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2014 SITE-WIDE GROUNDWATER MONITORING REPORT

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

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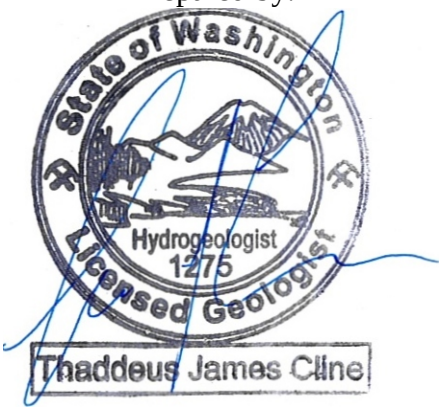

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1.0 INTRODUCTION

This 2014 Groundwater Monitoring Report was prepared on behalf of BNSF Railway Company (BNSF) and describes the 2014 groundwater monitoring activities performed at the BNSF Former Maintenance and Fueling Facility in Skykomish, Washington (herein referred to as the Site). Groundwater monitoring is being conducted as part of the Site remediation activities being completed in accordance with the *Cleanup Action Plan for BNSF Former Maintenance and Fueling Facility, Skykomish, Washington* dated October 2007, prepared by the Washington State Department of Ecology (Ecology) (2007a) (CAP). The groundwater monitoring activities completed at the Site in 2014 were conducted by BNSF pursuant to Consent Decree No. 07-2-33672-9 SEA between BNSF and Ecology (2007b) (Consent Decree) and are part of an integrated and comprehensive remedial action being performed at the Site. Groundwater monitoring activities were performed in accordance with the 2010 Groundwater Monitoring Plan, Appendix E of the 2010 Compliance Monitoring Plan Update (AECOM Environment [AECOM] 2010a) (2010 GWMP).

This document summarizes the groundwater monitoring completed at the Site during 2014 (Reporting Period) and includes:

- Semiannual Site-wide monitoring events completed in March and September 2014;
- Quarterly monitoring events conducted in June and December 2014; and
- Monthly monitoring of the air sparging system wells from January through June 2014.

1.1 GROUNDWATER MONITORING OBJECTIVES

The objectives for the groundwater monitoring program described in the 2010 GWMP are to:

- Monitor any changes in contaminant distribution during and after implementation of cleanup actions throughout the Site;
- Provide monitoring data for groundwater in the Levee Zone to assess the effect of the cleanup actions on groundwater quality;
- Provide monitoring data to evaluate 2008 through 2014 remediation impacts on groundwater quality; and
- Provide fluid level gauging data to assess groundwater gradients and the extent of light non-aqueous-phase liquid (LNAPL) on the groundwater surface.

1.2 SITE DESCRIPTION

The Site includes BNSF property and public and private properties within the Town of Skykomish in King County, Washington, and encompasses an area of about 40 acres. The Site is approximately bounded by the South Fork Skykomish River to the north, Town of Skykomish

city limits to the east, Old Cascade Highway to the south, and Maloney Creek to the west. Railroad Avenue separates BNSF property from the main commercial district of the Town of Skykomish.

Additional Site history and background information was presented in the Consent Decree, CAP, and in Supplemental Remedial Investigation Volume 1: Text, Tables, Figures, and Appendices A through D (The RETEC Group, Inc. [RETEC] 2002b).

1.3 REPORT ORGANIZATION

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

- **Section 2—Groundwater Monitoring Network**. This section describes the monitoring well network and changes made to the network during the Reporting Period.
- **Section 3—Sampling, Analysis, and Reporting**. This section describes the procedures and protocols used to perform the monitoring activities, laboratory analyses and reporting, and subsequent data management and validation activities.
- **Section 4—Results and Discussion**. This section describes the results of the 2014 monitoring activities; specifically the fluid level gauging and analytical results from the groundwater sampling.
- **Section 5—Conclusions**. This section provides an overview of the groundwater monitoring activities conducted at the Site during the Reporting Period, and includes a summary of the data trends, and recommendations for future sampling events.
- **Section 6—Bibliography**. This section includes a listing of the documents cited in this report and other relevant documents providing additional background information.

2.0 GROUNDWATER MONITORING NETWORK

This section describes the wells, piezometers, and vaults that were included in the groundwater monitoring network for fluid level gauging and groundwater sampling during the Reporting Period. The wells, piezometers, and vaults sampled and the frequency of the sampling were defined in the 2010 GWMP. Groundwater monitoring locations are shown on Figure 1.

2.1 MODIFICATIONