dx
1C-W-8-121218	12/12/2018 09:41	580-82652-25	TPH-Dx
2A-W-10-121118	12/11/2018 10:30	580-82652-3	TPH-Dx
2A-W-40-121118	12/11/2018 09:23	580-82652-13	TPH-Dx
2A-W-410-121218	12/12/2018 11:20	580-82652-29	TPH-Dx
2A-W-41-121218	12/12/2018 11:01	580-82652-28	TPH-Dx, TPHSG
2A-W-42-121118	12/11/2018 16:12	580-82652-10	TPH-Dx
2A-W-9-121118	12/11/2018 10:44	580-82652-4	TPH-Dx
2B-W-4-121218	12/12/2018 12:23	580-82652-35	TPH-Dx
5-W-14-121218	12/12/2018 13:27	580-82652-37	TPH-Dx
5-W-16-121218	12/12/2018 12:24	580-82652-36	TPH-Dx
5-W-17-121218	12/12/2018 11:03	580-82652-30	TPH-Dx
5-W-18-121118	12/11/2018 15:35	580-82652-20	TPH-Dx
5-W-19-121118	12/11/2018 15:20	580-82652-19	TPH-Dx
5-W-43-121118	12/11/2018 12:35	580-82652-23	TPH-Dx
5-W-51-121218	12/12/2018 09:51	580-82652-26	TPH-Dx
5-W-55-121118	12/11/2018 16:45	580-82652-21	TPH-Dx
5-W-56-121118	12/11/2018 17:12	580-82652-22	TPH-Dx
EW-1-121218	12/12/2018 11:50	580-82652-18	TPH-Dx
EW-2A-121118	12/11/2018 14:49	580-82652-8	TPH-Dx
FWG-EV-121218	12/12/2018 12:40	580-82652-32	TPH-Dx
FWG-WV-121218	12/12/2018 11:40	580-82652-31	TPH-Dx
GW-1-121118	12/11/2018 11:15	580-82652-15	TPH-Dx
GW-20-121118	12/11/2018 10:05	580-82652-16	TPH-Dx
GW-2-121118	12/11/2018 09:50	580-82652-12	TPH-Dx
GW-30-121118	12/11/2018 12:30	580-82652-7	TPH-Dx
GW-3-121118	12/11/2018 12:12	580-82652-6	TPH-Dx, TPHSG

Sample ID	Sample Date/Time	Lab ID	Analyses
GW-4-121118	12/11/2018 15:00	580-82652-9	TPH-Dx
MW-3-121118	12/11/2018 09:43	580-82652-2	TPH-Dx
MW-4-121118	12/11/2018 09:40	580-82652-1	TPH-Dx
MW-555-121813	12/13/2018 11:10	580-82660-17	TPH-Dx
PZ-7S-12118	12/11/2018 11:24	580-82652-17	TPH-Dx
PZ-8-121118	12/11/2018 12:42	580-82652-14	TPH-Dx
S1-AD-121218	12/12/2018 16:06	580-82660-4	TPH-Dx
S1-AU-121218	12/12/2018 16:00	580-82660-3	TPH-Dx
S1-BD-121218	12/12/2018 16:00	580-82660-2	TPH-Dx
S1-BU-121218	12/12/2018 16:00	580-82660-1	TPH-Dx
S2-AD-121218	12/12/2018 13:40	580-82652-38	TPH-Dx
S2-AU-121218	12/12/2018 13:13	580-82652-39	TPH-Dx
S2-BD-121218	12/12/2018 13:55	580-82652-40	TPH-Dx
S2-BU-121218	12/12/2018 13:55	580-82652-41	TPH-Dx
S3-AD-121318	12/13/2018 08:50	580-82660-6	TPH-Dx
S3-AU-121318	12/13/2018 08:45	580-82660-5	TPH-Dx
S3-BD-121318	12/13/2018 09:00	580-82660-7	TPH-Dx
S3-BU-121318	12/13/2018 09:03	580-82660-8	TPH-Dx
S3-CD-121318	12/13/2018 09:15	580-82660-9	TPH-Dx
S3-CU-121318	12/13/2018 09:20	580-82660-10	TPH-Dx
S4-AD-121318	12/13/2018 10:10	580-82660-12	TPH-Dx
S4-AU-121318	12/13/2018 10:10	580-82660-11	TPH-Dx
S4-BD-121318	12/13/2018 10:12	580-82660-13	TPH-Dx
S4-BU-121318	12/13/2018 10:15	580-82660-14	TPH-Dx
S4-CD-121318	12/13/2018 10:50	580-82660-16	TPH-Dx
S4-CU-121318	12/13/2018 10:41	580-82660-15	TPH-Dx
WG-EV-121218	12/12/2018 12:40	580-82652-34	TPH-Dx
WG-WV-121218	12/12/2018 13:15	580-82652-33	TPH-Dx

Samples were analyzed by Test America, Tacoma, Washington.

A stage 2A summary validation was performed on the analytical results including both the hardcopy (portable document format) and electronic data deliverable, earning EPA OSWER validation label code S2AVEM. Validation was performed by Cari Saylor.

Data qualifiers are assigned based only on the criteria reviewed and do not include calibration or instrument performance issues unless noted in the laboratory narrative.

Qualifiers are summarized in section 4.0 of this report.

2.0 Precision, Accuracy, Representativeness, Comparability, and Completeness

Sample analysis frequencies: Quarterly sampling includes 25 water sample locations, and semi-annual sampling includes an additional 29 water sample locations. Additionally, 20 of the 29 semi-annual locations are sentry wells which must be sampled if the HCC system has been down for more than 48 hours in the previous quarter. For this round of sampling, quarterly and sentry locations were required. Samples were collected from all required locations and the required analysis was completed by the laboratory for each collected sample. Please note that 6 additional samples associated with the HCC system vaults were also sampled and analyzed.

Analysis methods: Each sample was analyzed by method NWTPH-Dx and prepared by method SW3510C. These methods are approved EPA methods and therefore meet comparability requirements. Additionally, samples 2A-W-41-121218 and GW-3-121118 were prepared with method SW3510C a second time, cleaned up with method SW3630C (silica gel) and analyzed by NWTPH-Dx.

Precision, accuracy and completeness: Accuracy and precision measurements were within control limits. A data completeness of 100% was calculated based on 45 of 45 intended sample analyses completed. This meets the project goal of 90%.

3.0 Diesel Range Petroleum Hydrocarbon Analysis

Quality control analysis frequencies: The method specifies that a method blank must be analyzed one per analytical batch or one per twenty samples, whichever is more frequent, and a laboratory duplicate must be analyzed one per ten samples. In addition, surrogate compounds must be measured in each field and quality control sample.

Each batch included a method blank, laboratory control sample (LCS), and LCS duplicate (LCSD), as well as appropriate surrogates. Data qualifiers are not required due to a lack of laboratory duplicate results.

Holding times: Unpreserved water samples must be extracted within 7 days of collection. Preserved water samples must be extracted within 14 days of collection. Extracts must be analyzed within 40 days of extraction. Samples were extracted and analyzed within holding with two exceptions:

Sample ID	Days, Sample to Extraction	Days, Extraction to Analysis	Days, Sample to Analysis
GW-3-121118 RE	19	0	19
GW-3-121118 RE	19	0	19
GW-3-121118 (w/ SG)	19	0	19
GW-3-121118 (w/ SG)	19	0	19

These results are qualified as estimated.

Laboratory and field blank results: Criteria for blanks are that analyte concentrations must be below the PQL, or below 5% of the lowest associated sample concentration. No target compounds were detected in the method or field blanks.

Surrogate recoveries: Laboratory control limits were 50-150%. Surrogate recoveries were within limits with one exception:

Sample ID	Surrogate	% Recovery	Lab Control Limit
5-W-56-121118	o-Terphenyl	2894	50 - 150

The laboratory noted matrix interference, and no qualifiers are assigned.

LCS recoveries: Laboratory control limits were 50-120% and 64-120%. LCS recoveries were within limits with one exception:

QC ID	Analyte	% Recovery	Lab Control Limit
LCSD 580-291536/3-B	Motor Oil (>C24-C36)	130	64 - 120

Motor Oil was not detected in the associated sample and no qualifiers are required.

LCS/LCSD RPDs: The laboratory control limit ranged from <24 to <26%. LCS/LCSD RPD values were within limits.

QC ID	Analyte	RPD	Lab Control Limit
LCSD 580-291573/3-A	#2 Diesel (C10-C24)	40	26
LCSD 580-291573/3-A	Motor Oil (>C24-C36)	36	24

Neither diesel nor motor oil were detected in the associated samples, and no qualifiers are required.

Field duplicate RPDs: For concentrations above five times the reporting limit, RPDs were below 50%. For concentrations below five times the reporting limits, concentrations were within +/- two times the reporting limit with two exceptions:

FD ID	Analyte	FD Result (mg/L)	Sample Result (mg/L)	RL (mg/L)
GW-20-121118 / GW-2-121118	#2 Diesel (C10-C24)	0.46	0.13	0.062
GW-20-121118 / GW-2-121118	Motor Oil (>C24-C36)	1	0.27	0.091

These analytes are qualified as estimated in the sample and field duplicate.

Reporting limits: The reporting limit goals are 0.1 mg/L for both diesel range hydrocarbons and oil range hydrocarbons. These goals were met.

Laboratory narrative and flags: No qualifiers were added based on a review of the laboratory narrative.

Diesel and oil range petroleum hydrocarbon data are acceptable for use as qualified.

4.0 Validation Qualifiers

Client ID	Analyte(s)	Qualifier	Reason
GW-20-121118	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High FD Difference
GW-2-121118	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High FD Difference
GW-3-121118 RE	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	Extraction hold time exceeded
GW-3-121118 (w/ SG)	#2 Diesel (C10-C24)	J	Extraction hold time exceeded
GW-3-121118 (w/ SG)	Motor Oil (>C24-C36)	UJ	Extraction hold time exceeded

5.0 Abbreviations and Definitions

DV Qualifier

U

Definition

The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample reporting limit or the amount of contaminant detected in the sample.

<u>DV Qualifier</u>	<u>Definition</u>
J	The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
UJ	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The sample result is rejected. The presence or absence of the analyte cannot be verified and data are not usable.
R1	The sample result has been replaced by a more reliable or more conservative result.
R2	The sample result has been replaced by a result from a different analysis method.

<u>Abbreviation</u>	<u>Definition</u>
DV	Data Validation
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
MS	Matrix spike
MSD	Matrix spike duplicate
RL	Reporting limit
RPD	Relative percent difference
RSD	Relative standard deviation

6.0 References

USEPA Contract Laboratory Program National Functional Guidelines For Superfund Organic Methods Data Review, Office of Superfund Remediation and Technology Innovation, U.S. Environmental Protection Agency, June 2008, USEPA-540-R-008-01.

USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, January 2009, EPA 540-R-08-005.

APPENDIX C
NWTPH-Dx TREND PLOTS

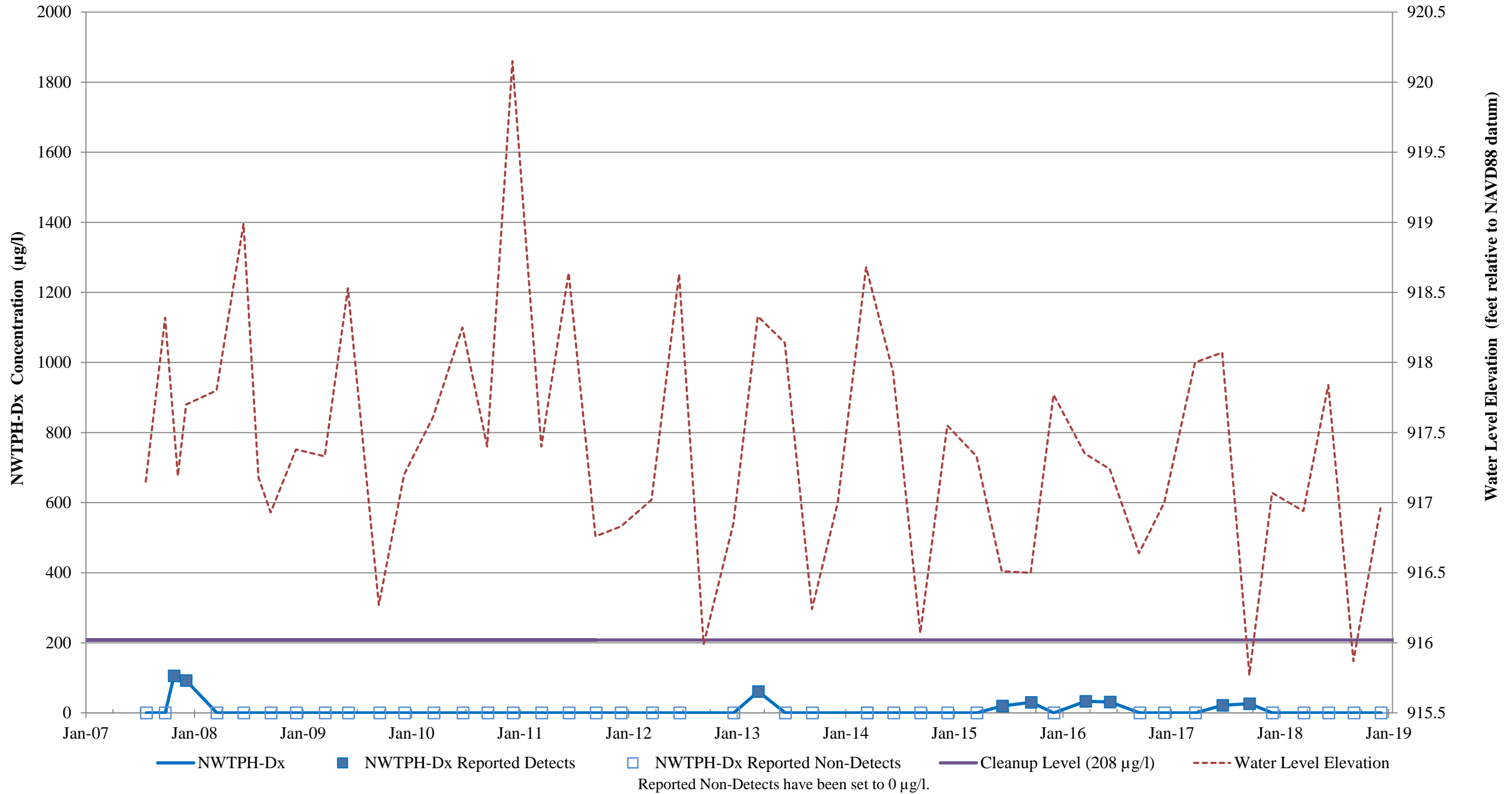
2018 SITE-WIDE GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-067

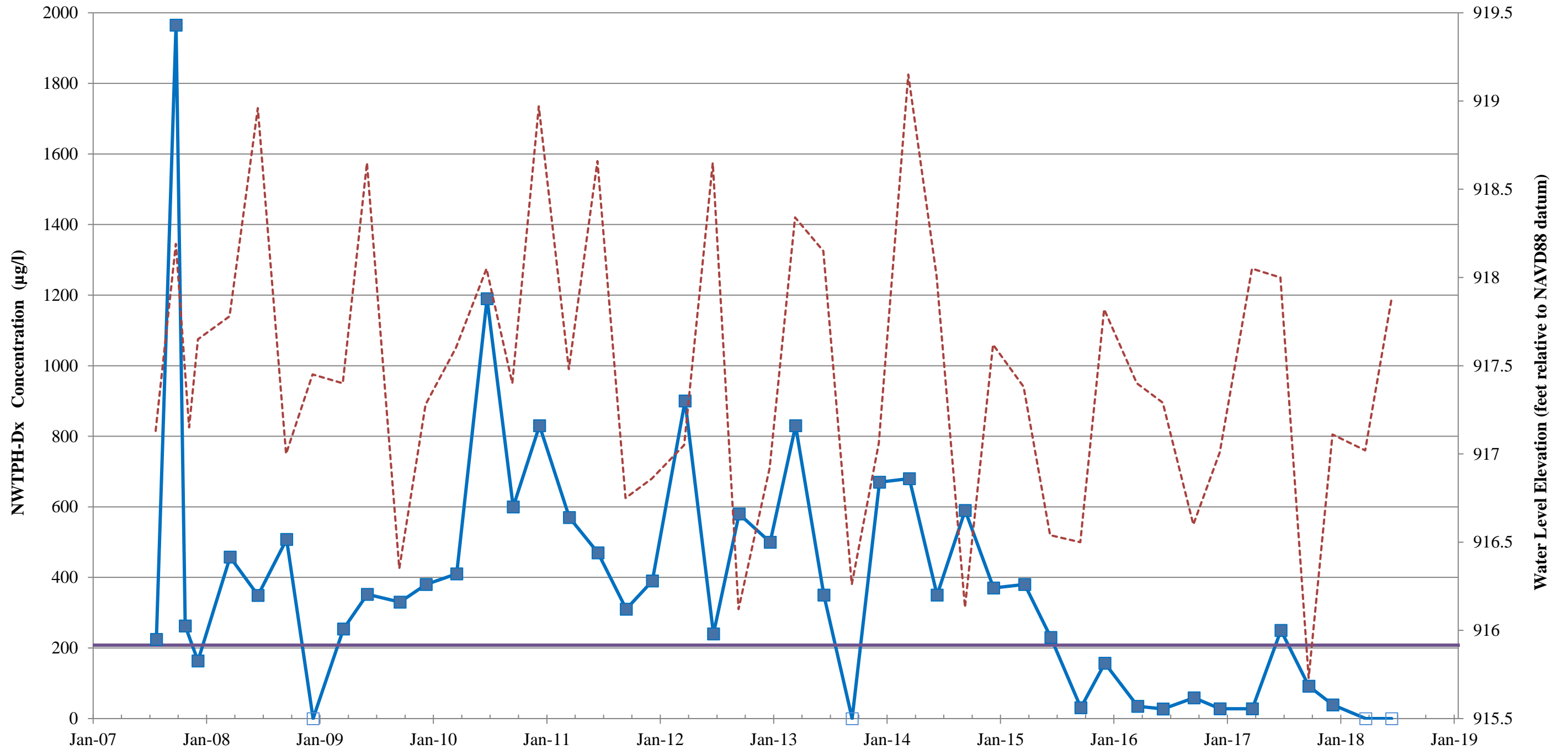
Levee Zone Monitoring Wells

Note: Levee Zone monitoring well NWTPH-Dx groundwater results are compared to the Cleanup Level (CUL) of 208 micrograms per liter.

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 5-W-14

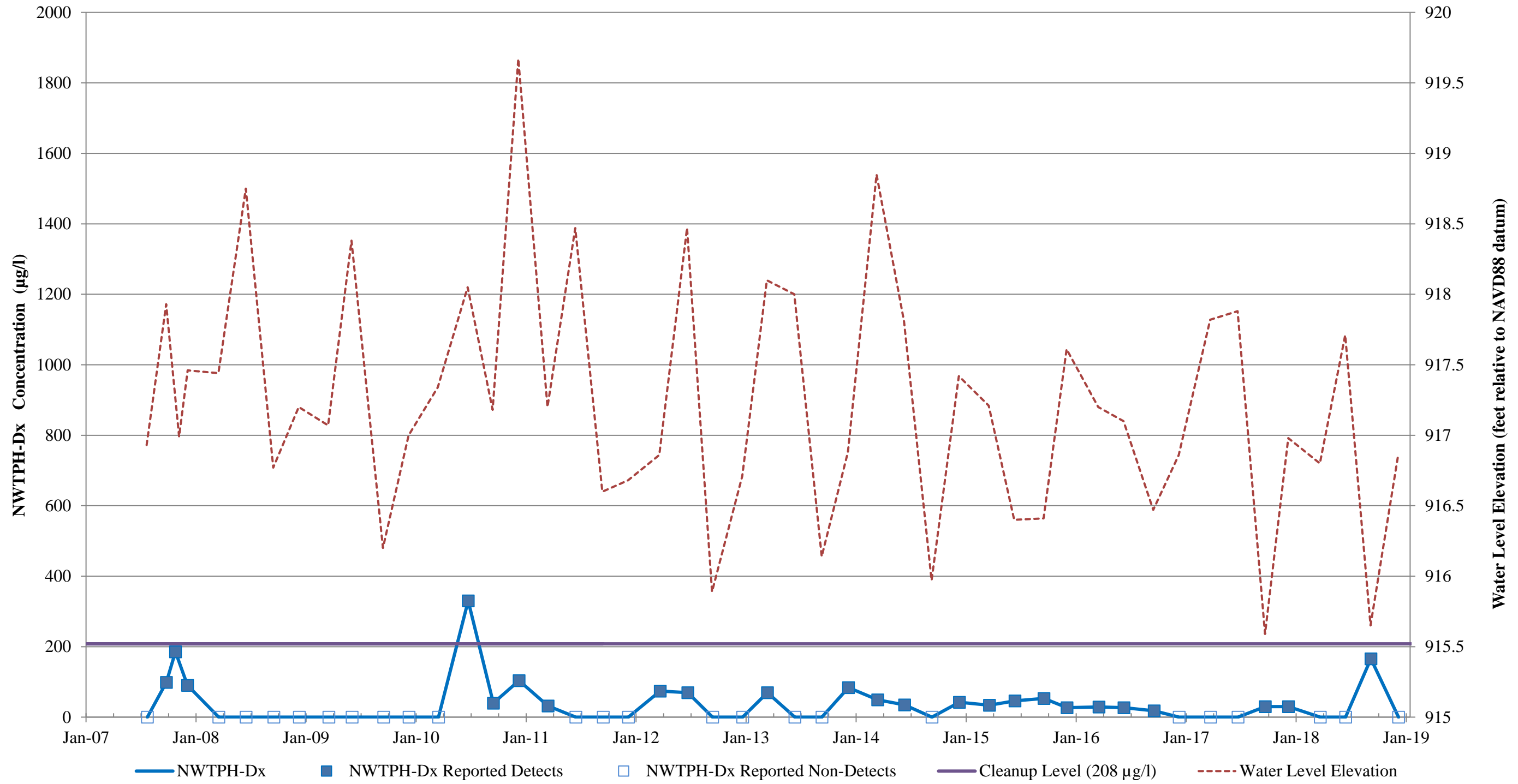


NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 5-W-15



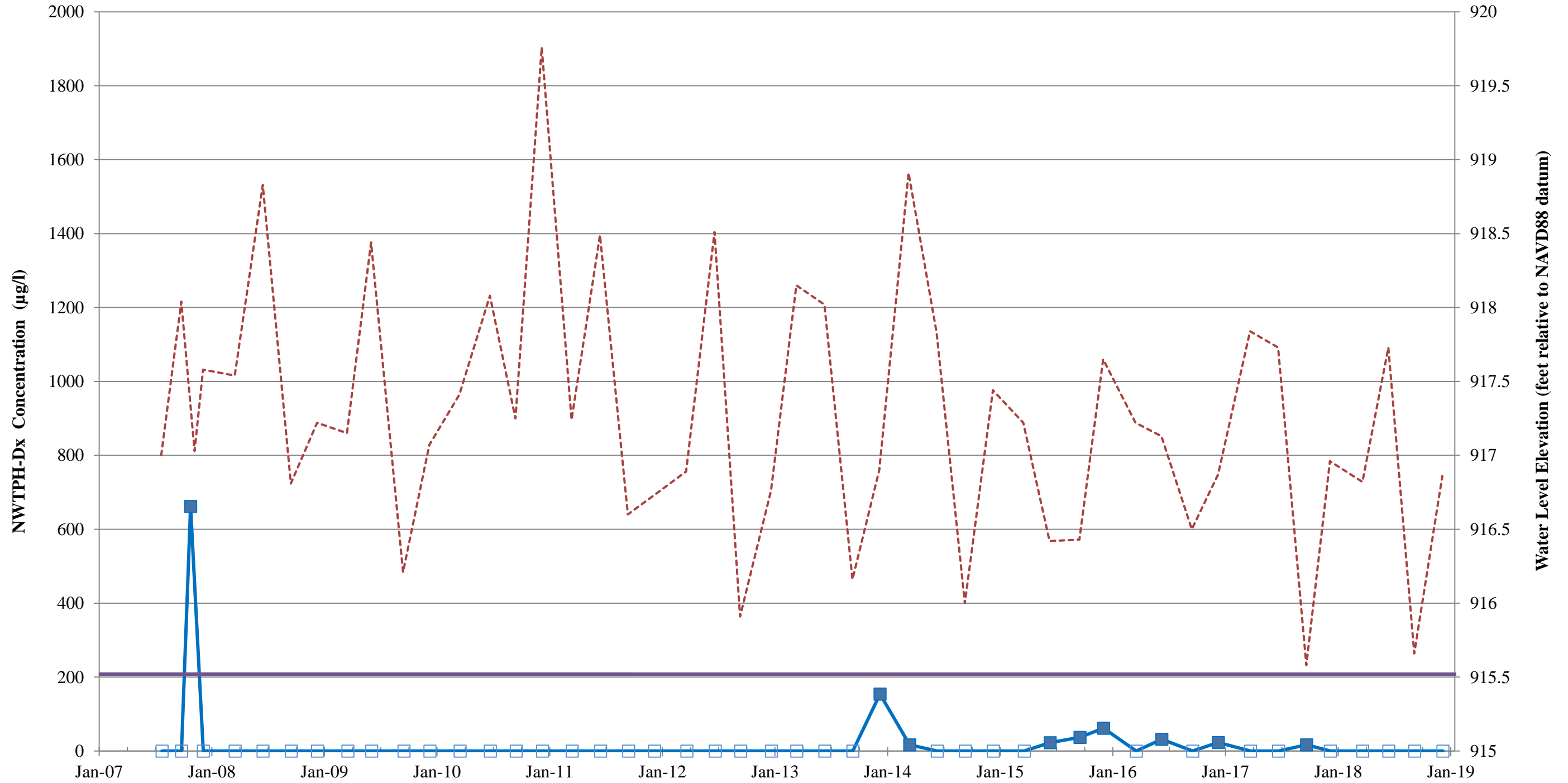
—■ NWTPH-Dx
 ■ NWTPH-Dx Reported Detects
 □ NWTPH-Dx Reported Non-Detects
 — Cleanup Level (208 µg/l)
 - - - Water Level Elevation
 Reported Non-Detects have been set to 0 µg/l.

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 5-W-16



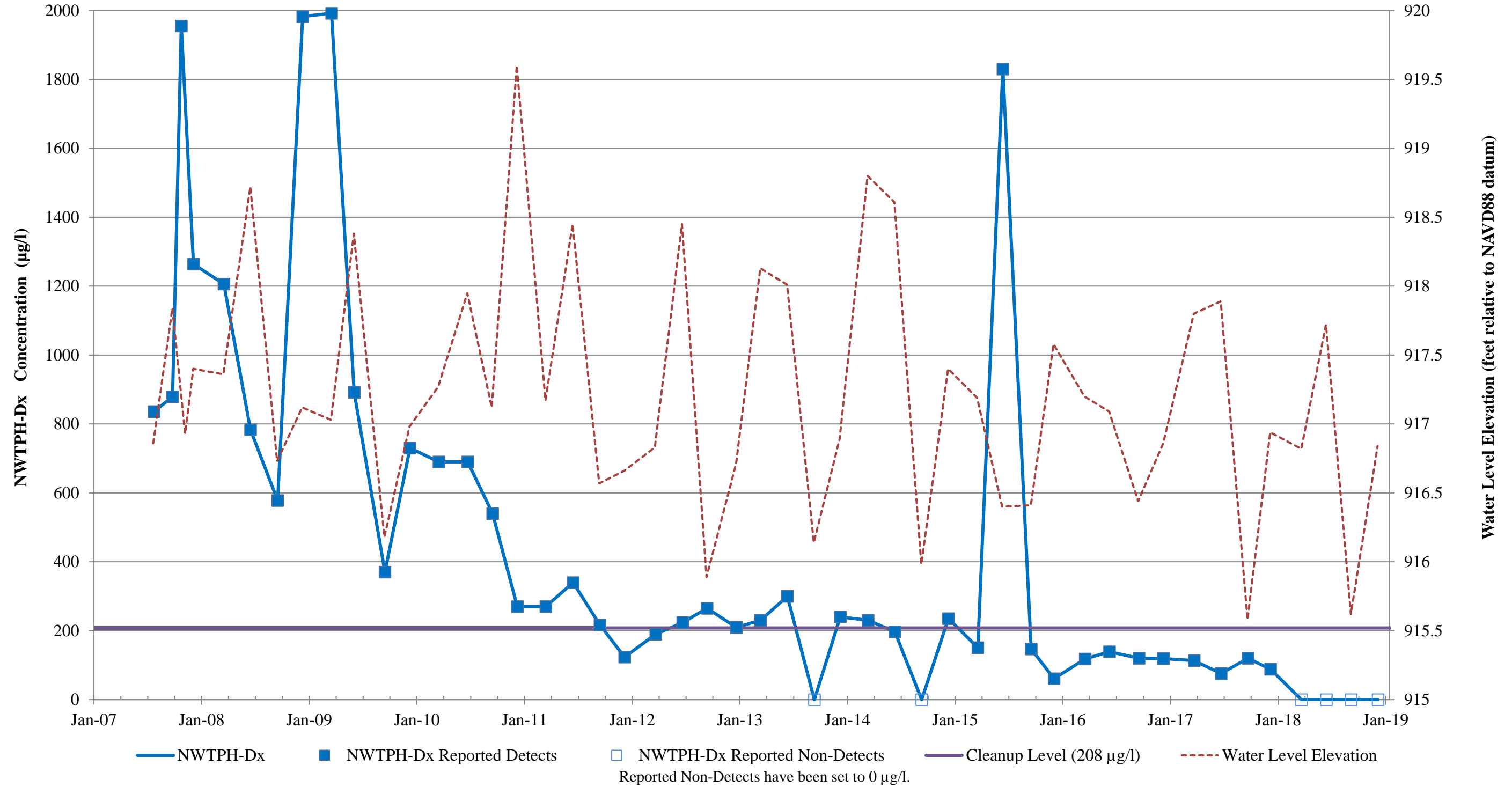
Reported Non-Detects have been set to 0 µg/l.

**NWTPH-Dx Trend Plot
 BNSF Former Maintenance and Fueling Facility
 Skykomish, Washington
 Farallon PN: 683-067
 Well 5-W-17**

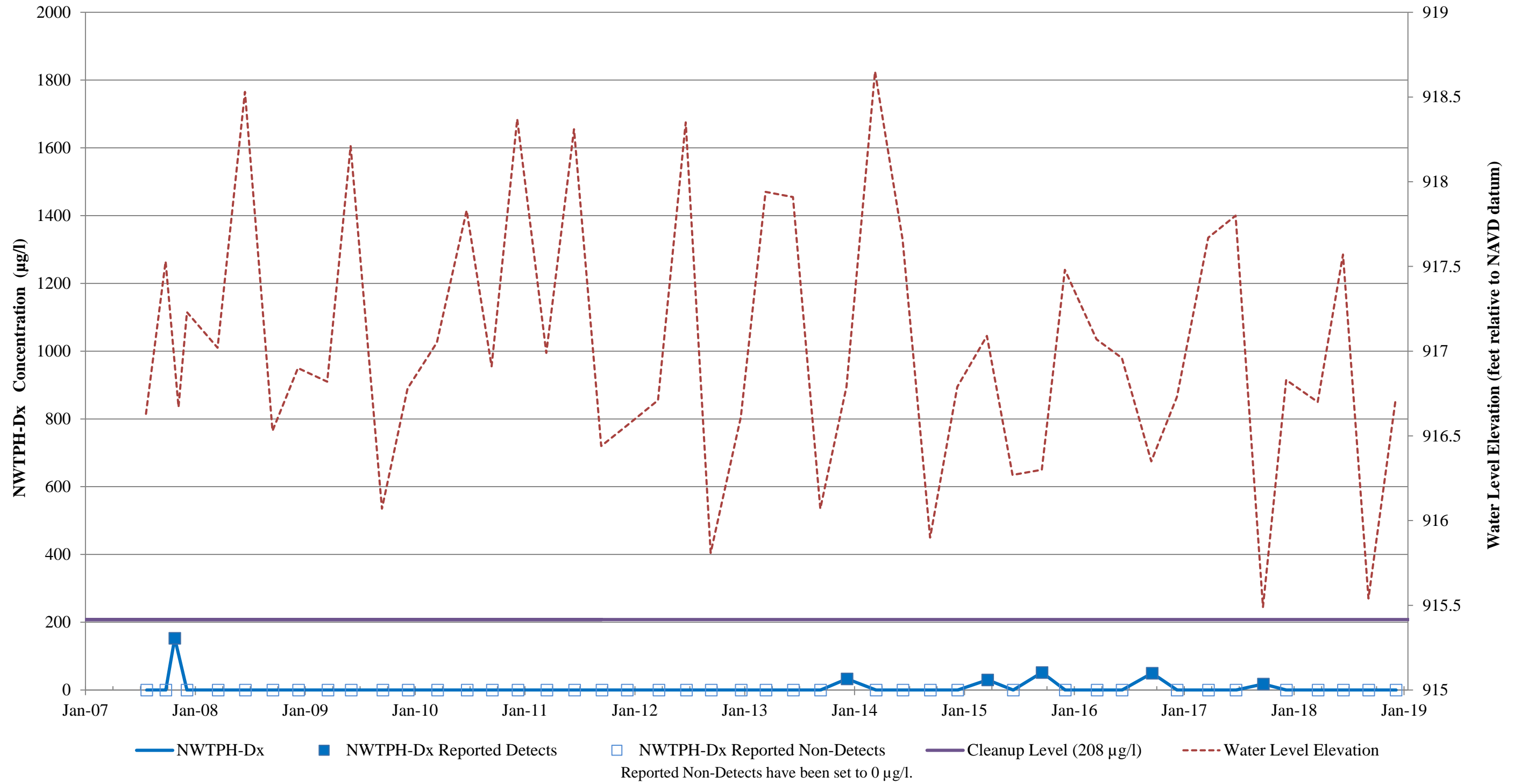


—■ NWTPH-Dx
■ NWTPH-Dx Reported Detects
□ NWTPH-Dx Reported Non-Detects
— Cleanup Level (208 µg/l)
- - - Water Level Elevation
 Reported Non-Detects have been set to 0 µg/l.

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 5-W-18



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 5-W-19

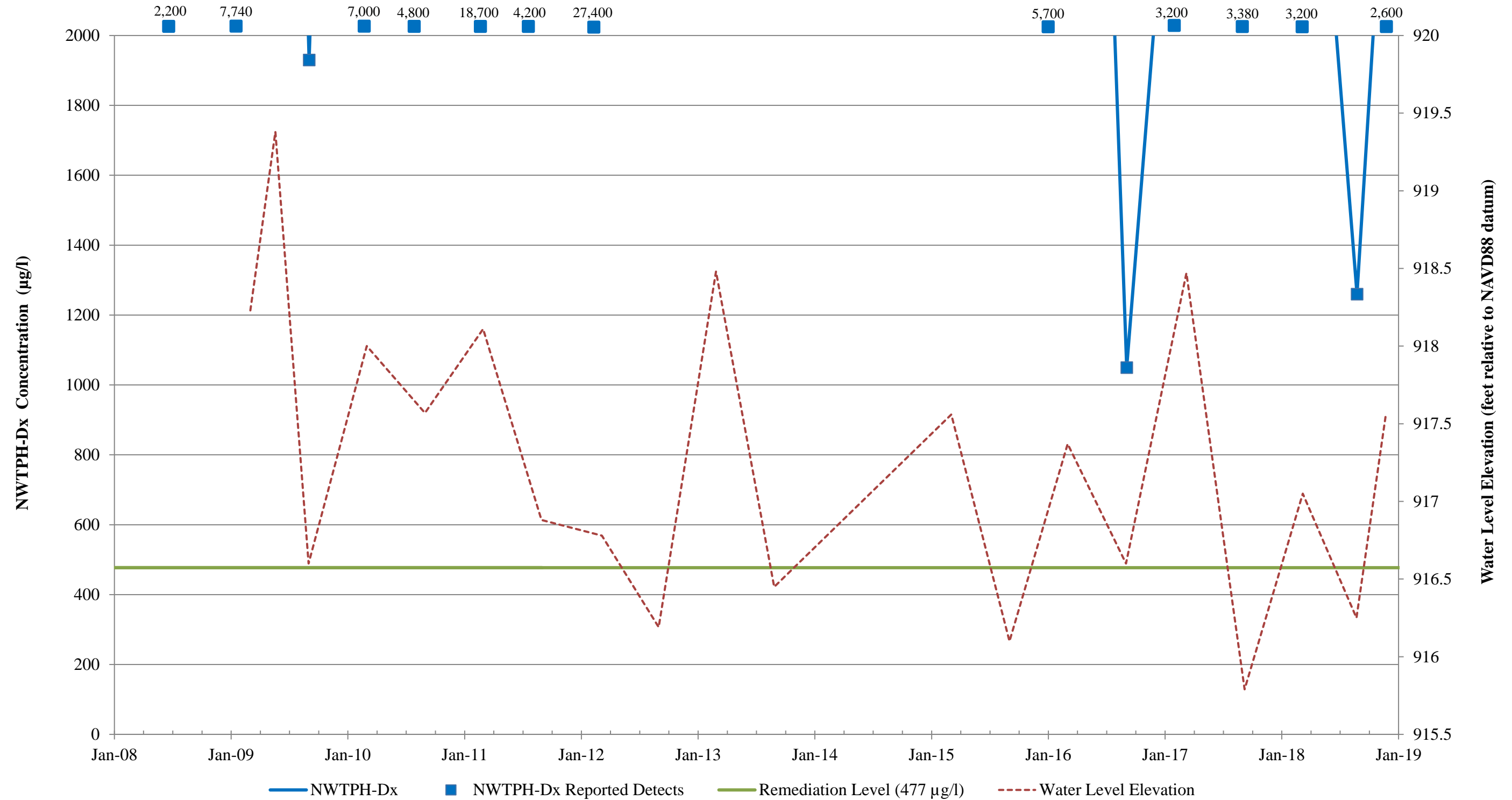


Schoolyard Monitoring Wells

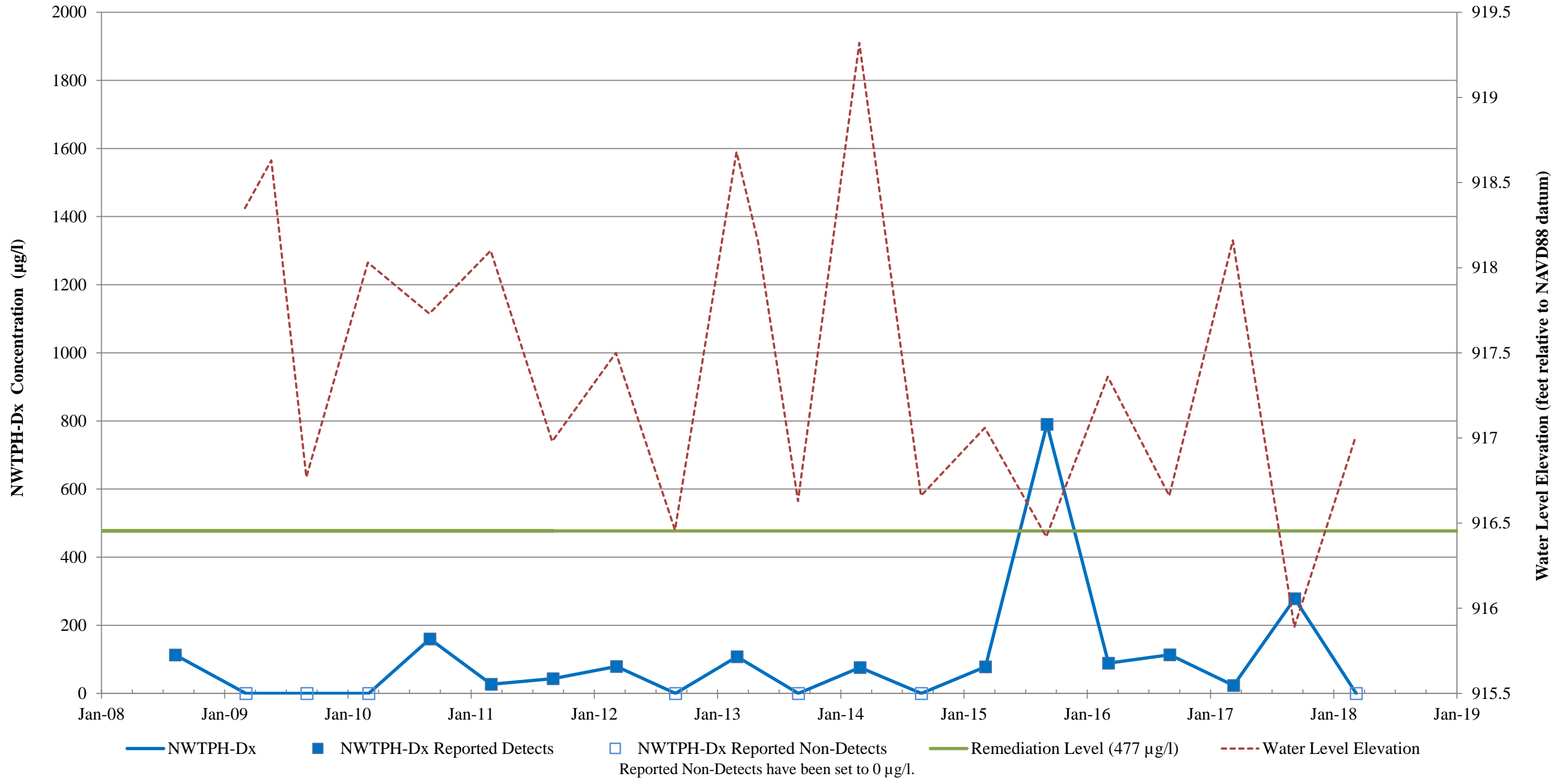
Note: Schoolyard monitoring well NWTPH-Dx groundwater results are compared to the Remediation Level (RL) of 477 micrograms per liter.

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 5-W-51

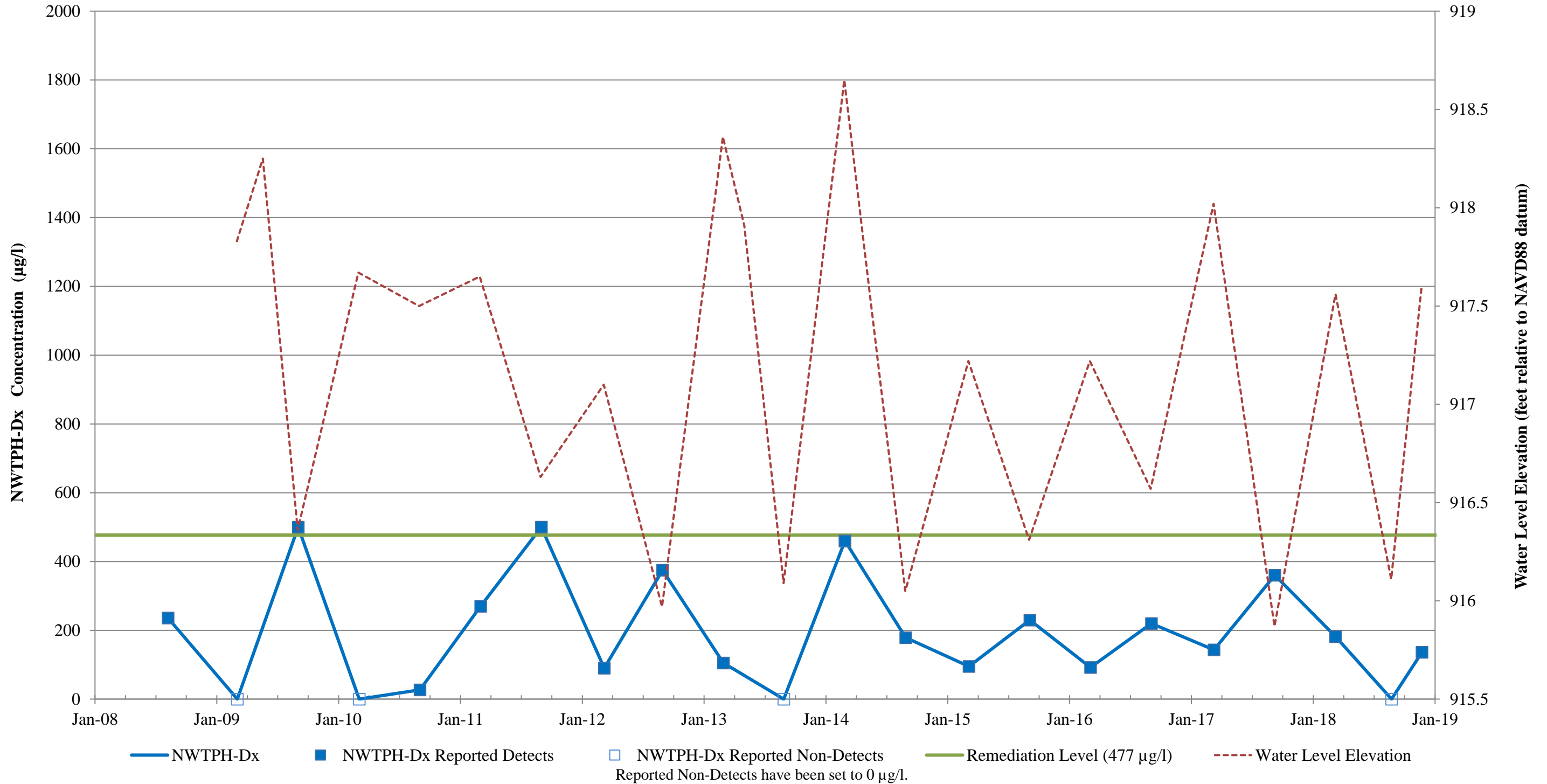
NWTPH-Dx concentrations exceeding the plot scale are shown above the plot area with the associated reported concentration value.



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 5-W-54

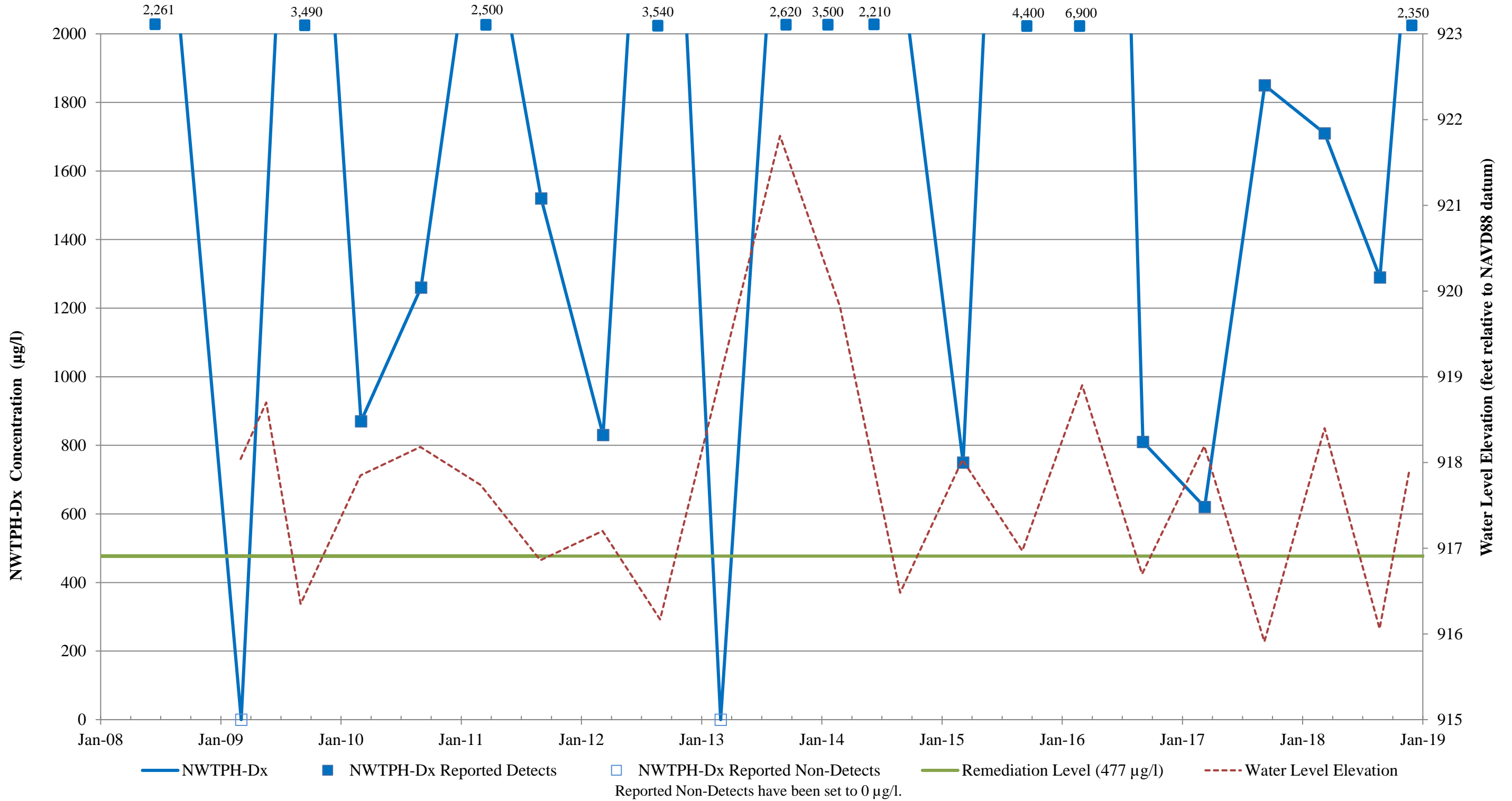


NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 5-W-55



NWTPH-Dx concentrations exceeding the plot scale are shown above the plot area with the associated reported concentration value.

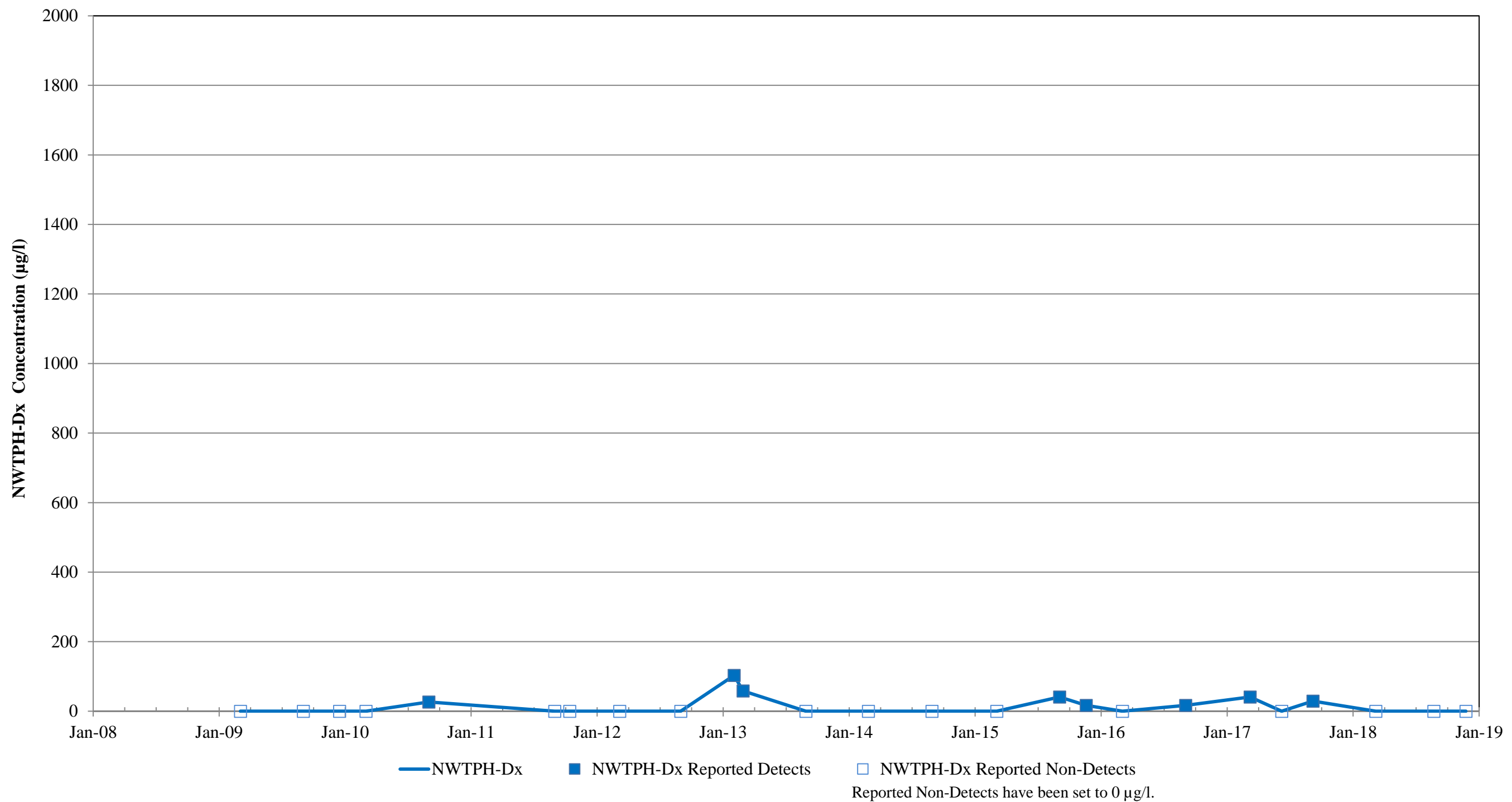
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 5-W-56



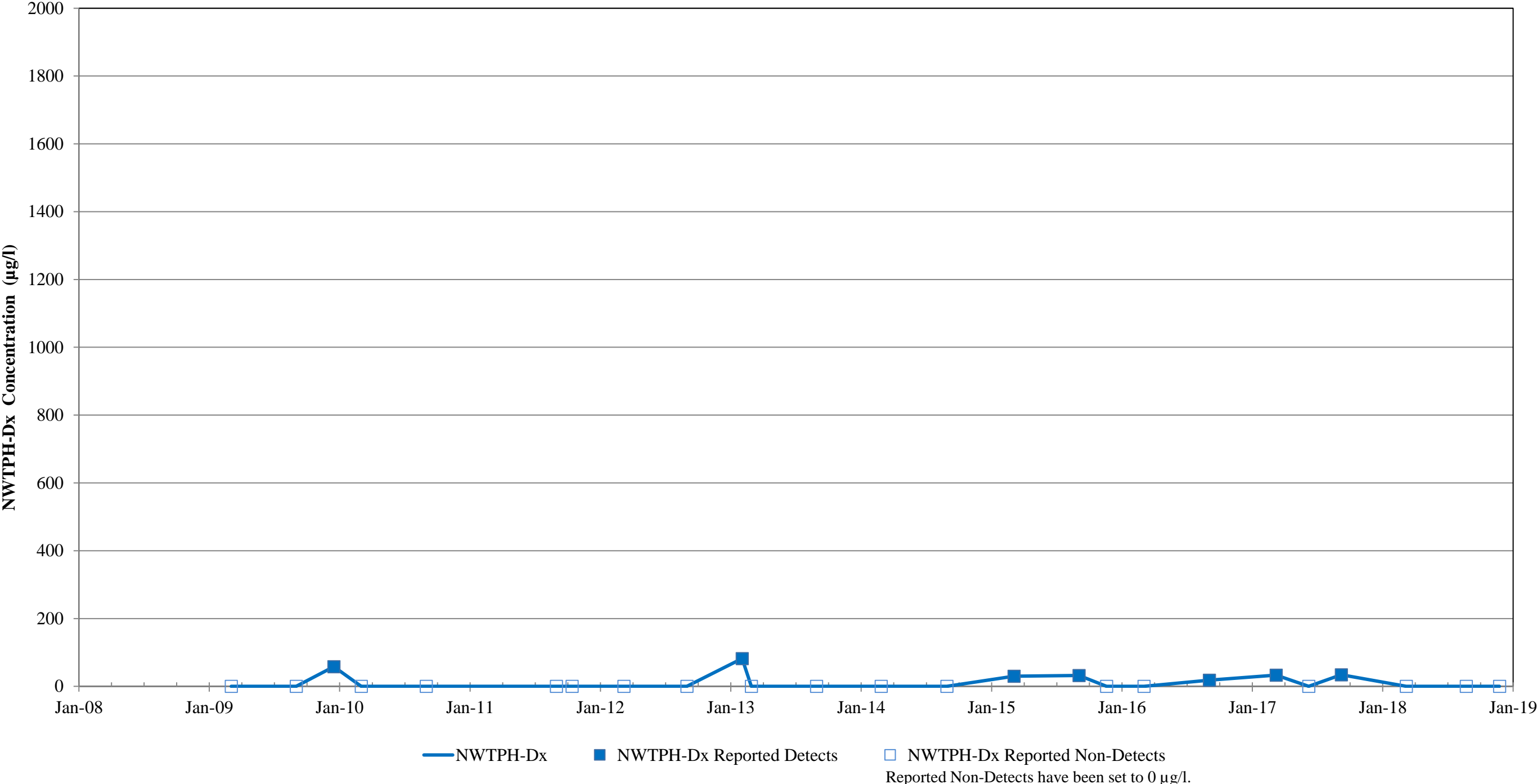
Hydraulic Control and Containment System Sentry Wells and Monitoring Wells

Note: Monitoring well NWTPH-Dx groundwater results from wells located north of the HCC barrier wall (i.e., downgradient of railyard) are compared to the RL of 477 micrograms per liter; NWTPH-Dx groundwater results from monitoring locations within and south of the HCC barrier wall (i.e., within the railyard) have no NWTPH-Dx target.

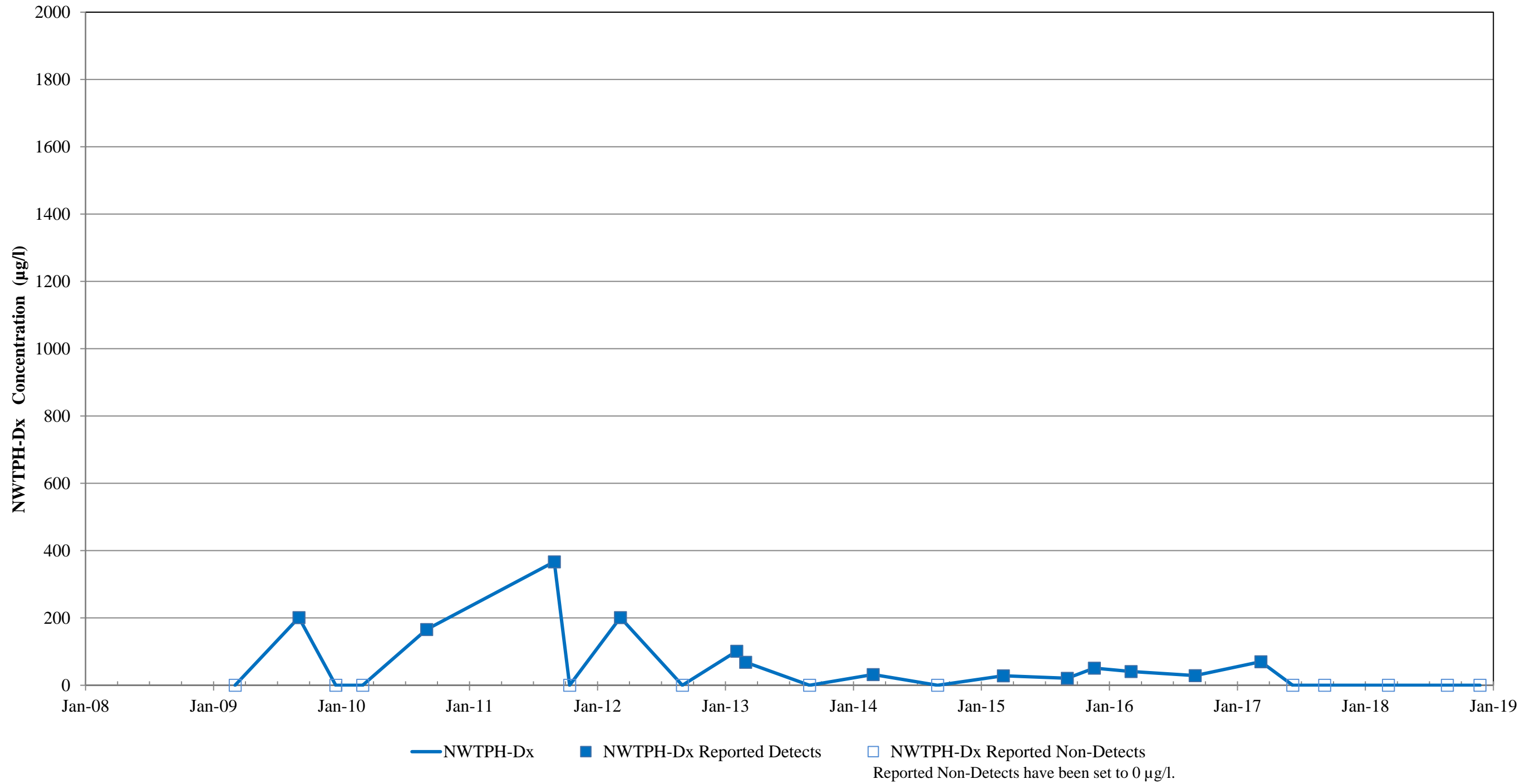
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S1-AD



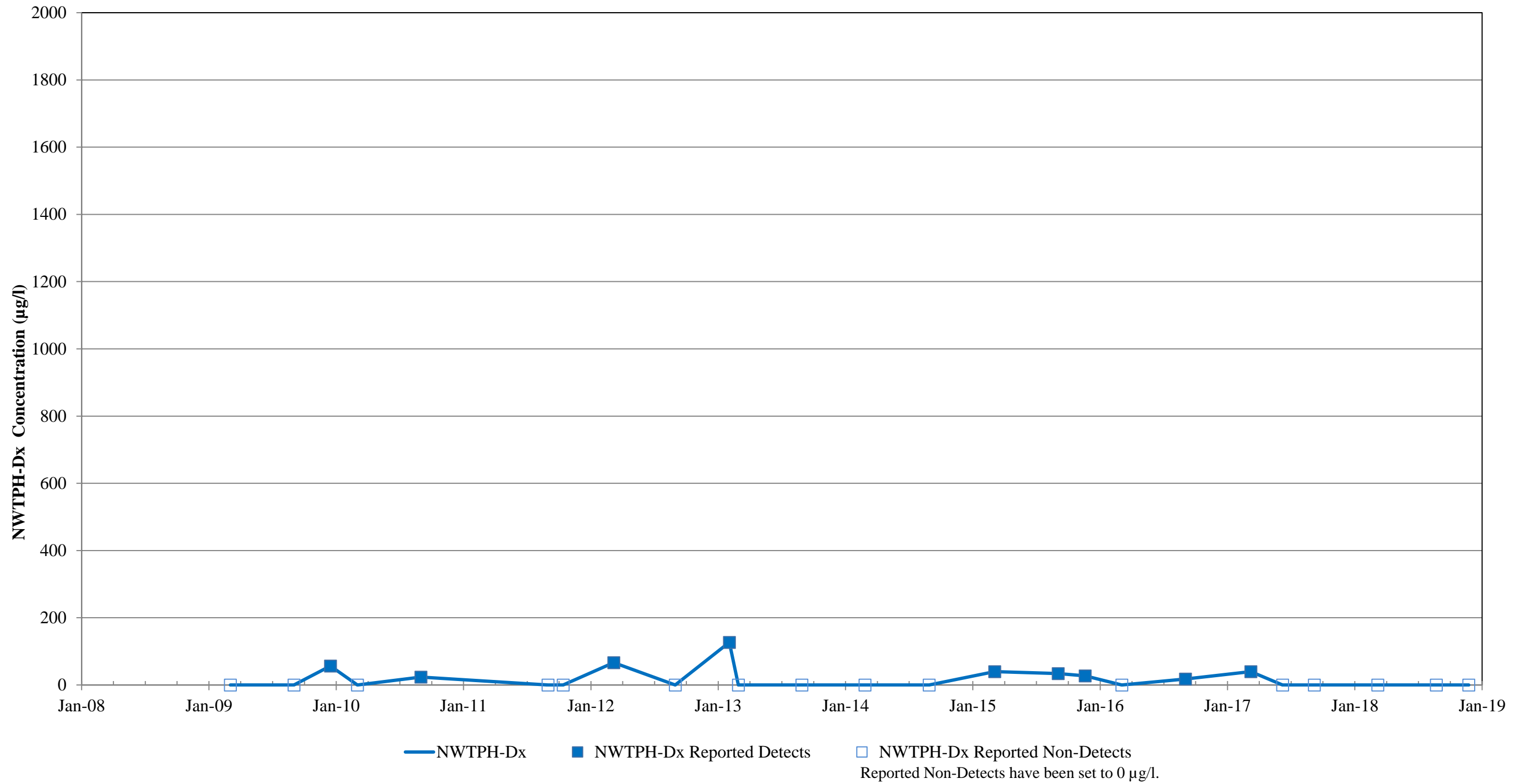
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S1-AU



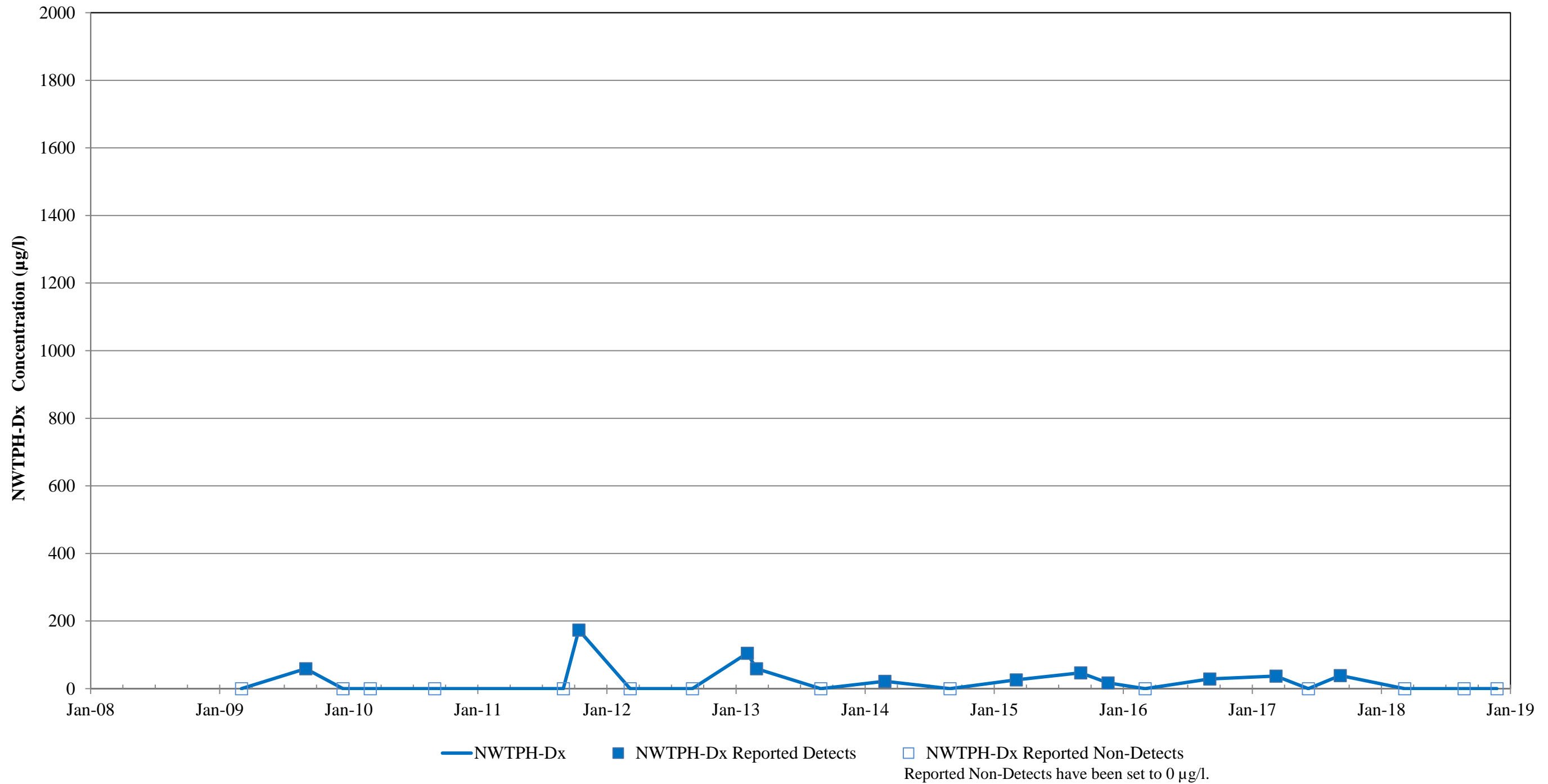
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S1-BD



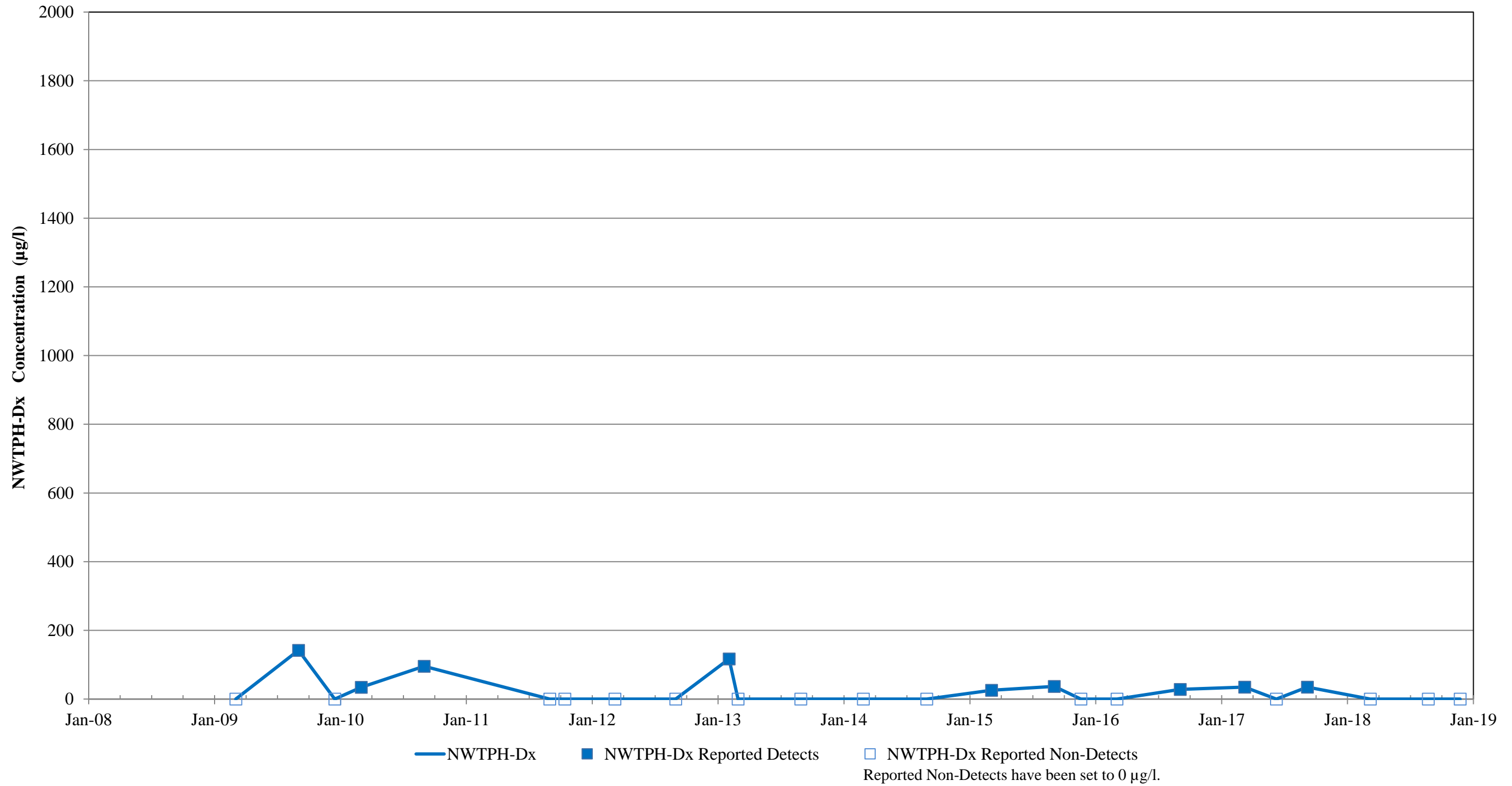
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S1-BU



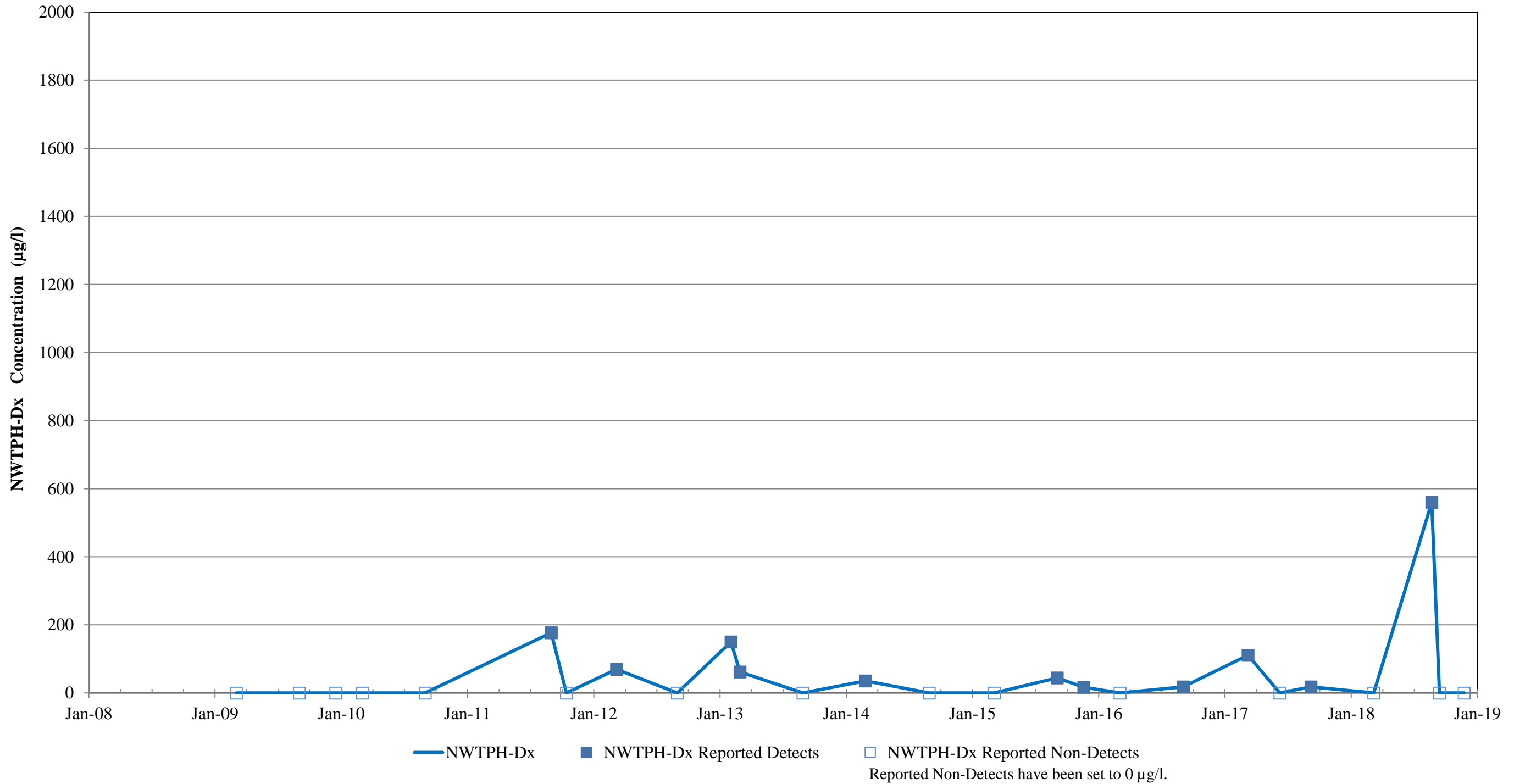
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S2-AD



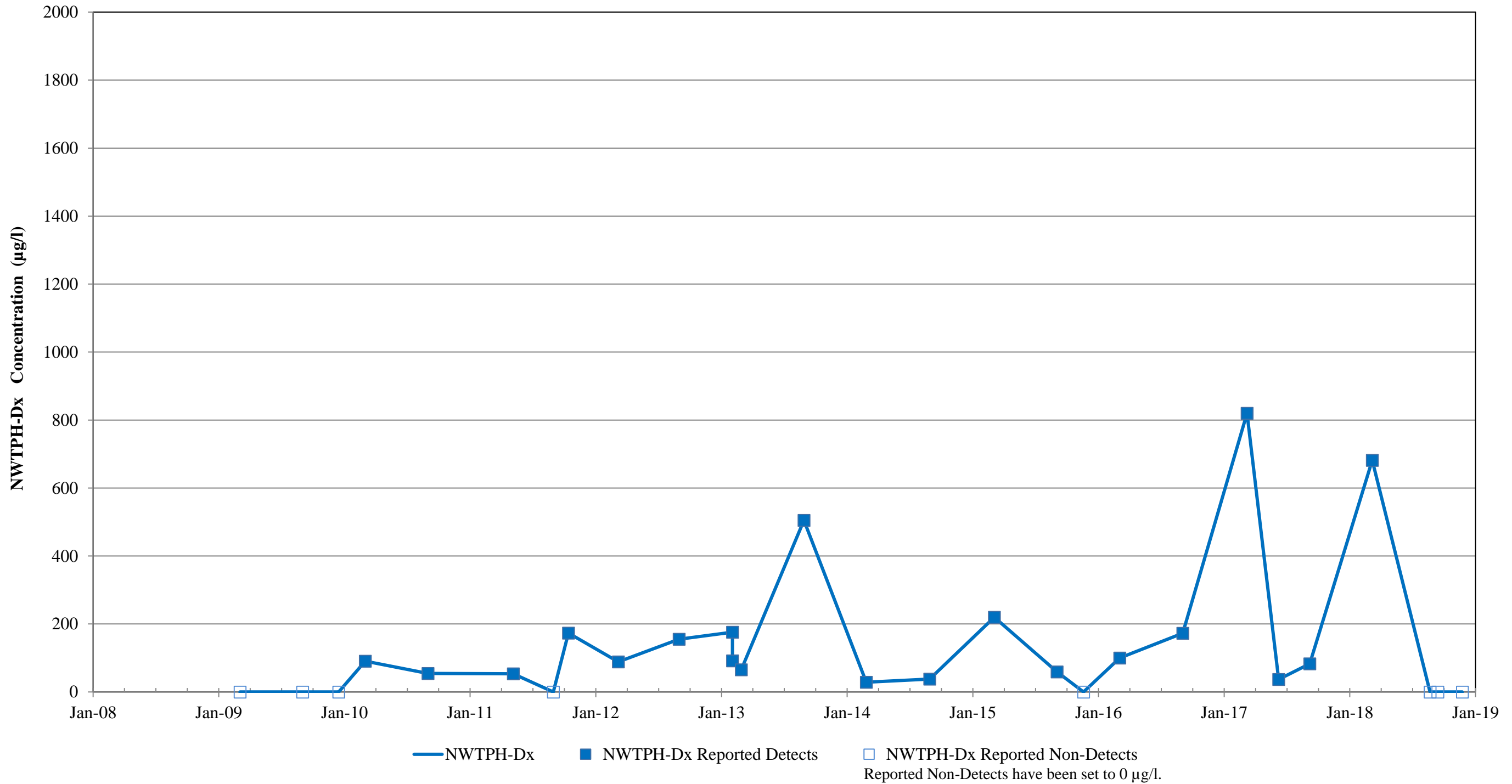
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S2-AU



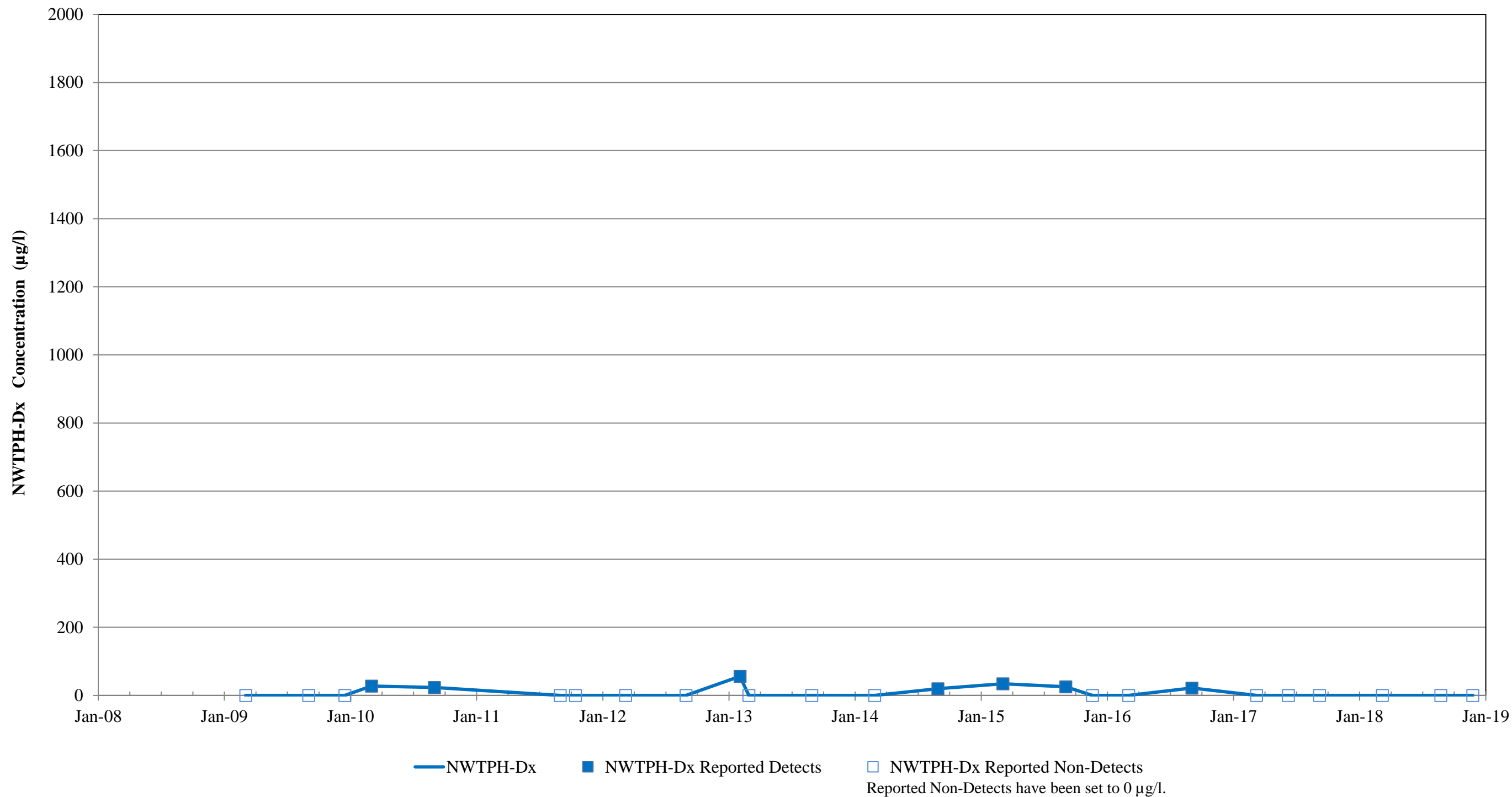
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S2-BD



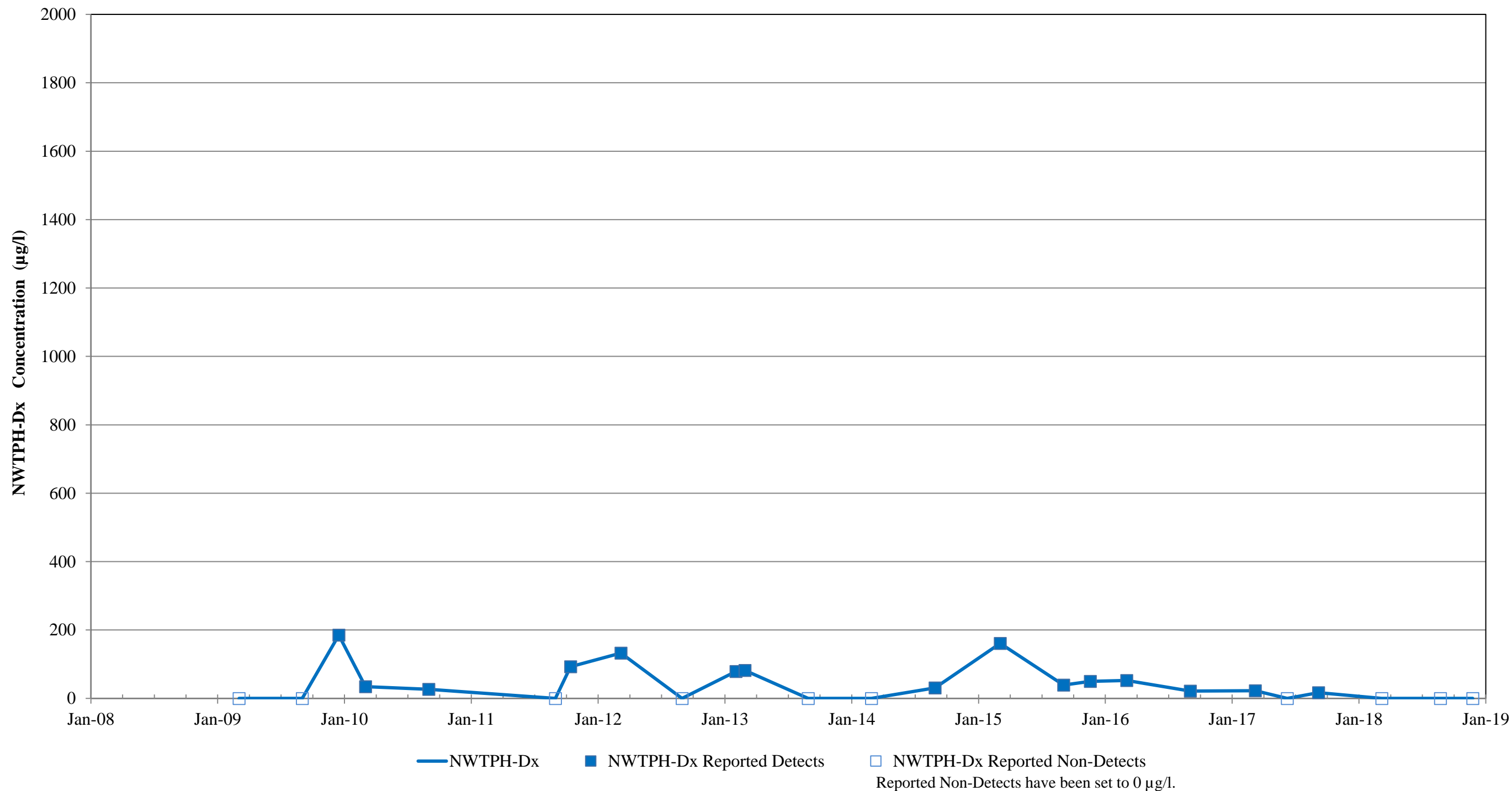
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S2-BU



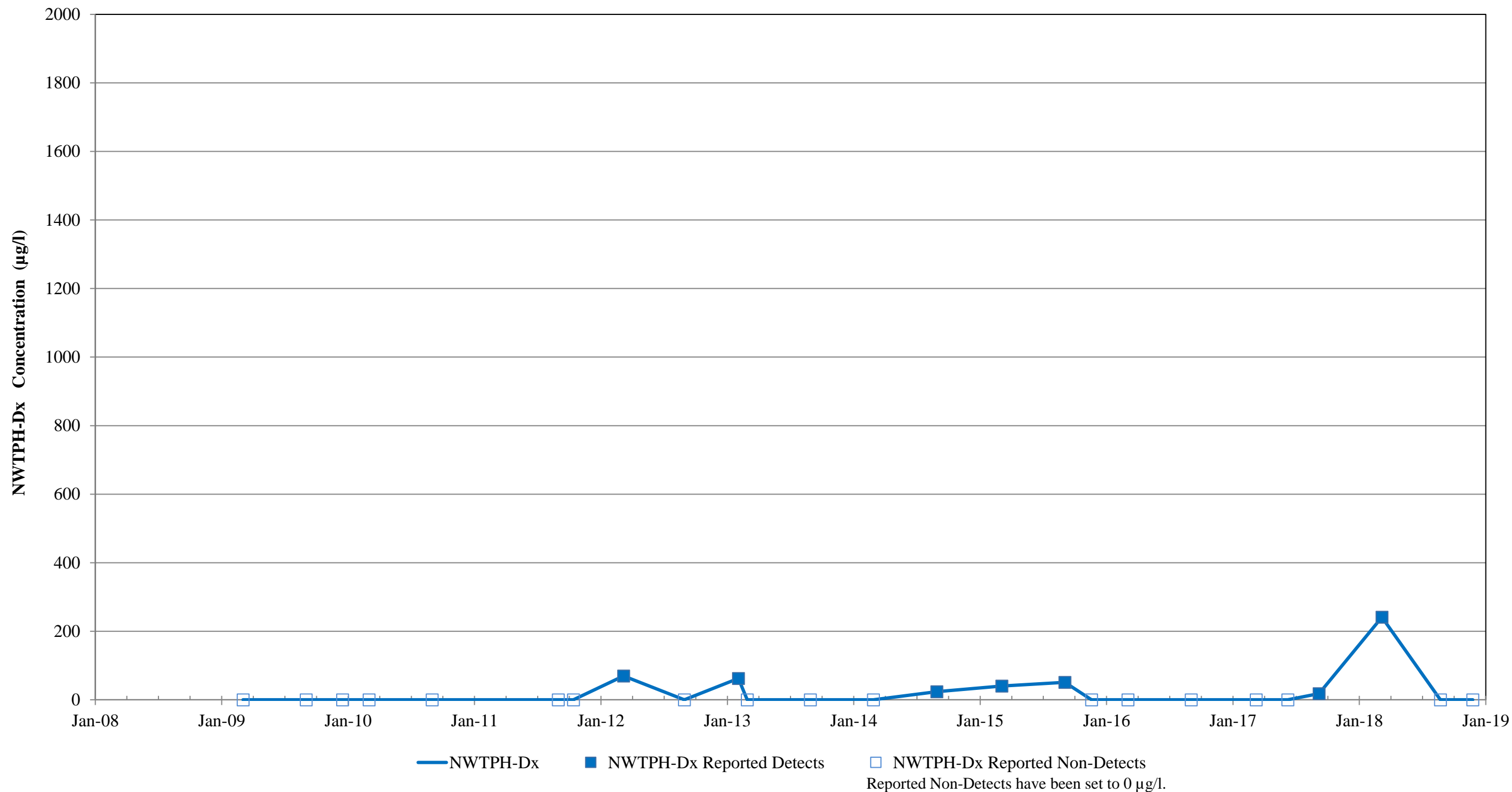
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S3-AD



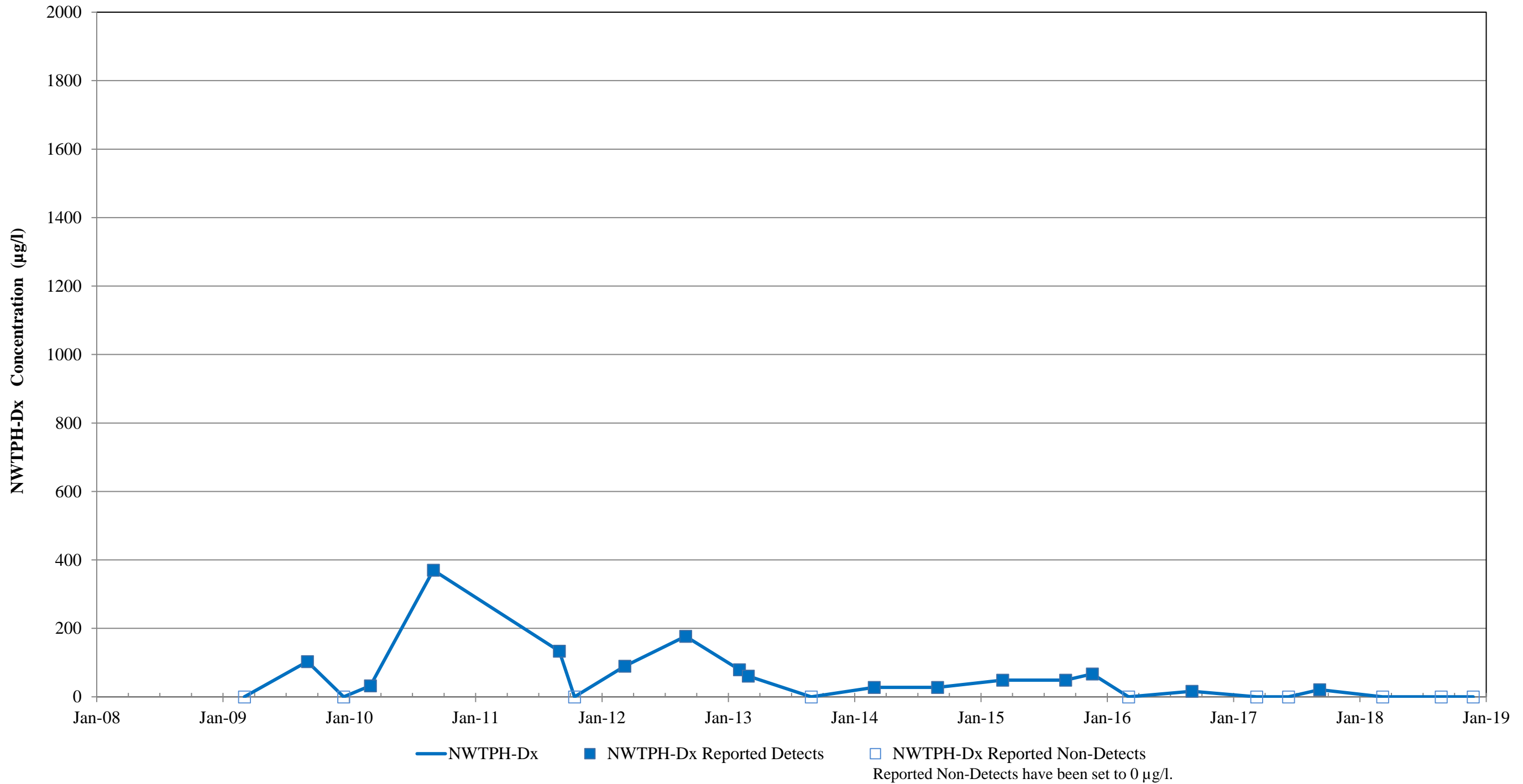
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S3-AU



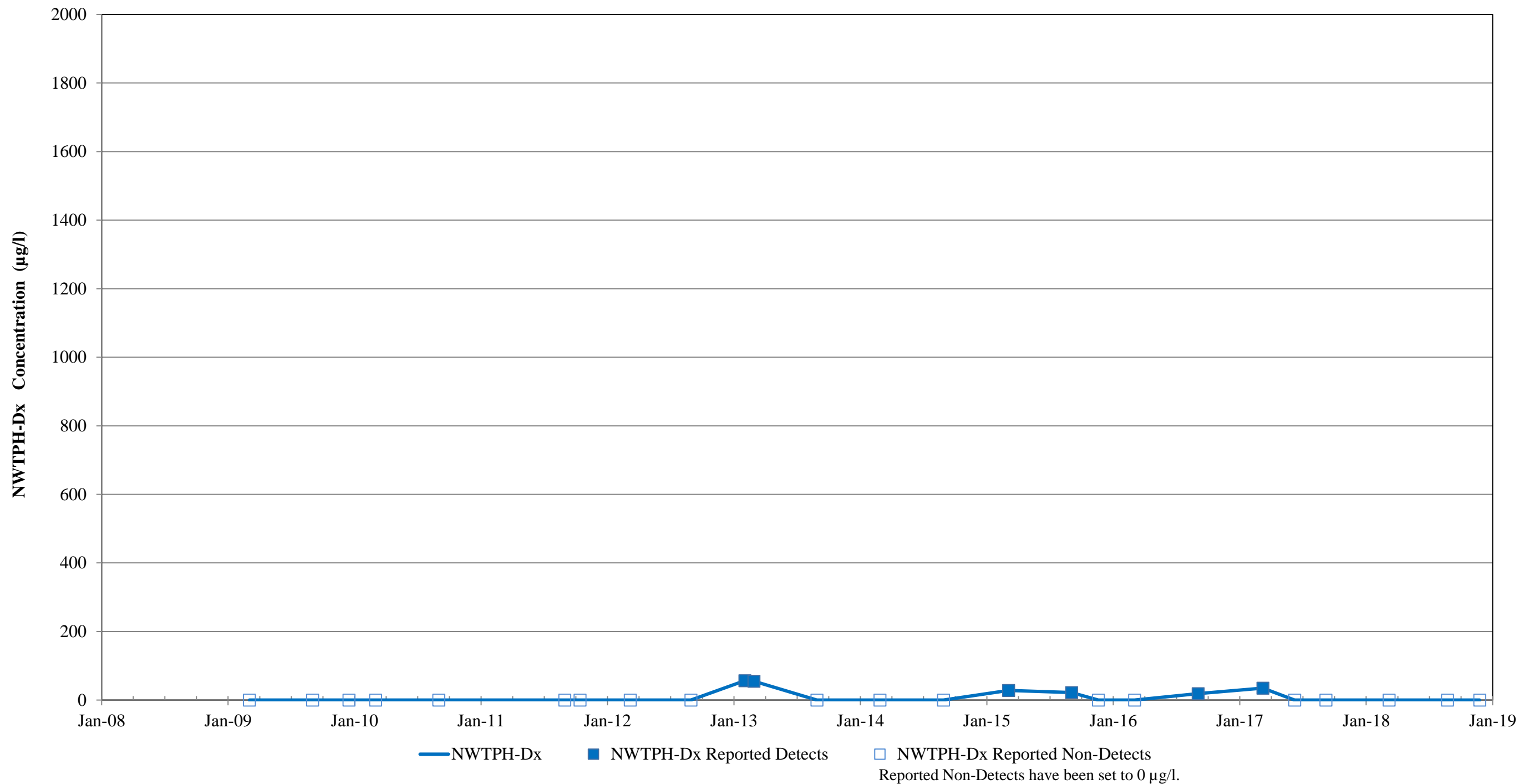
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S3-BD



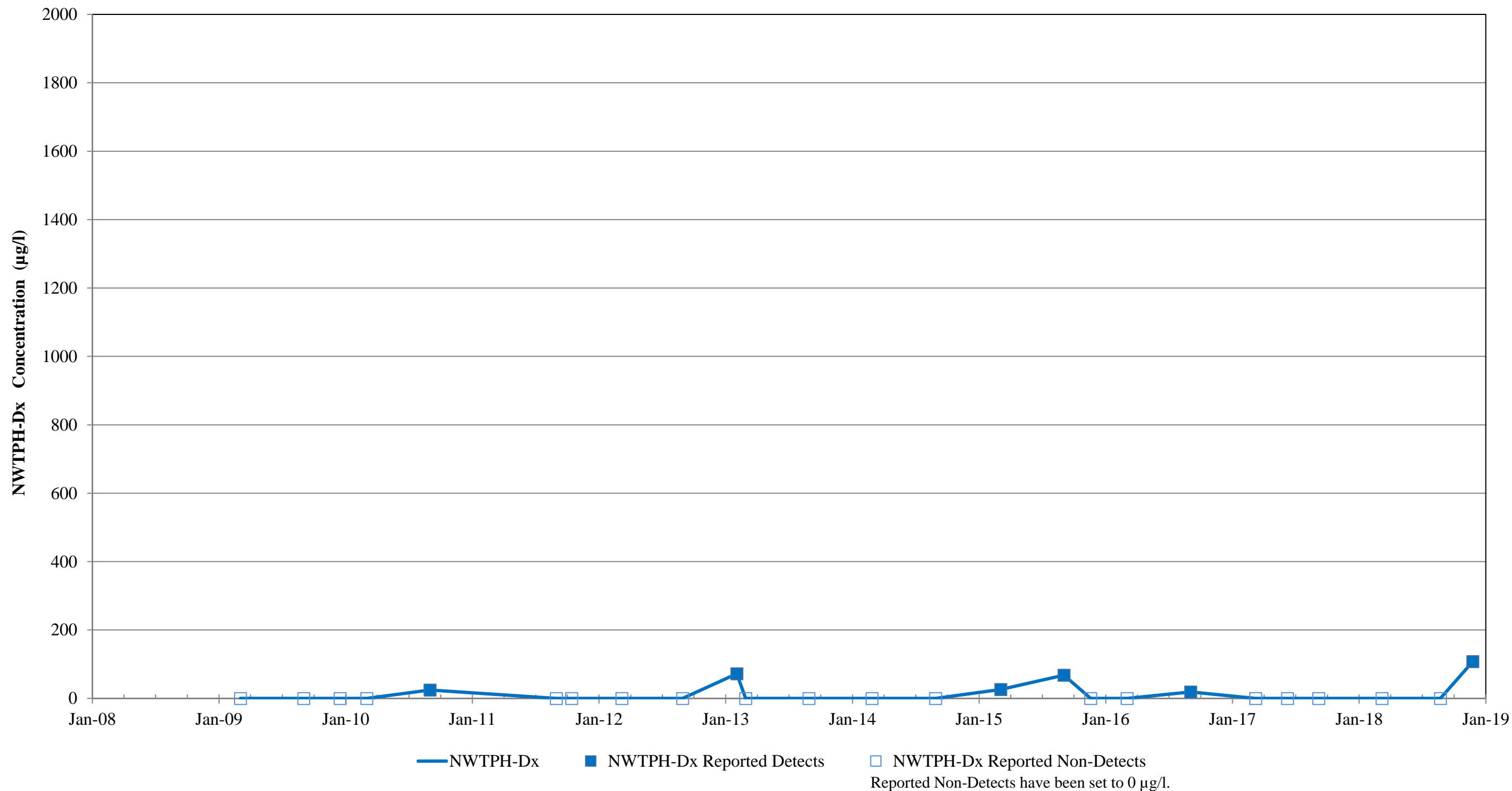
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S3-BU



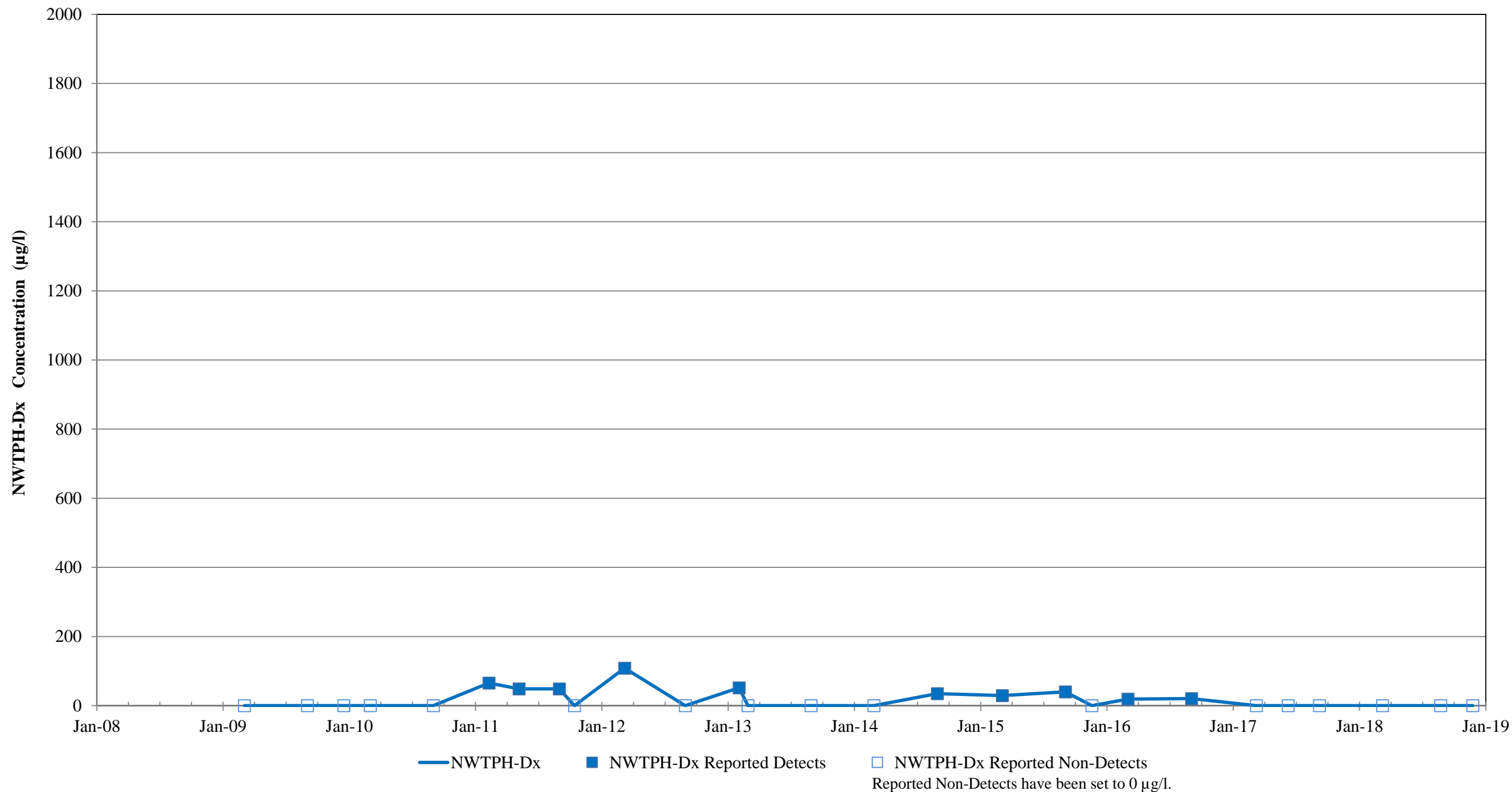
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S3-CD



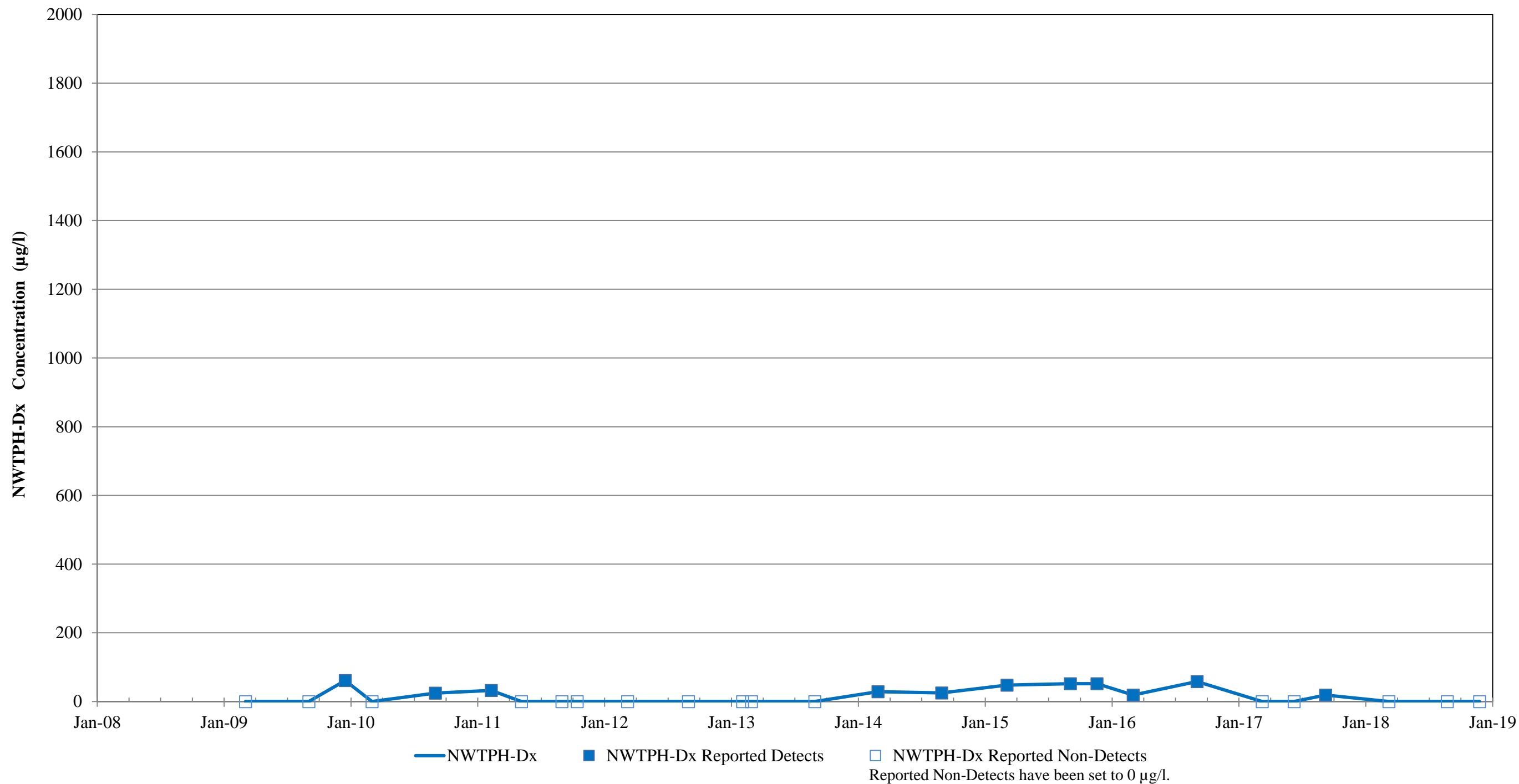
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S3-CU



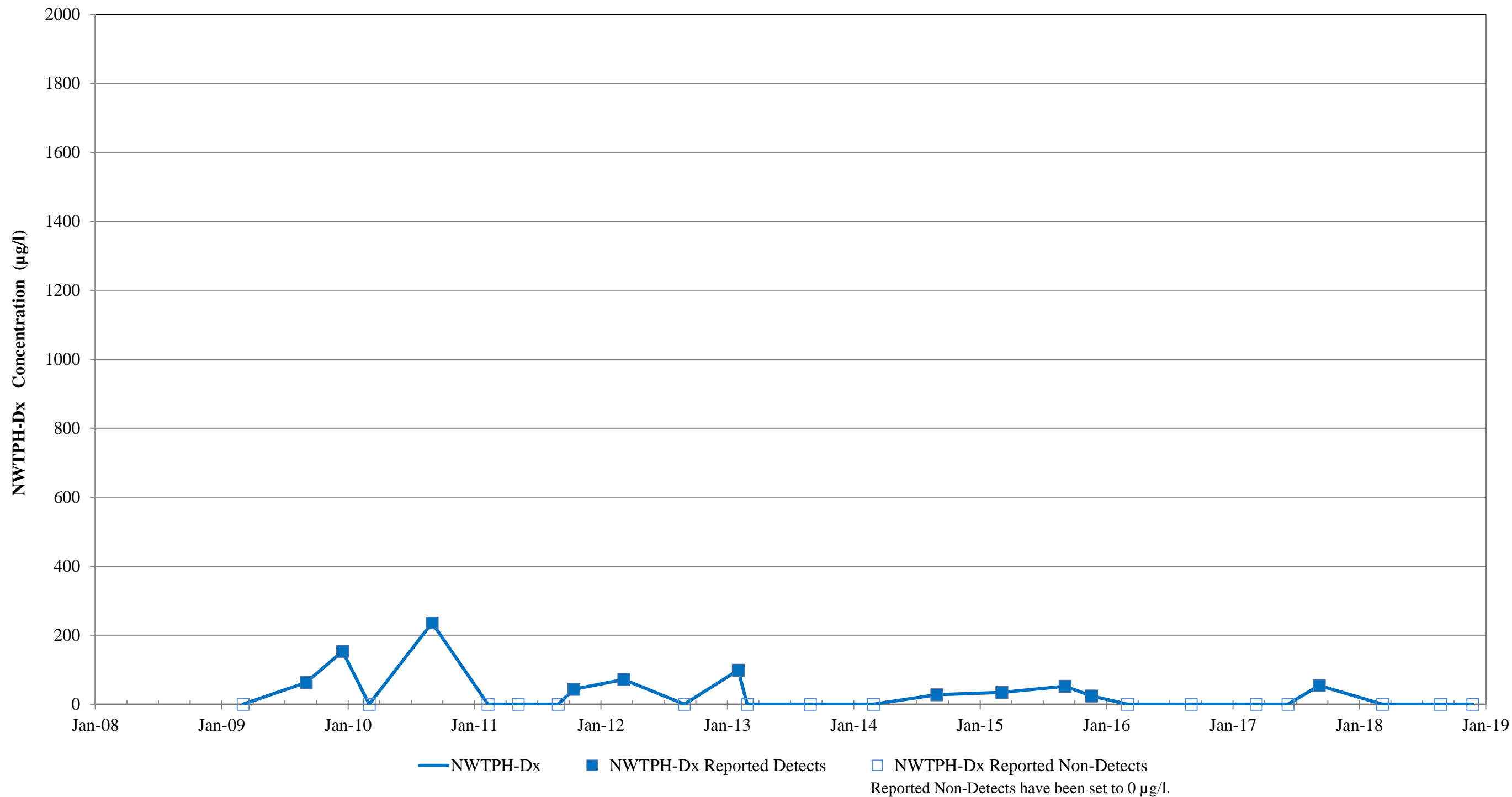
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S4-AD



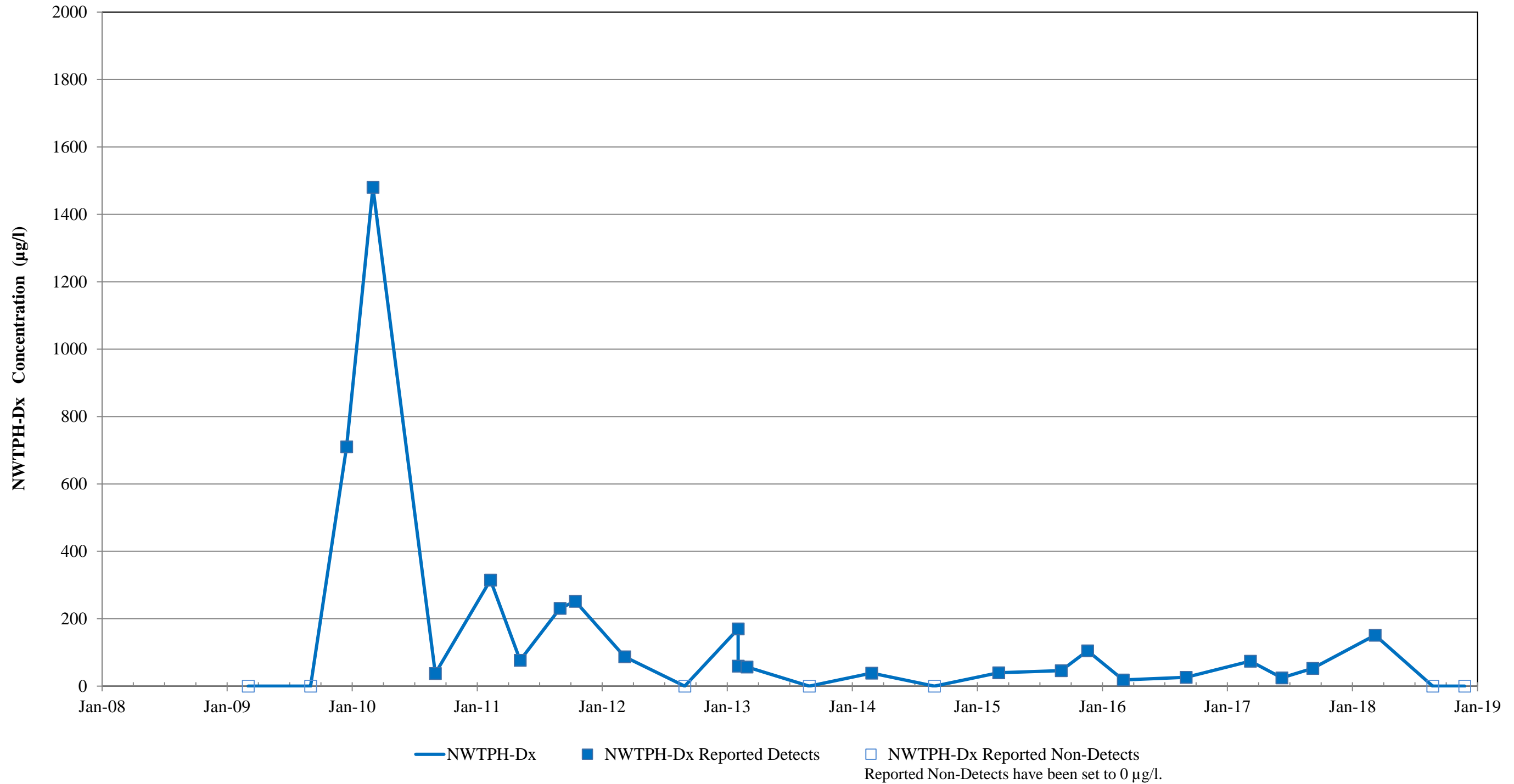
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S4-AU



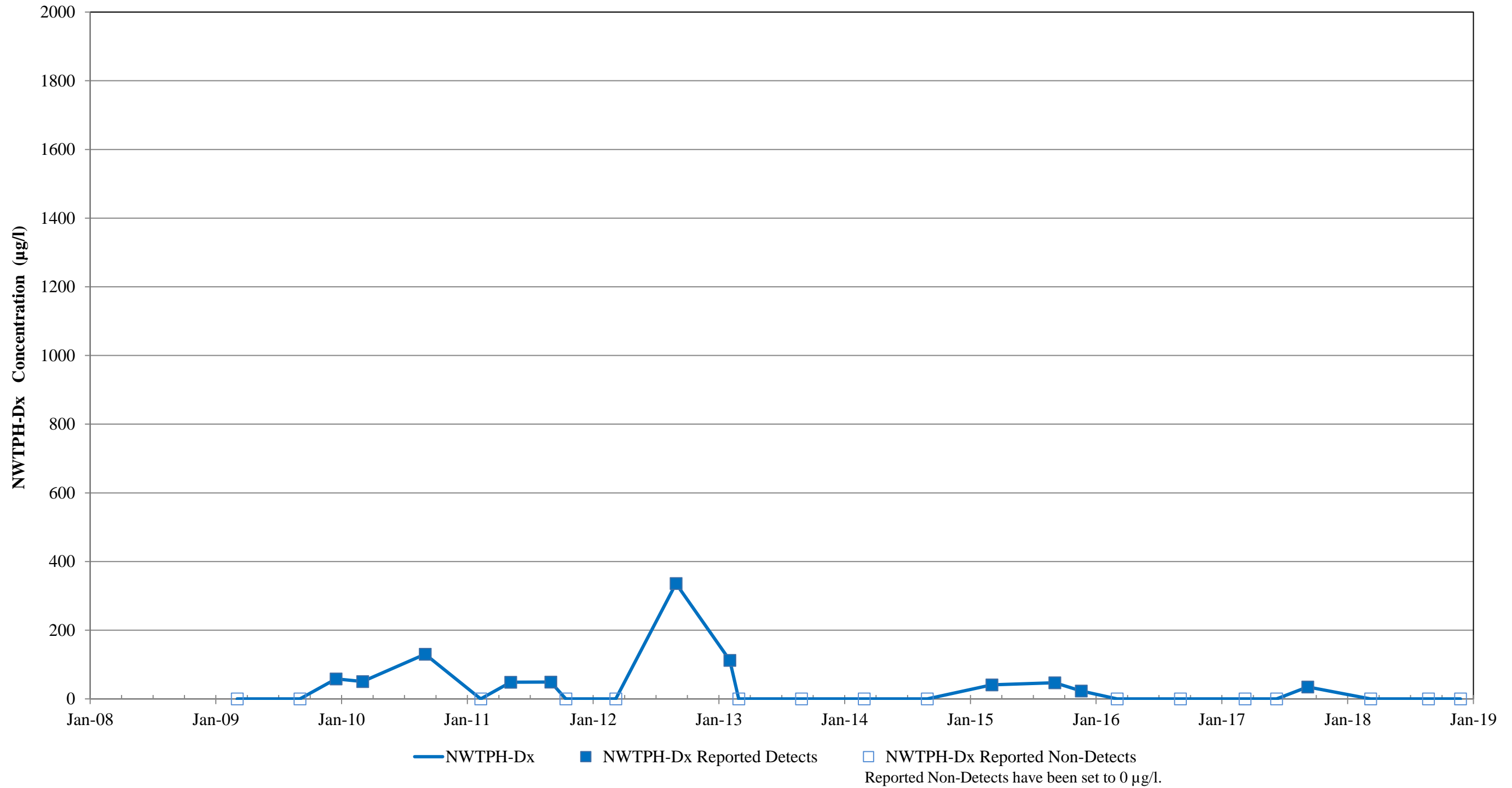
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S4-BD



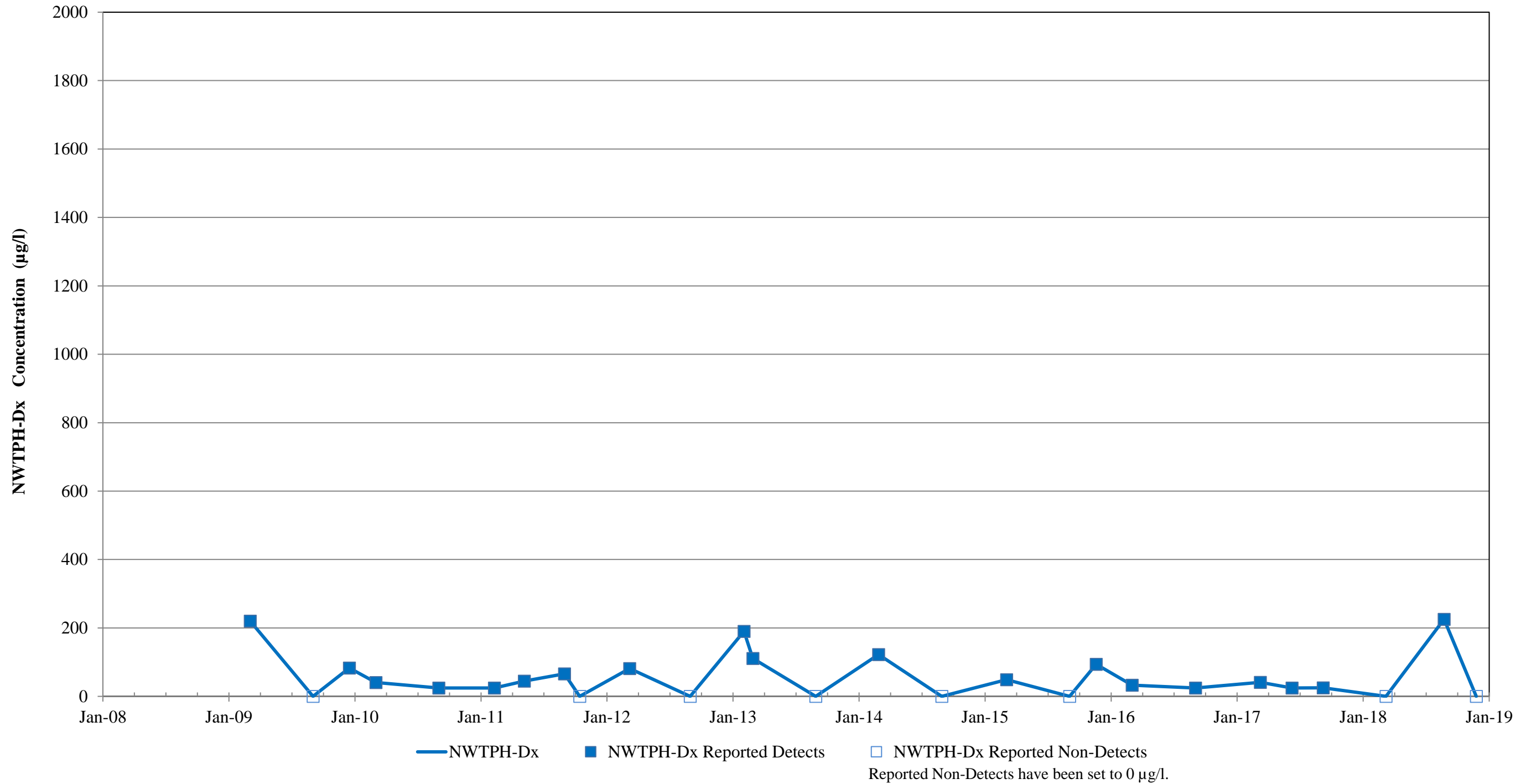
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S4-BU



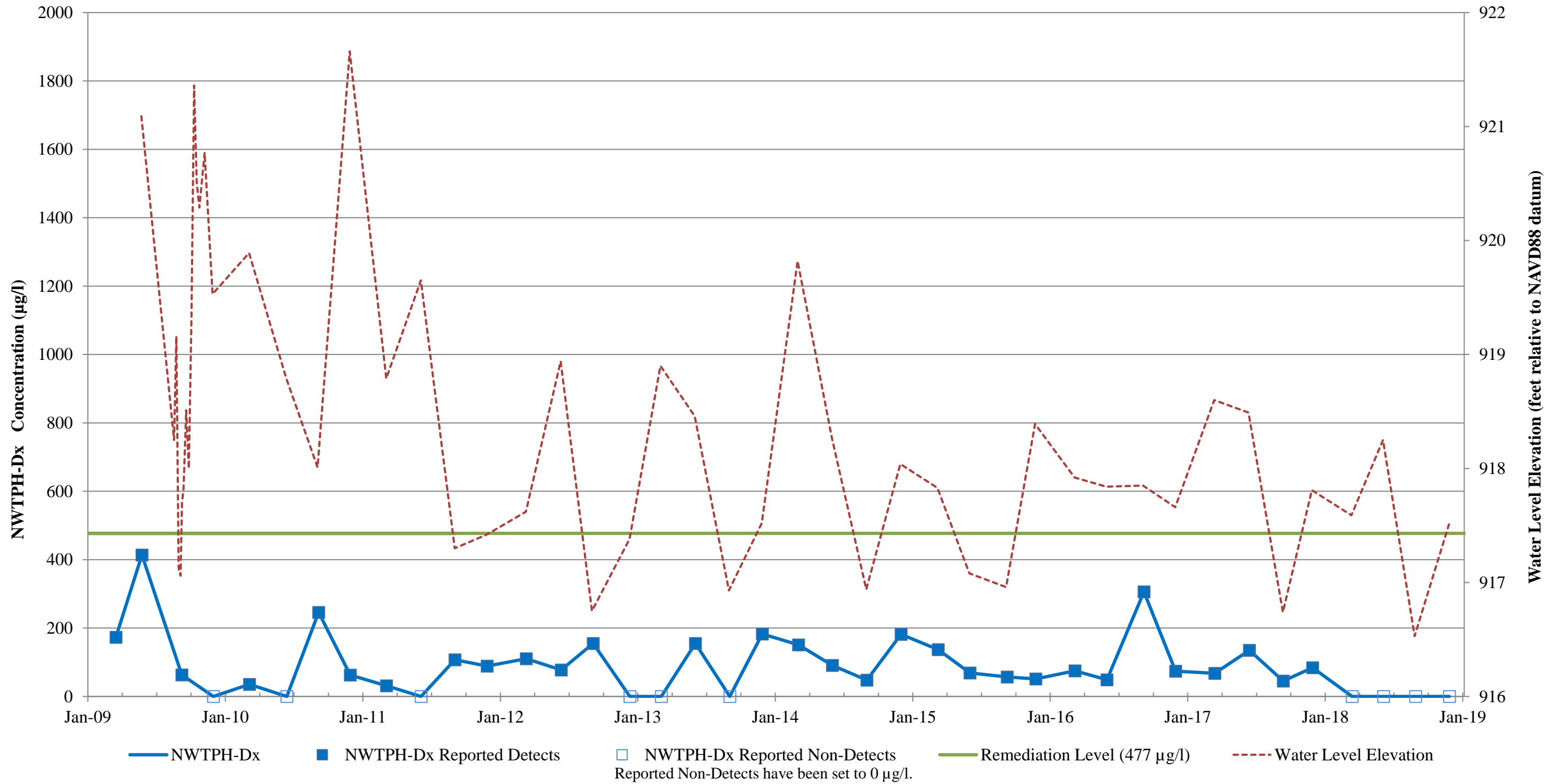
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S4-CD



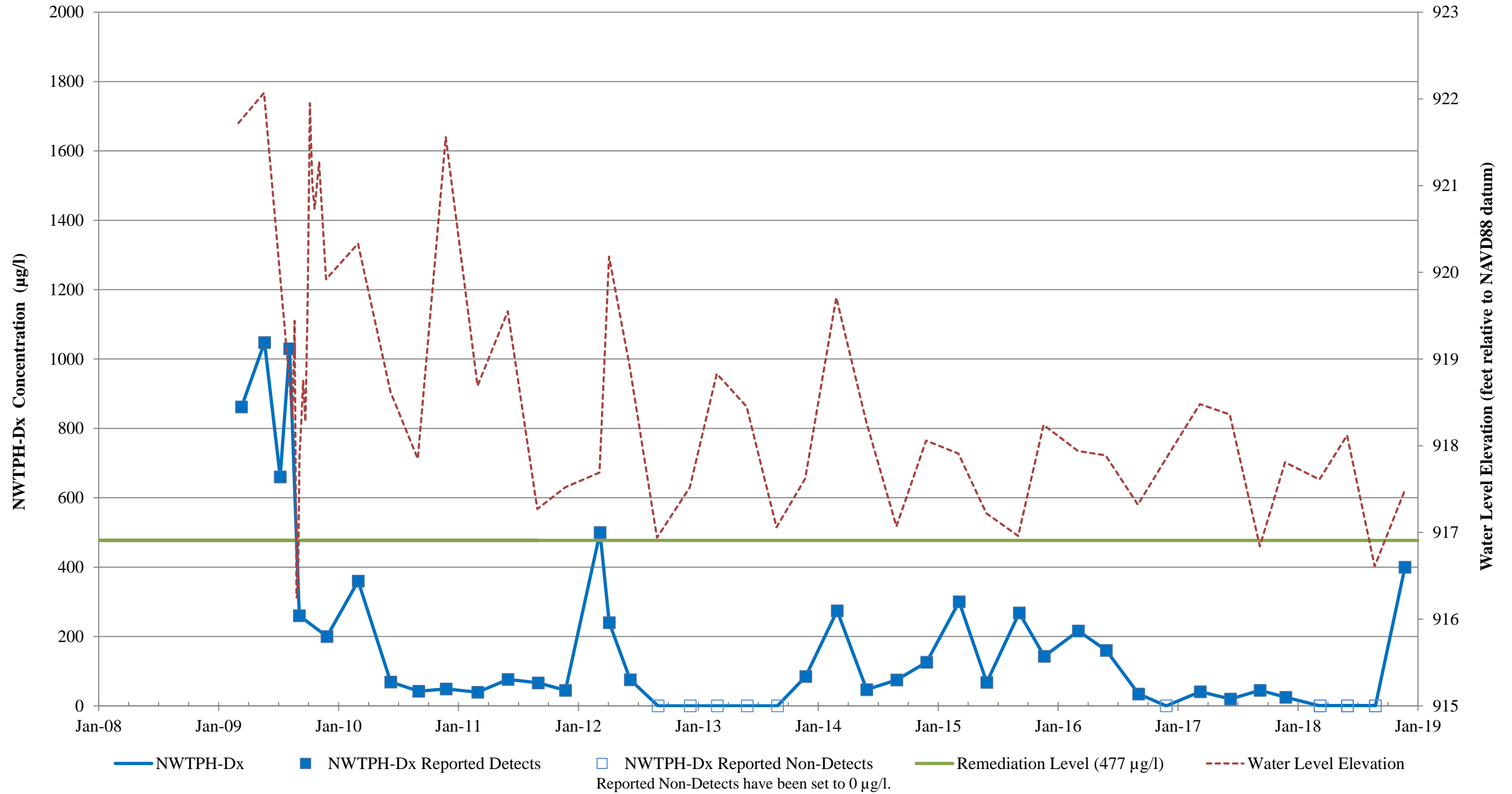
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well S4-CU



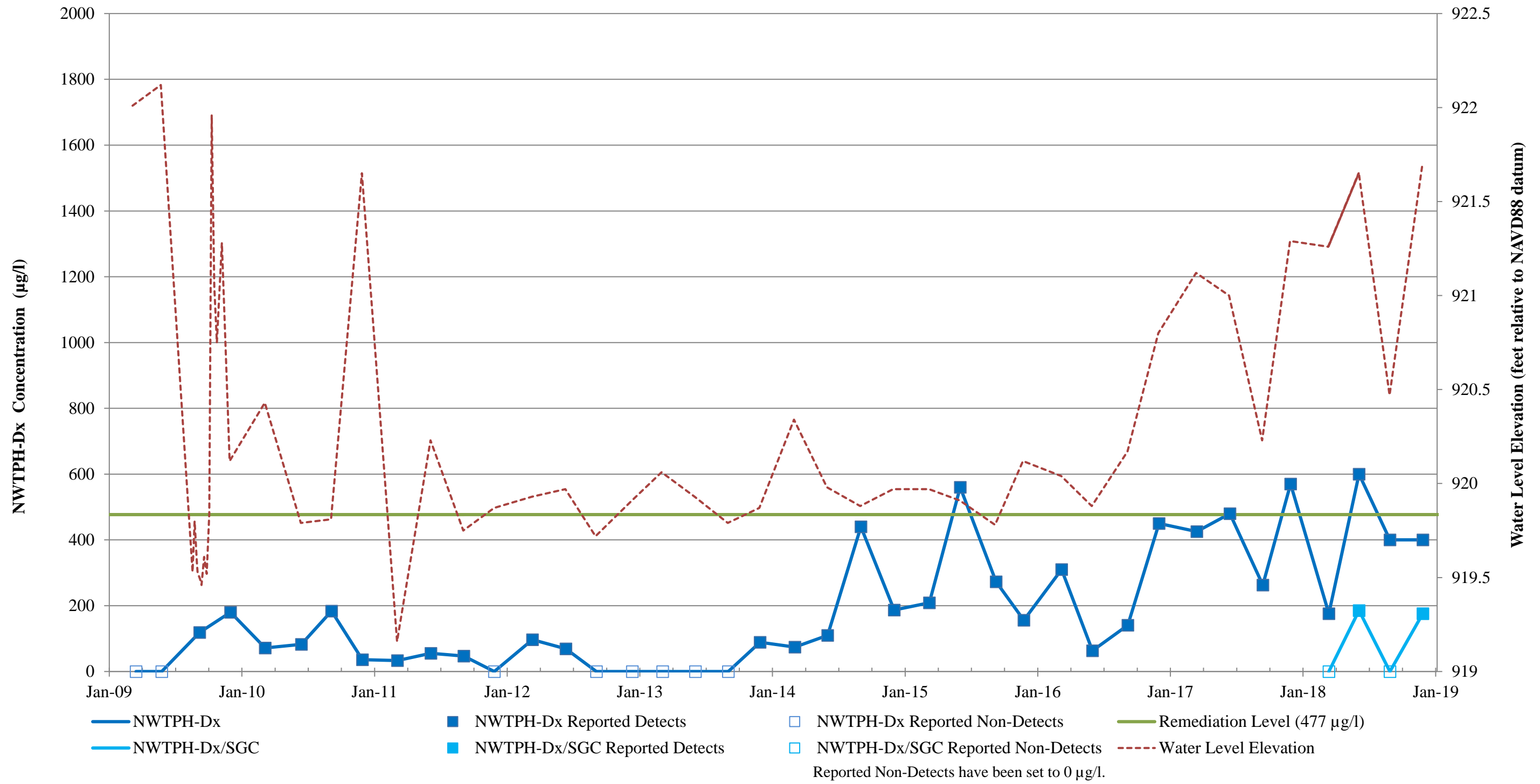
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well GW-1



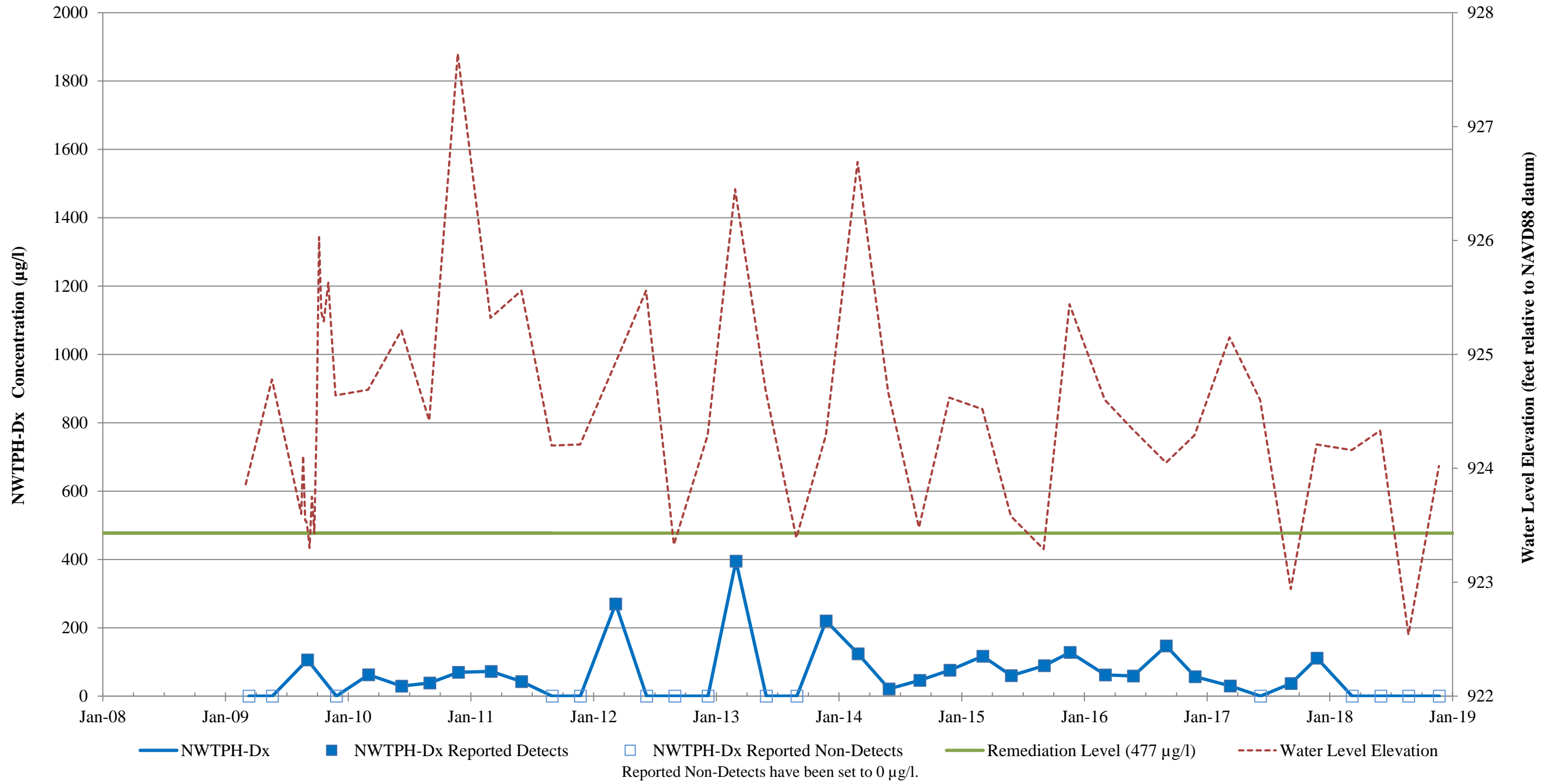
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well GW-2



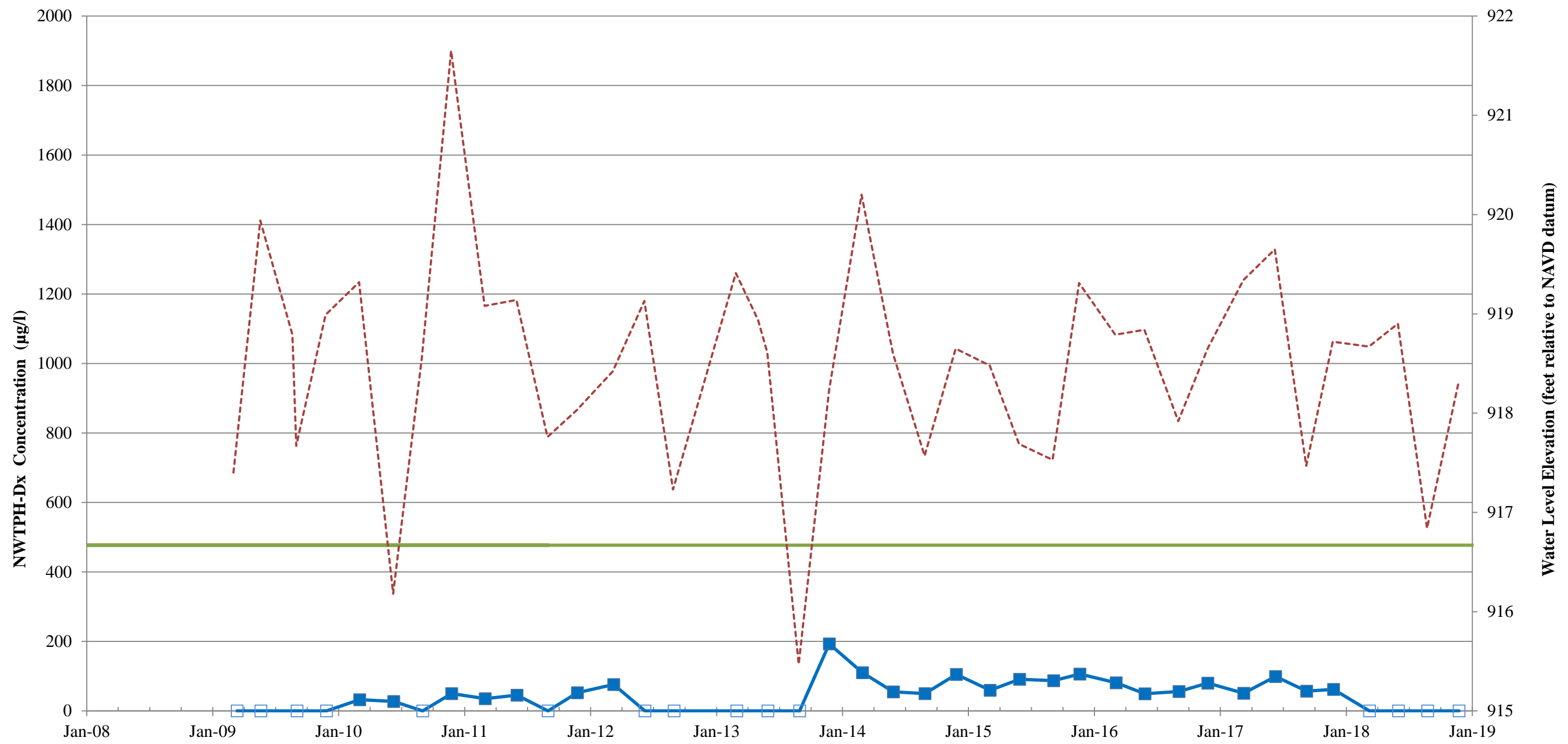
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well GW-3



**NWTPH-Dx Trend Plot
 BNSF Former Maintenance and Fueling Facility
 Skykomish, Washington
 Farallon PN: 683-067
 Well GW-4**



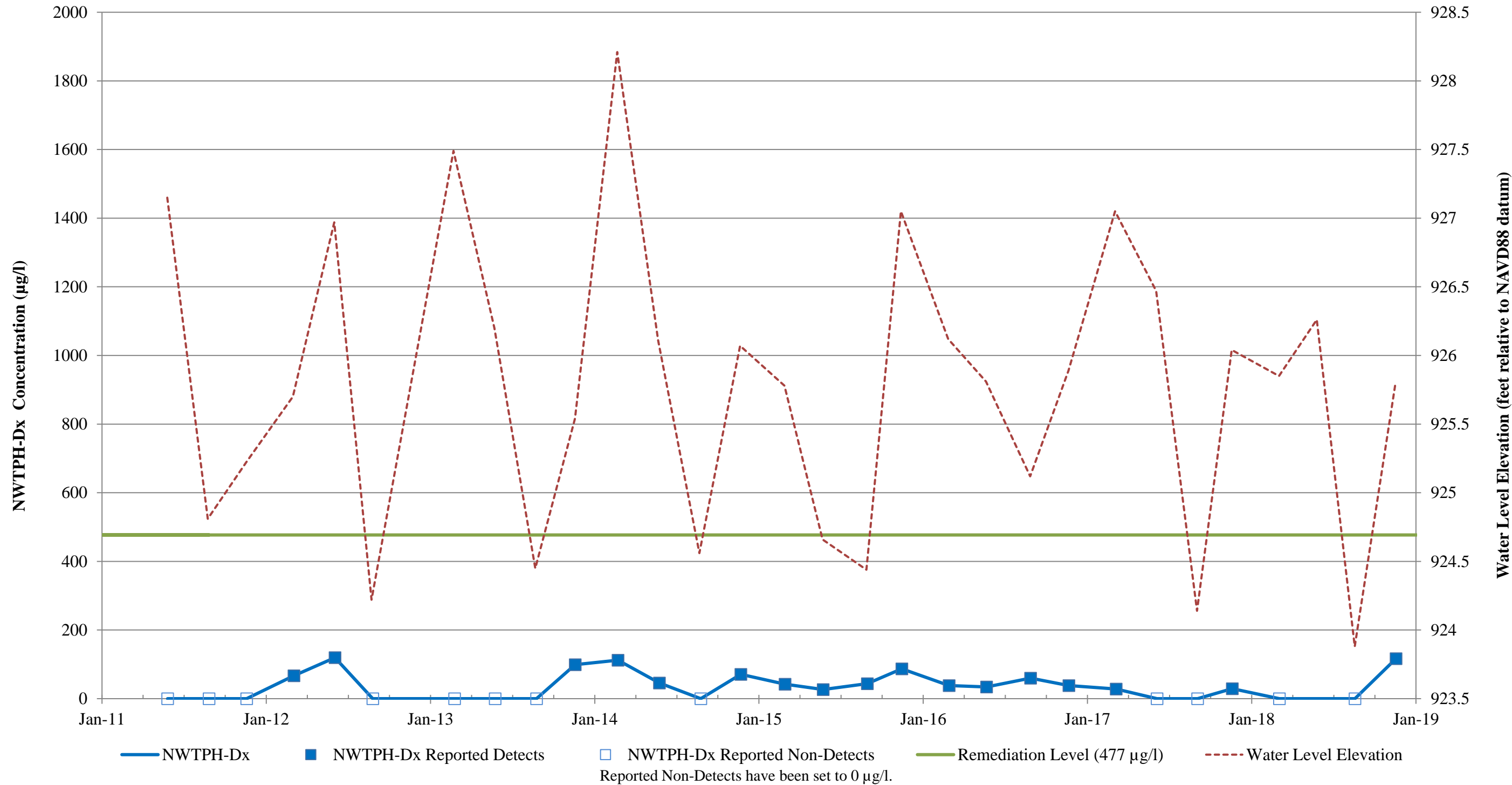
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well EW-1



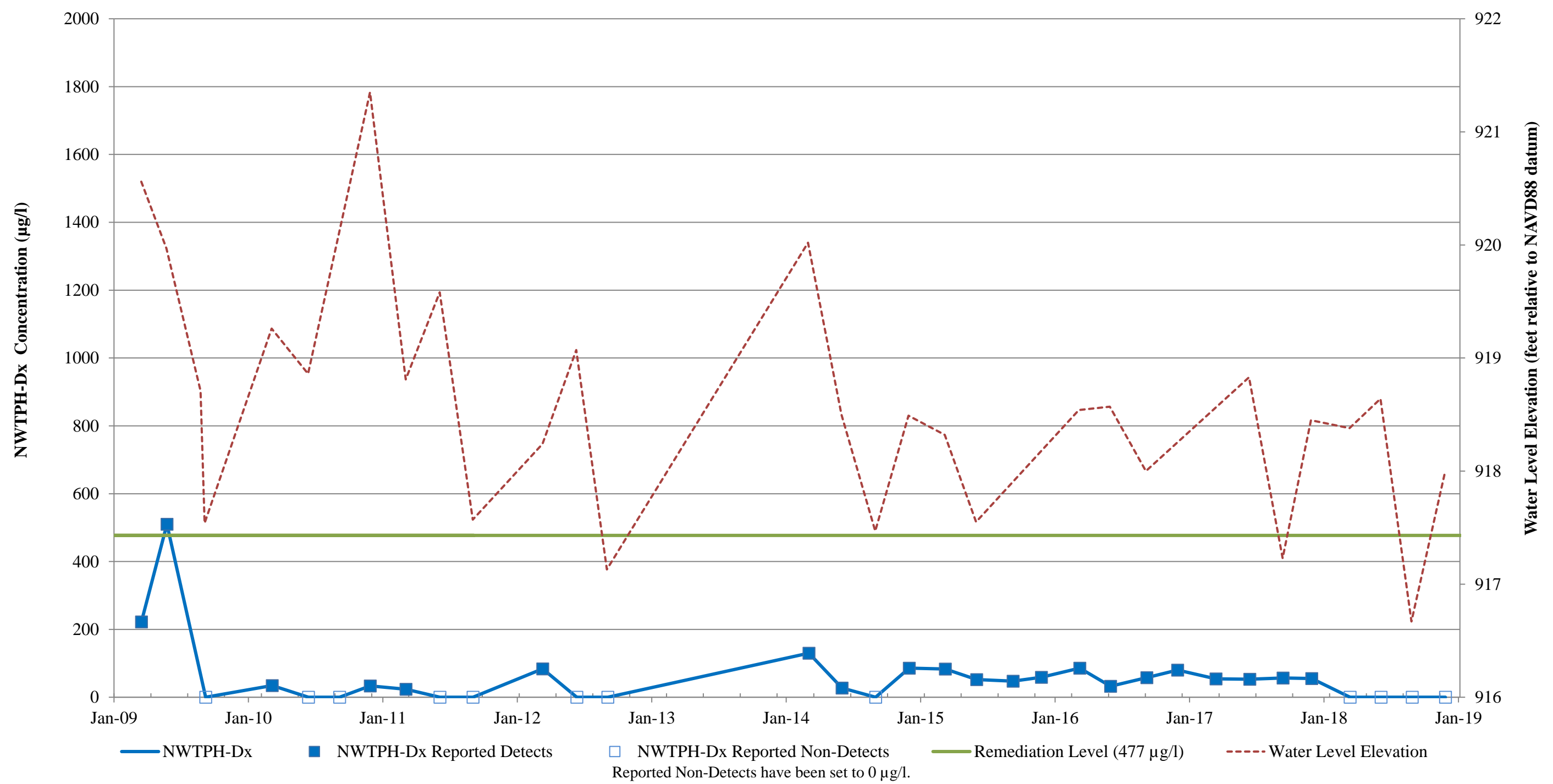
—■ NWTPH-Dx
 ■ NWTPH-Dx Reported Detects
 □ NWTPH-Dx Reported Non-Detects
 — Remediation Level (477 µg/l)
 - - - Water Level Elevation

Reported Non-Detects have been set to 0 µg/l.

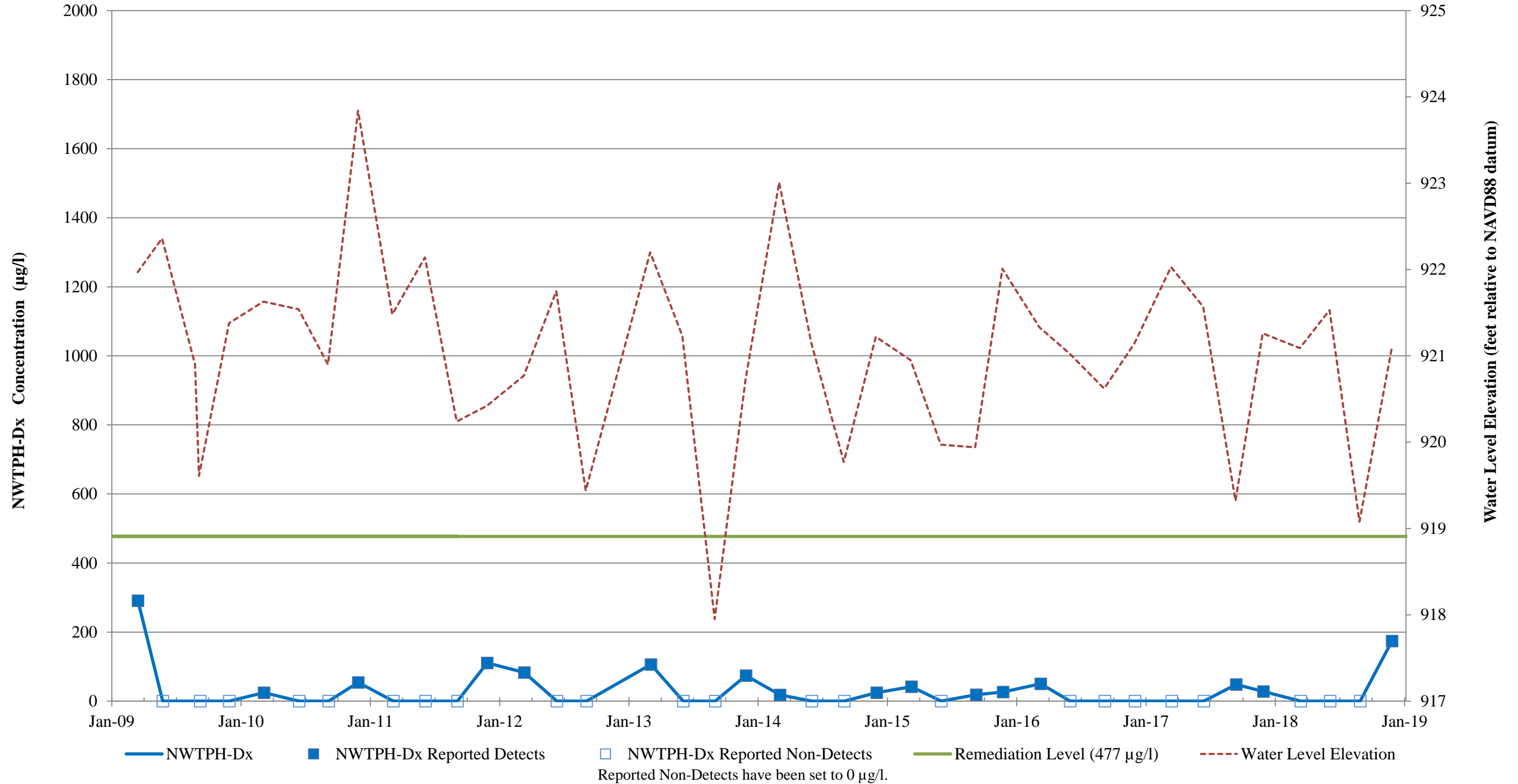
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well EW-2A



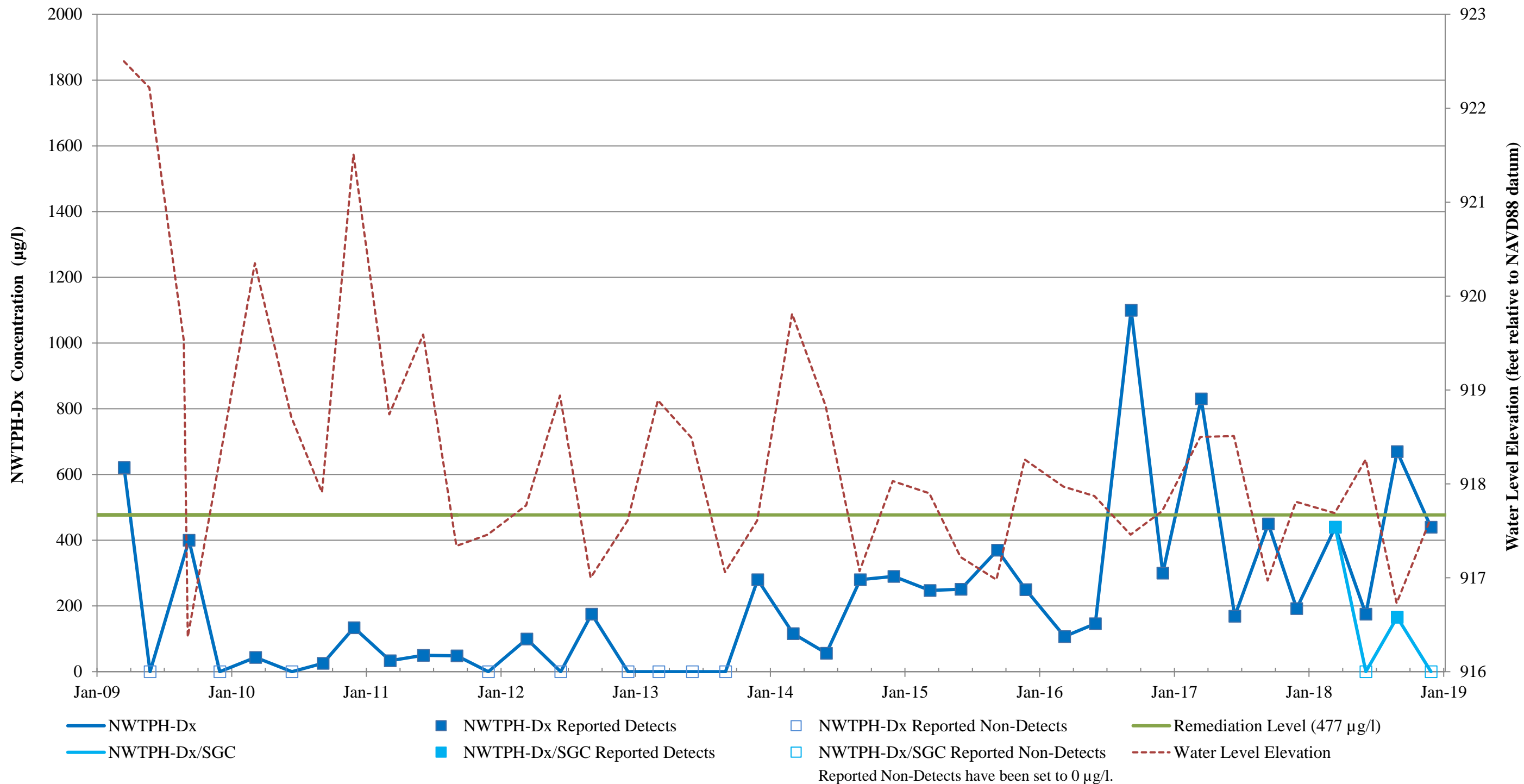
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 5-W-43



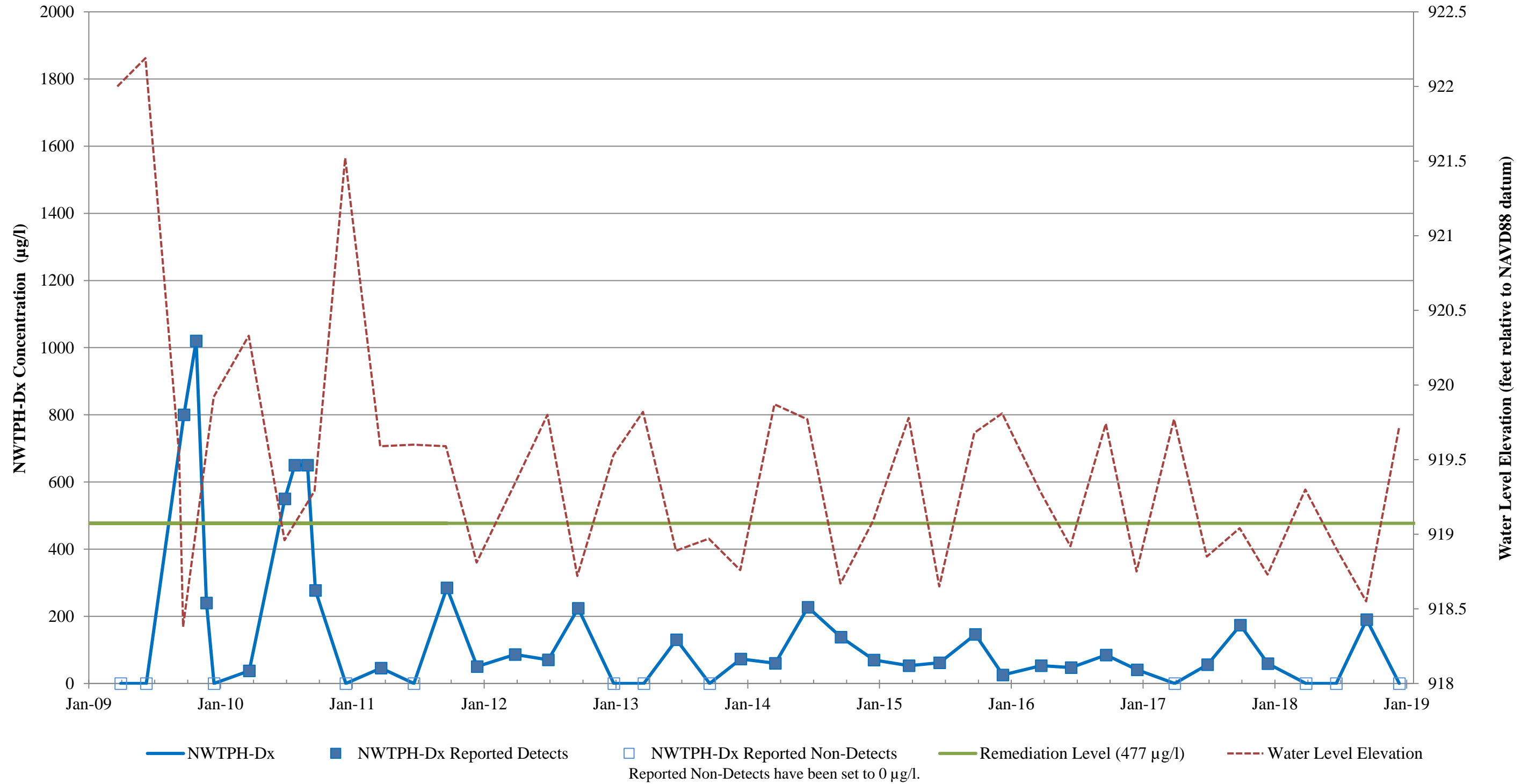
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 2A-W-40



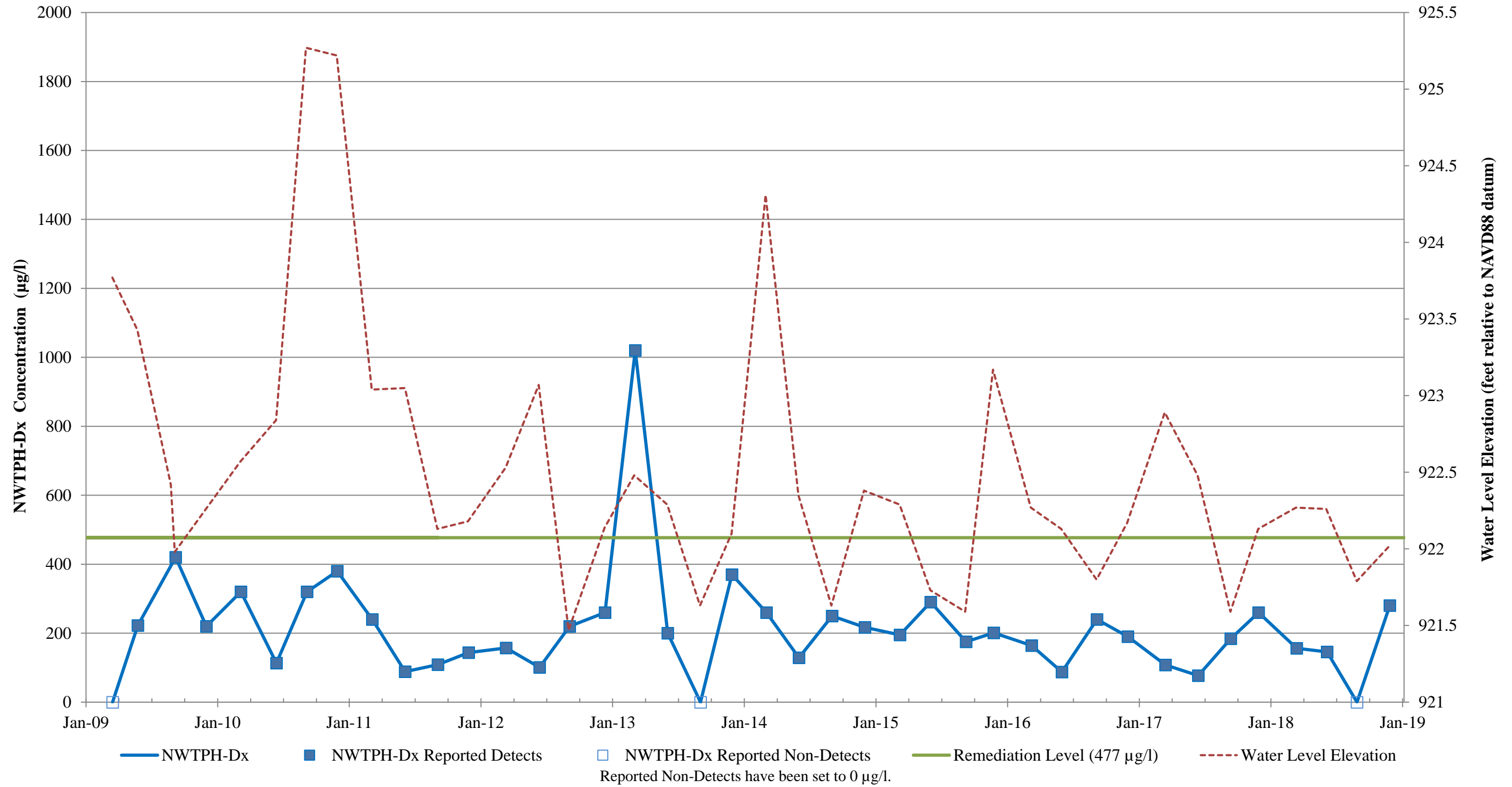
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 2A-W-41



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 1B-W-23



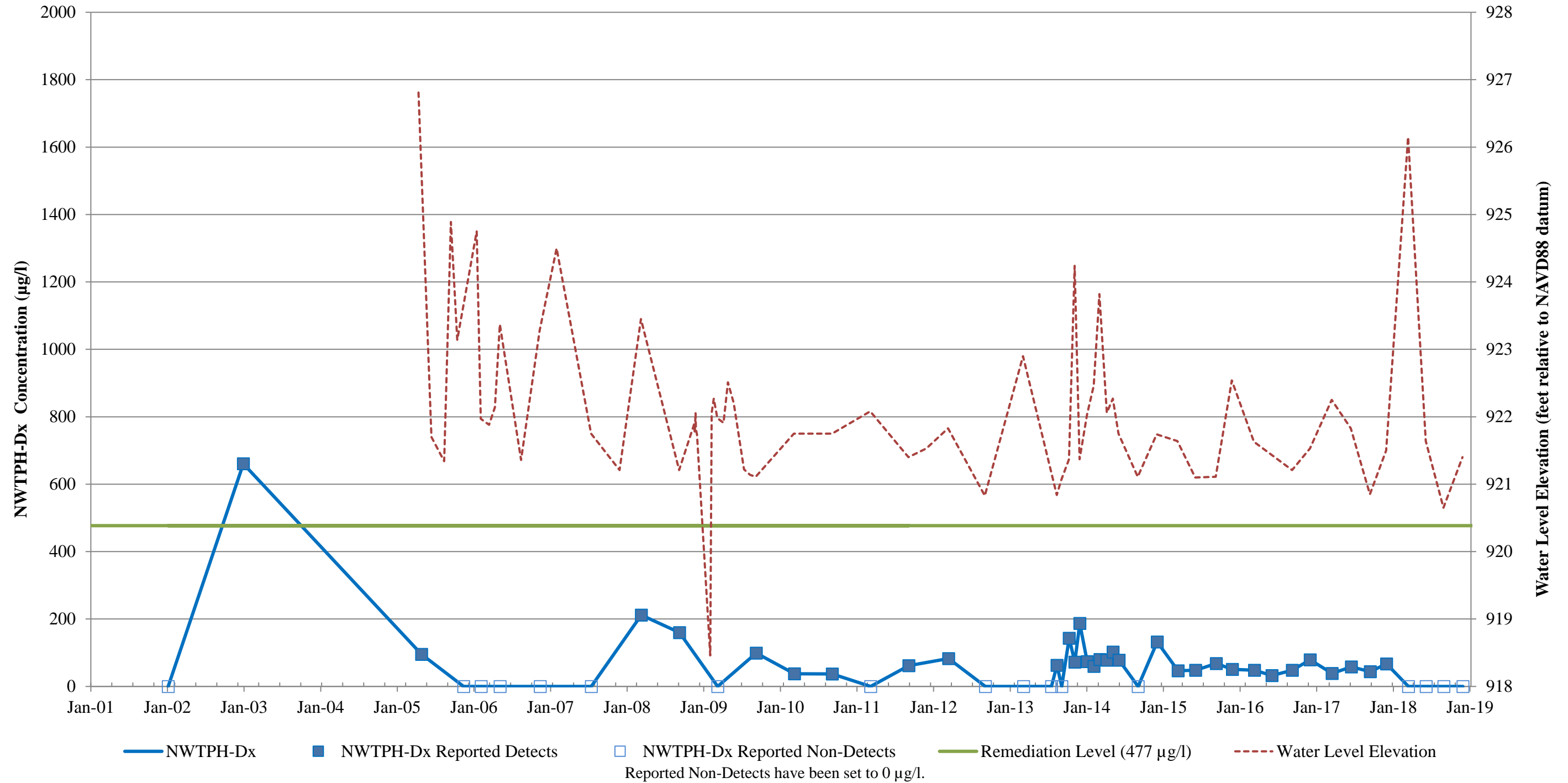
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 2A-W-42



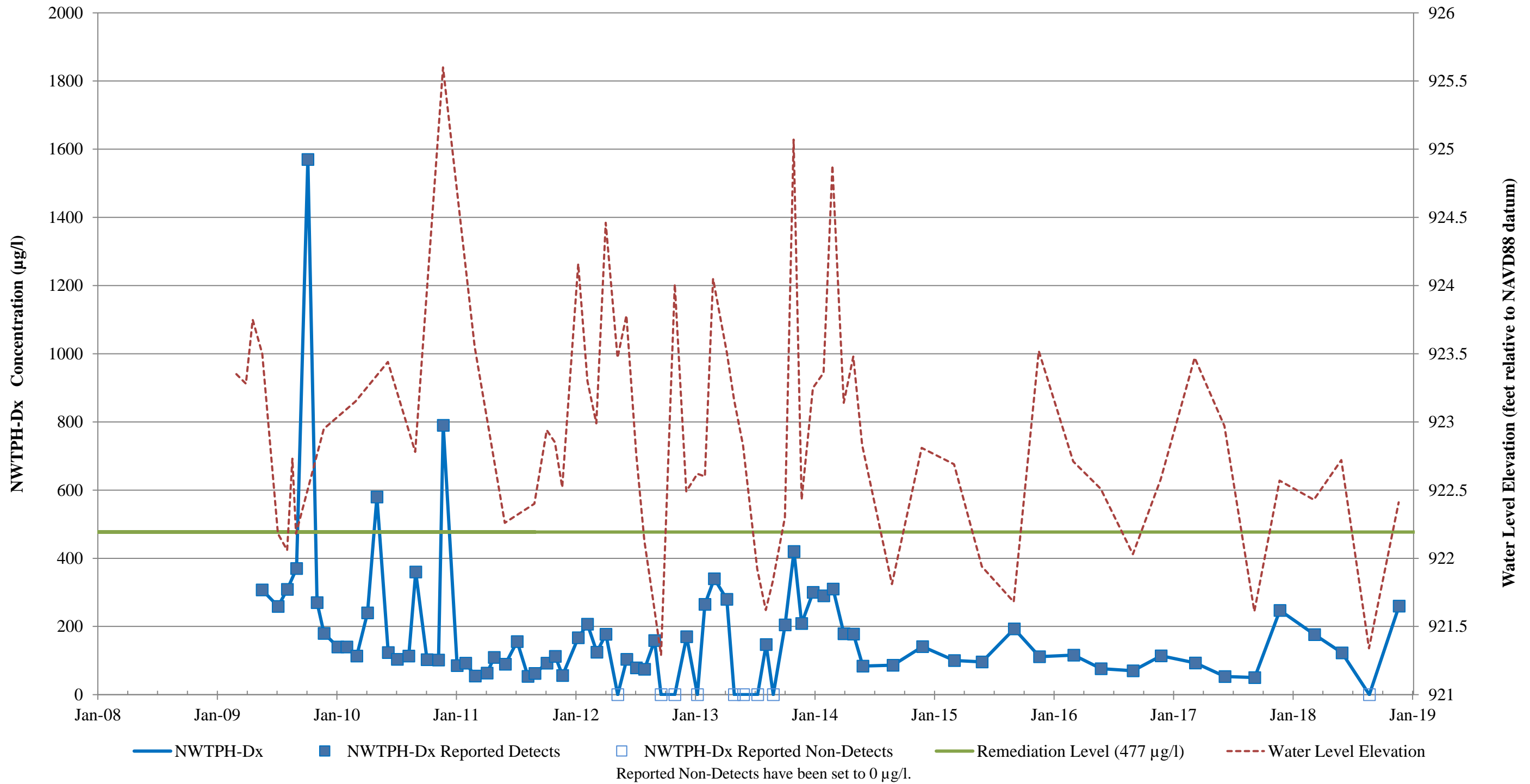
Former Air Sparge Area Monitoring Wells

Note: Former Air Sparge Area monitoring well NWTPH-Dx groundwater results are compared to the RL of 477 micrograms per liter.

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 1B-W-3

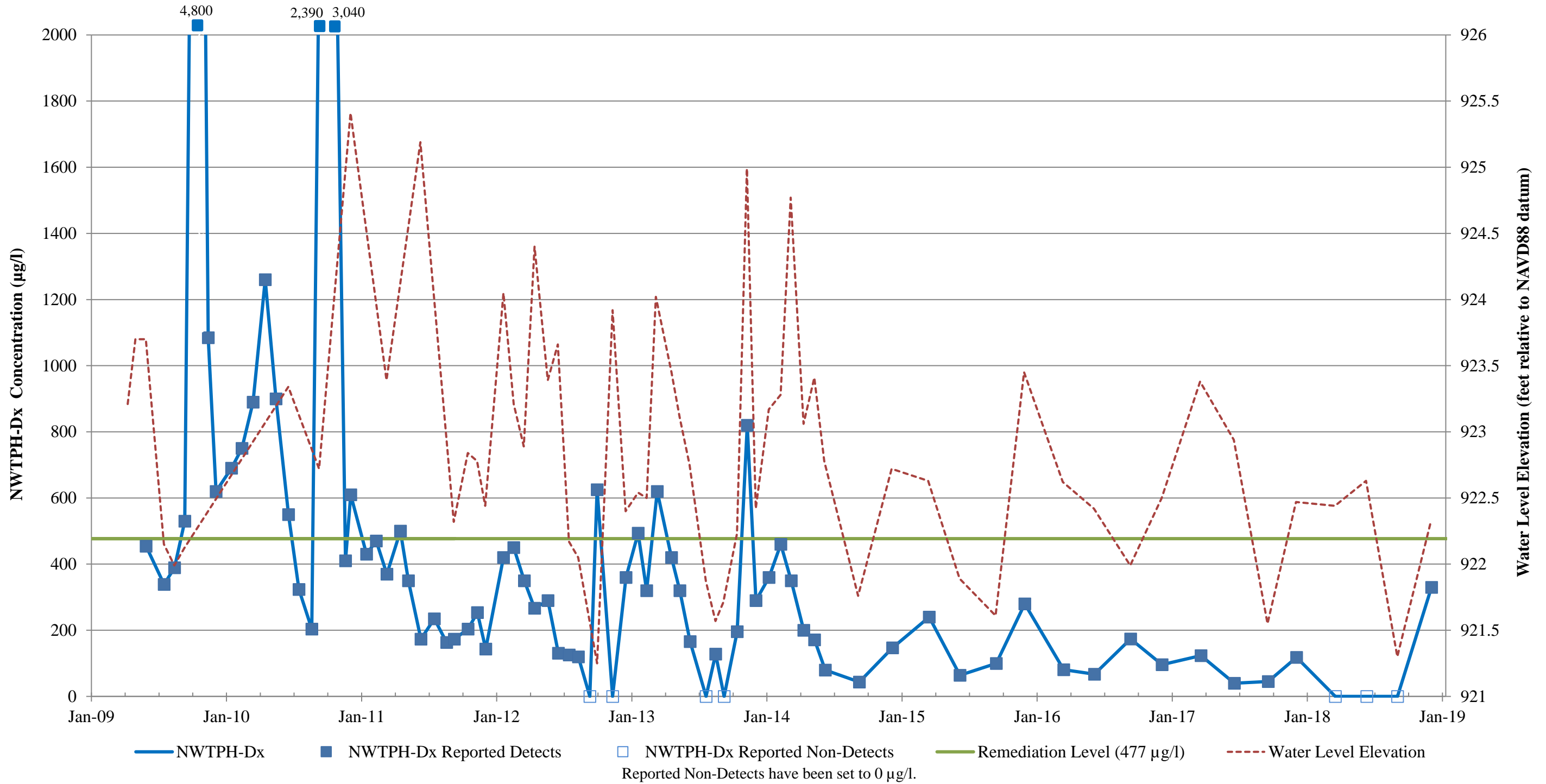


NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 1C-W-7



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 1C-W-8

NWTPH-Dx concentrations exceeding the plot scale are shown above the plot area with the associated reported concentration value.

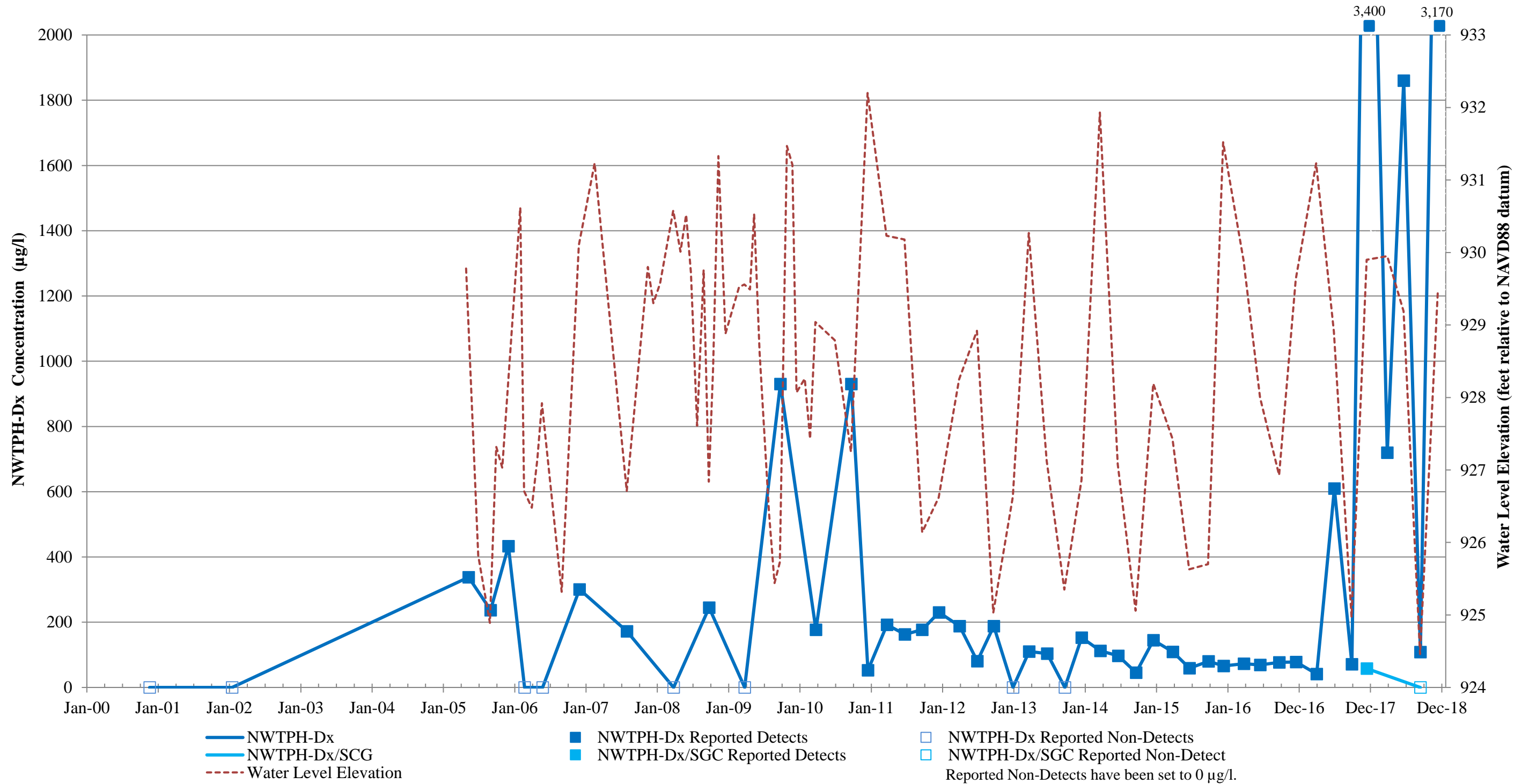


Former Maloney Creek Zone Monitoring Wells

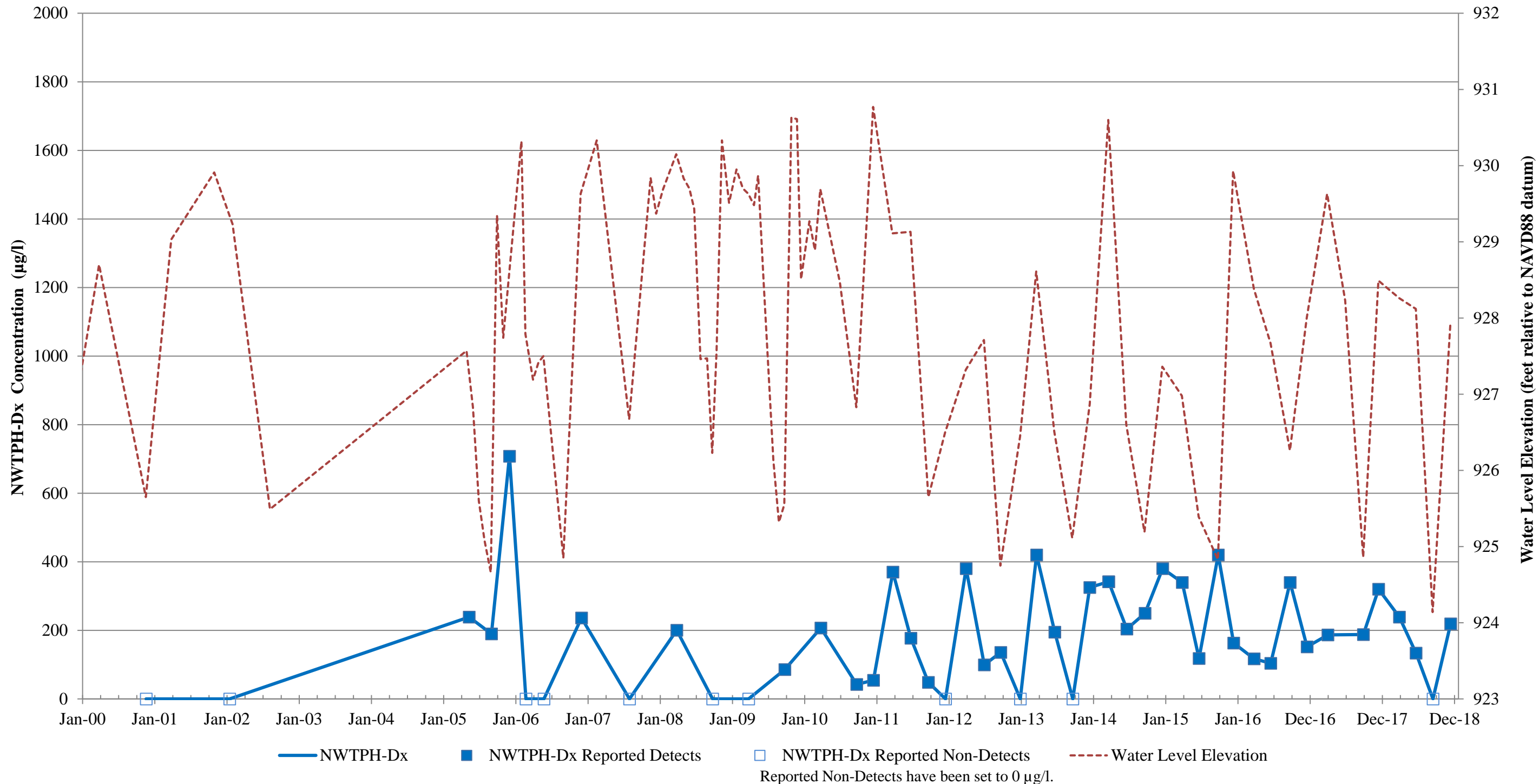
Note: Former Maloney Creek Zone monitoring wells are located within the railyard and NWTPH-Dx groundwater results from these wells have no NWTPH-Dx target.

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well MW-3

NWTPH-Dx concentrations exceeding the plot scale are shown above the plot area with the associated reported concentration value.

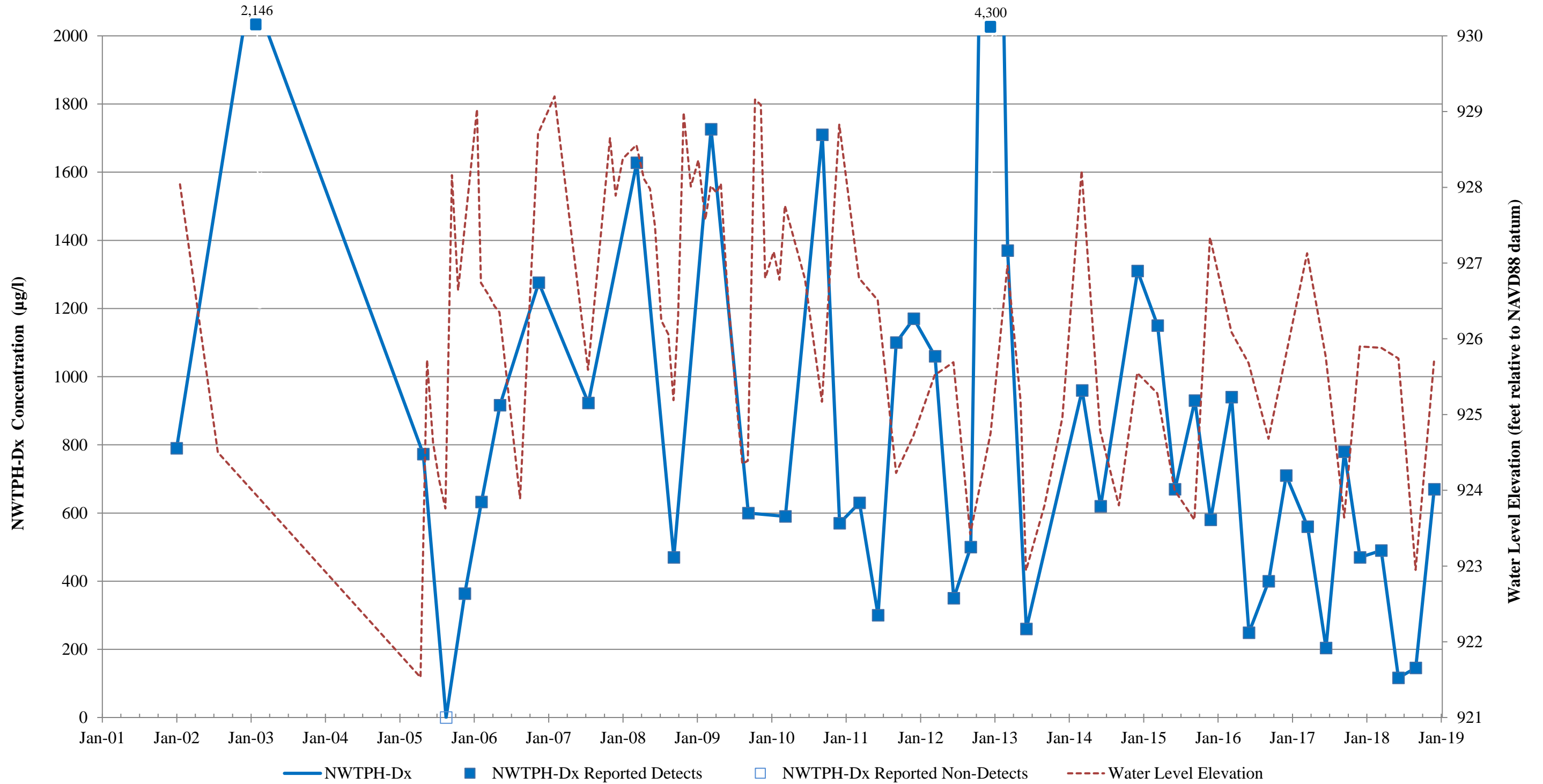


NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well MW-4

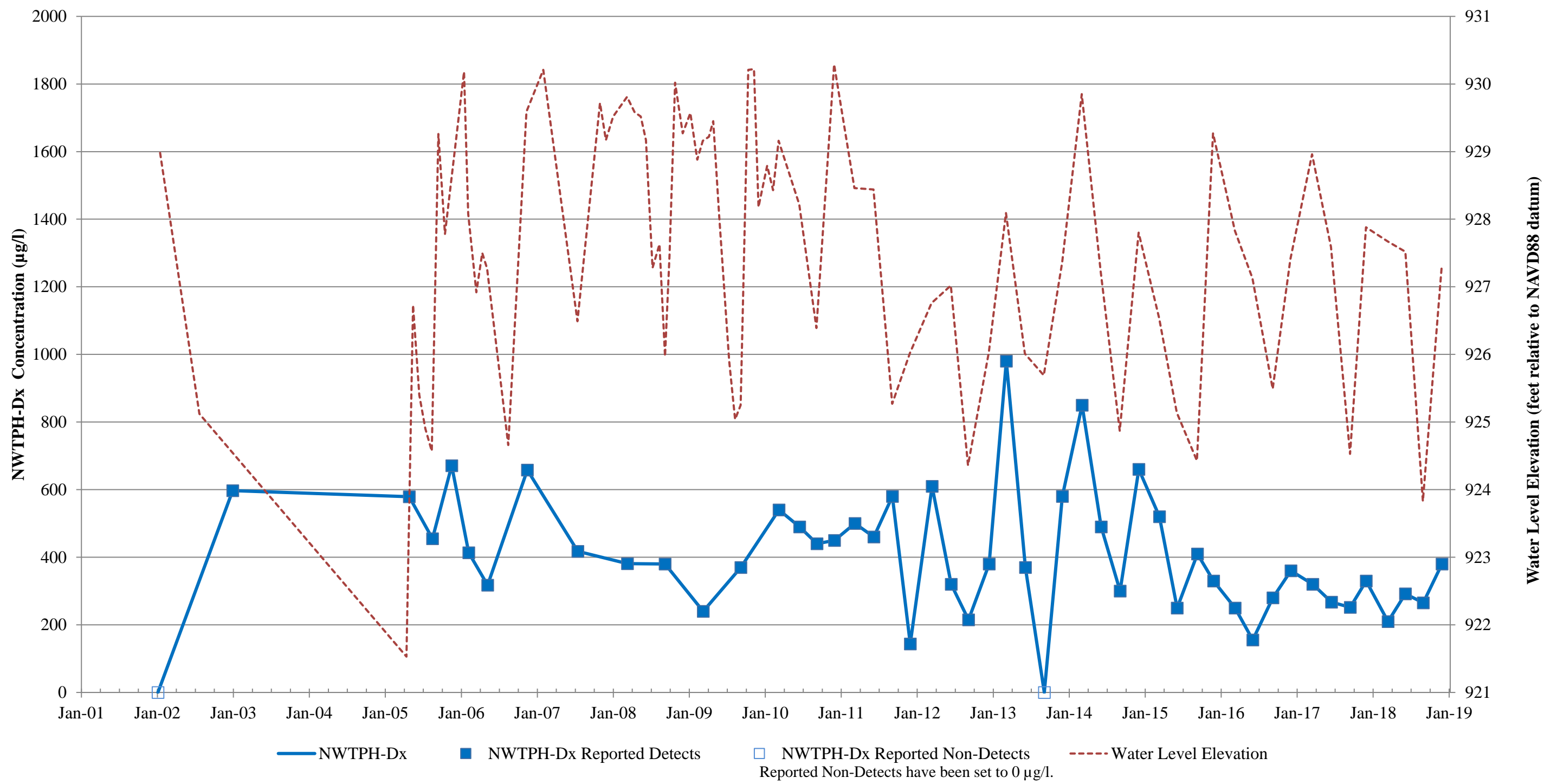


NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 2A-W-9

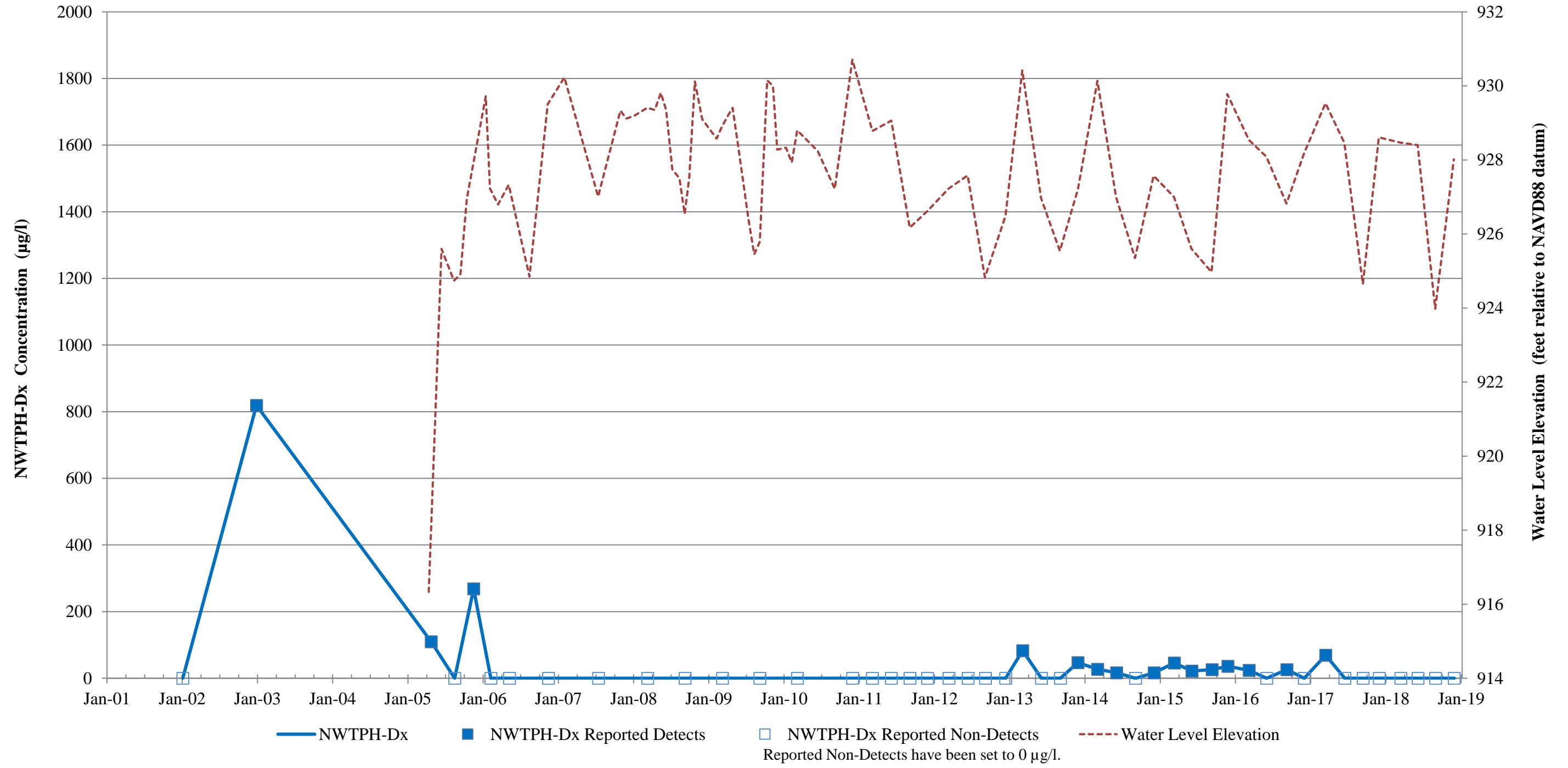
NWTPH-Dx concentrations exceeding the plot scale are shown above the plot area with the associated reported concentration value.



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 2A-W-10



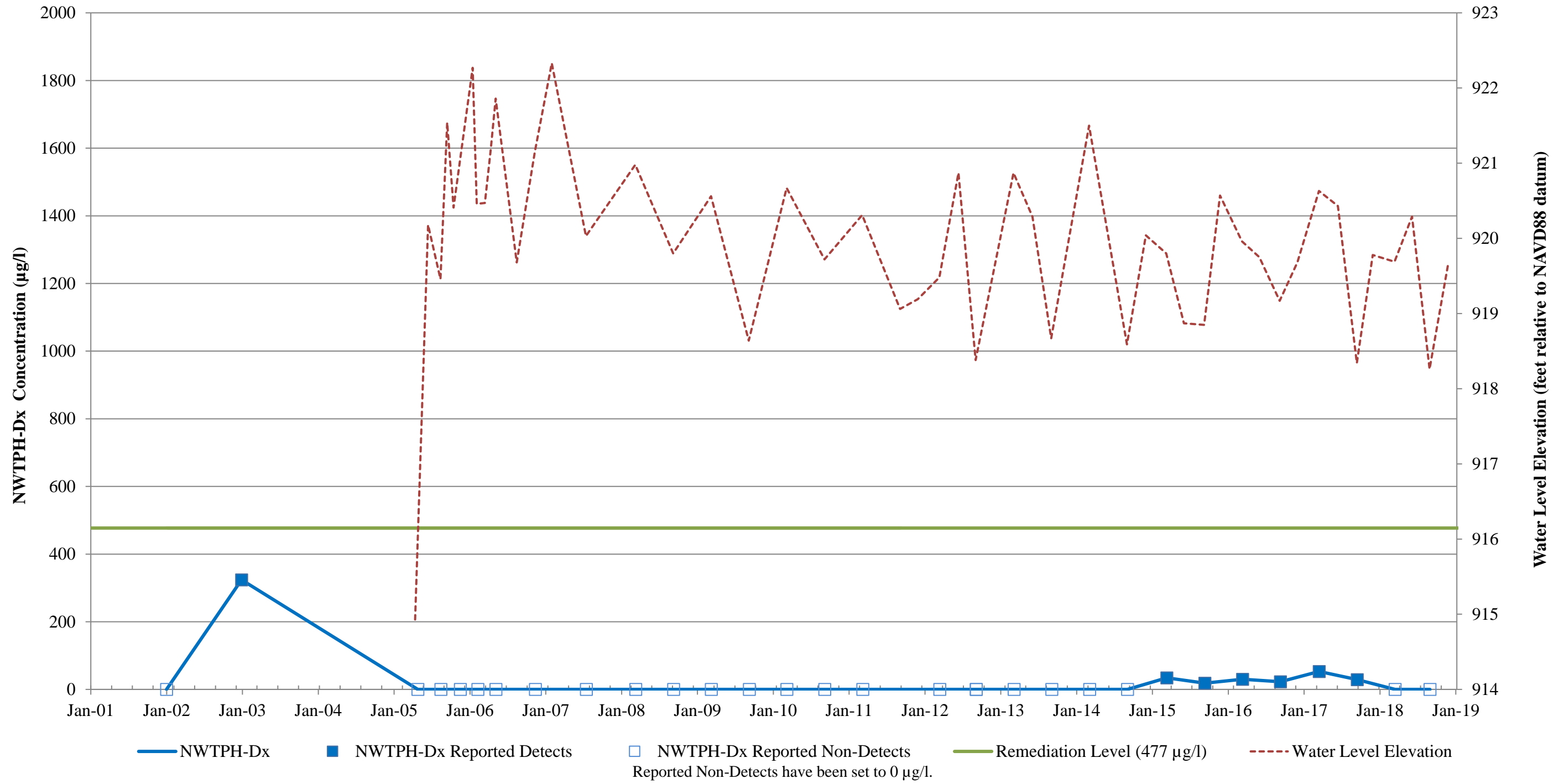
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 2B-W-4



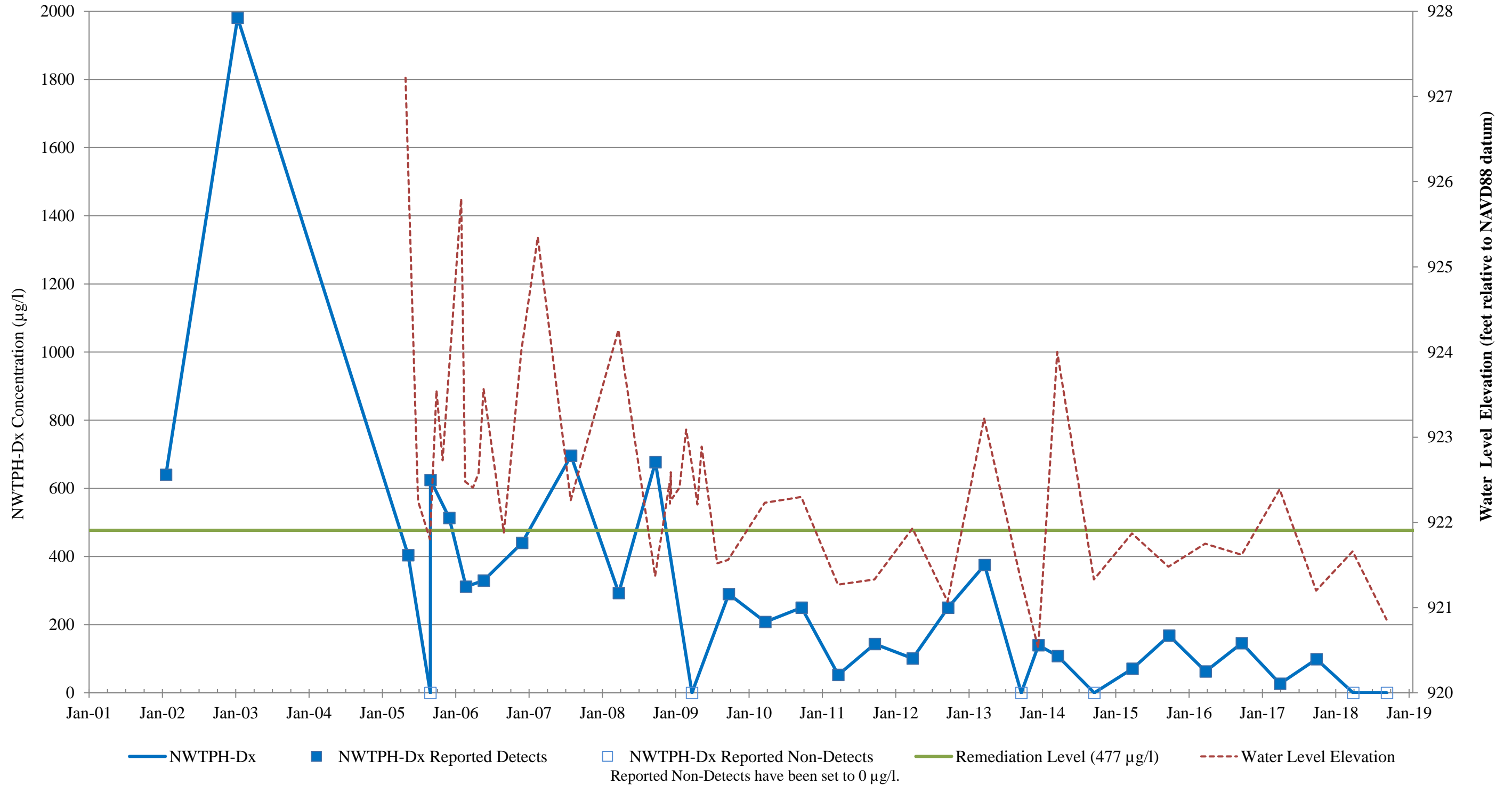
Site-Wide Monitoring Wells

Note: Groundwater NWTPH-Dx results from site-wide monitoring wells located north of the railyard (downgradient) are compared to the RL of 477 micrograms per liter; groundwater NWTPH-Dx results from monitoring wells located within the railyard have no NWTPH-Dx target.

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 1A-W-4

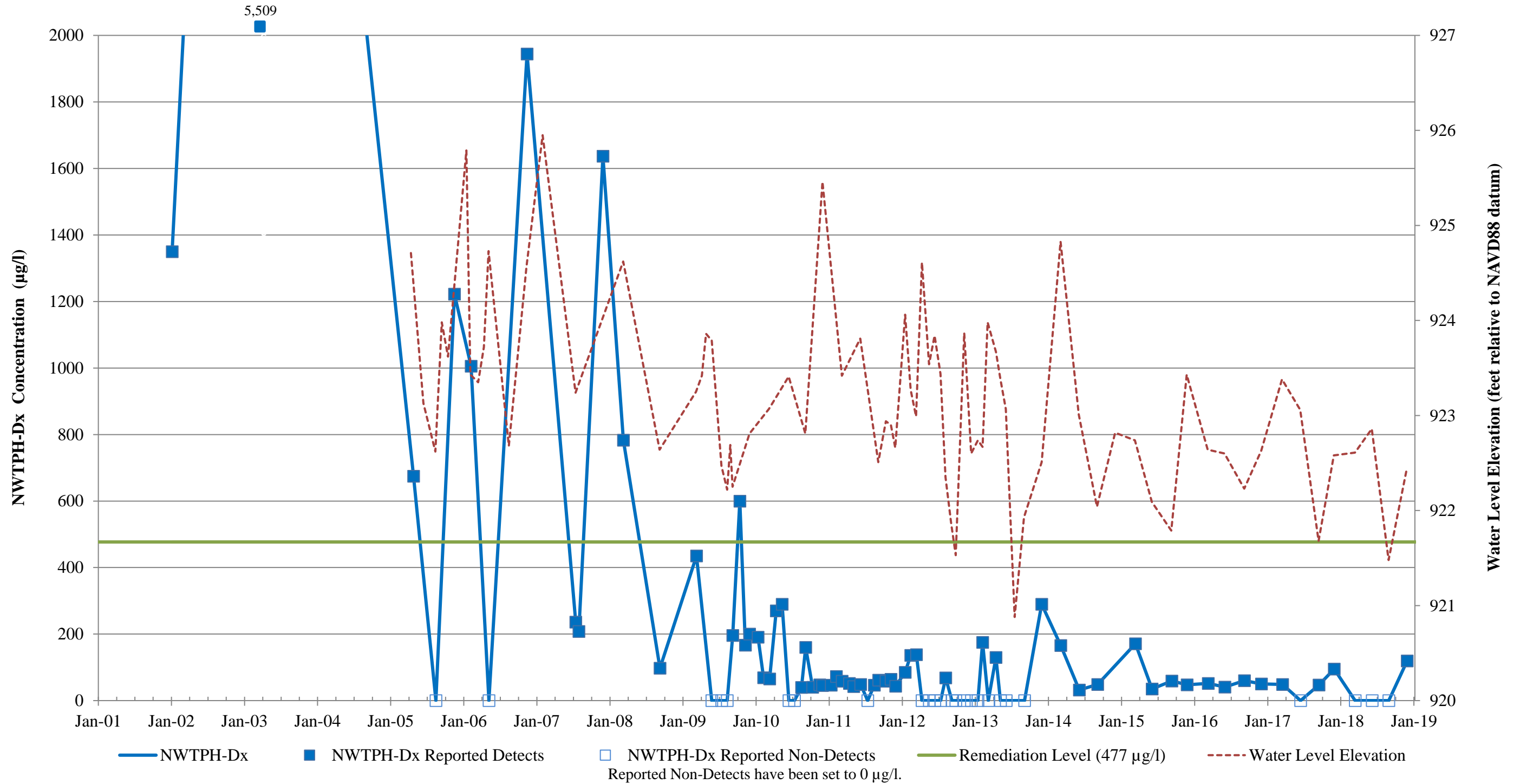


NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 1B-W-2

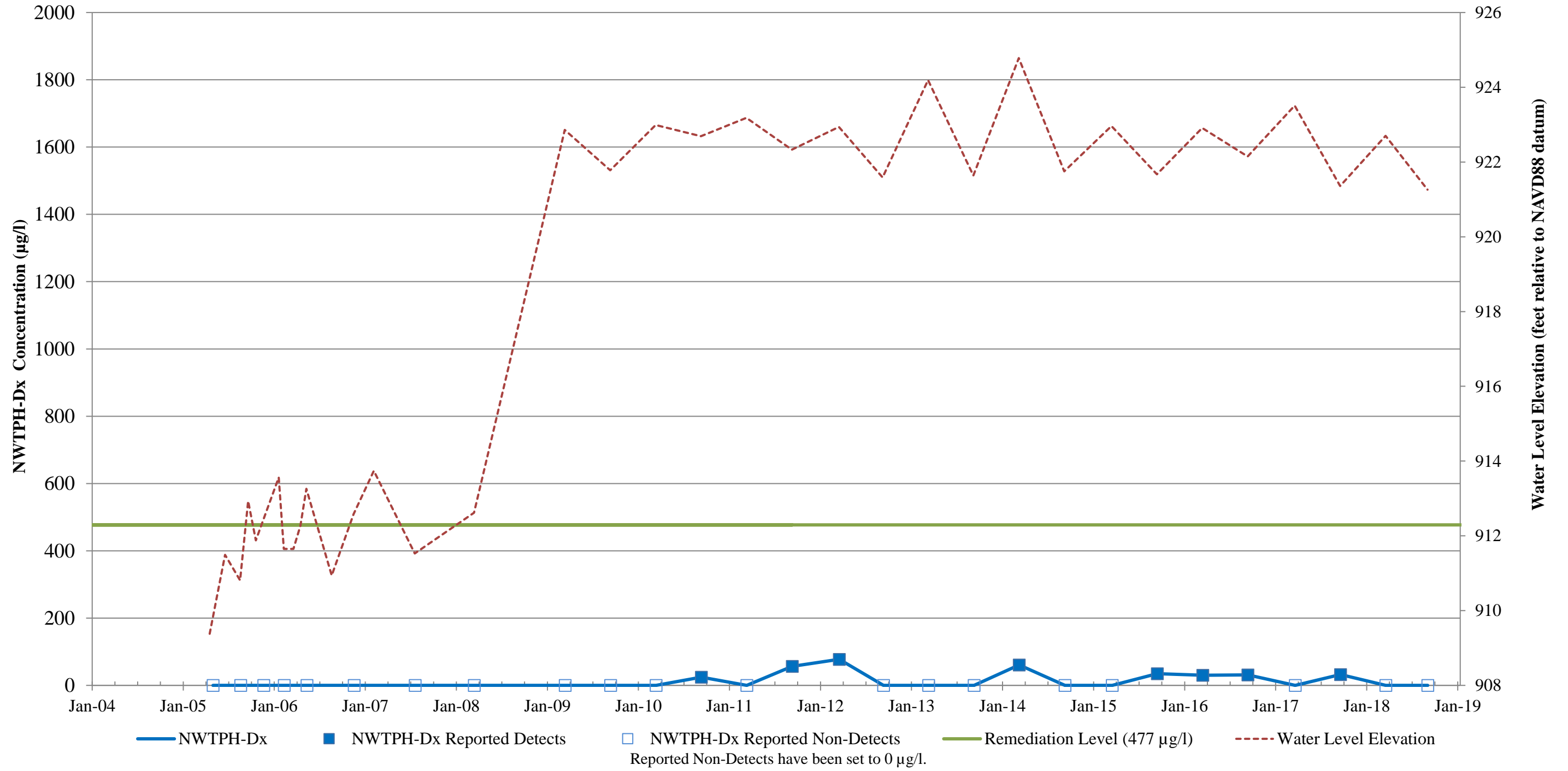


NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 1C-W-1

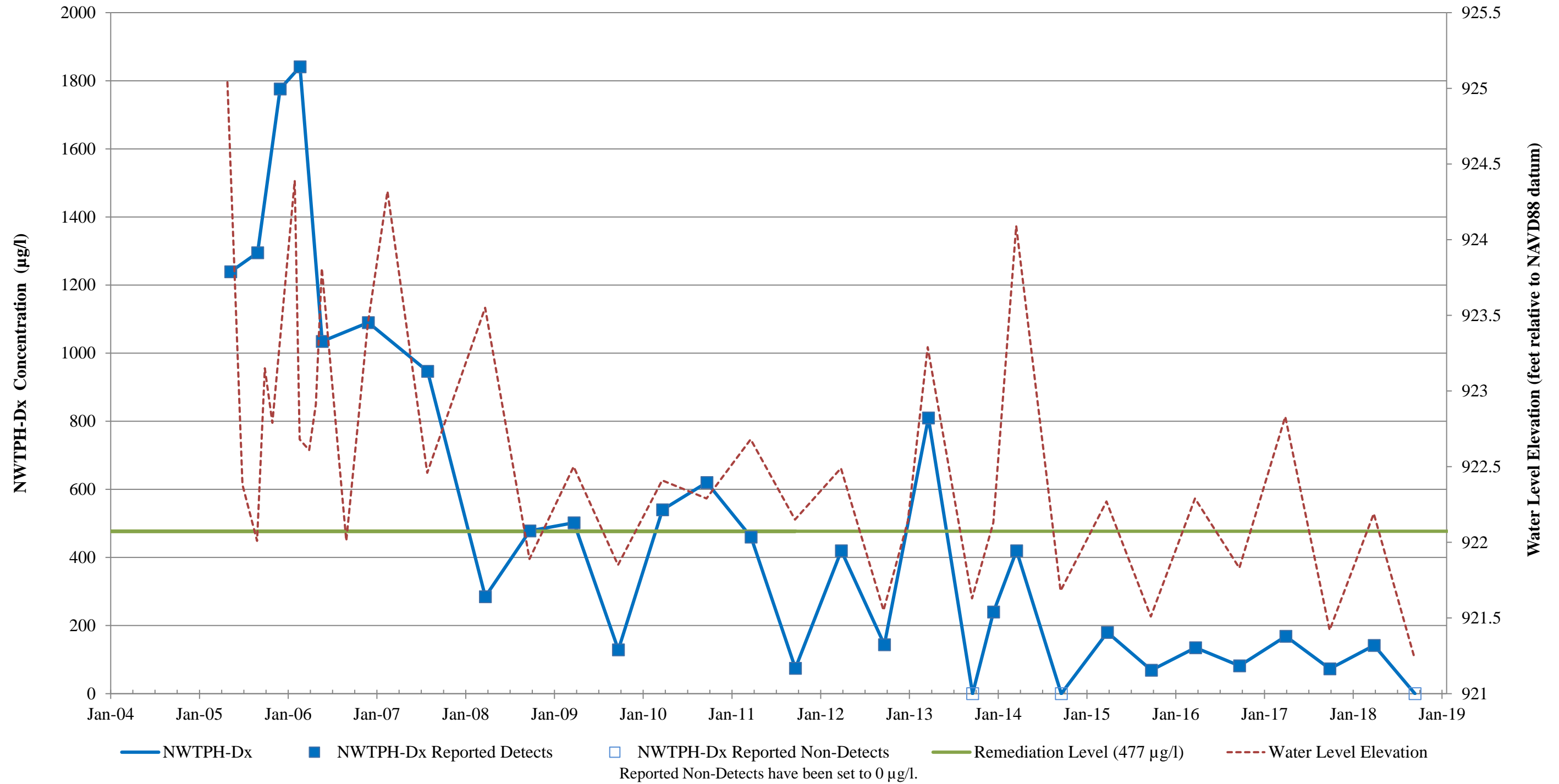
NWTPH-Dx concentrations exceeding the plot scale are shown above the plot area with the associated reported concentration value.



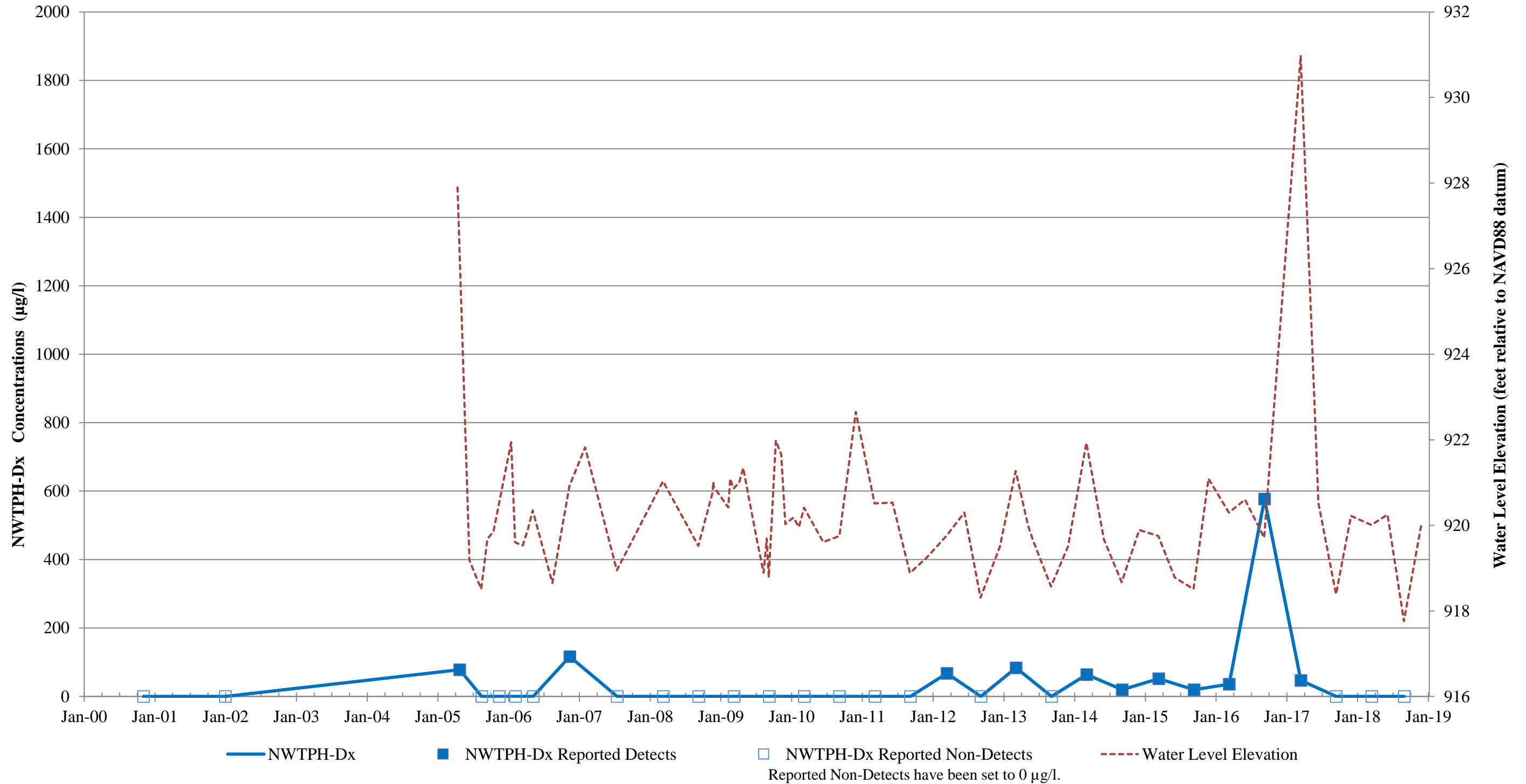
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 1C-W-3



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well 1C-W-4



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well MW-16



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-067
Well MW-38R

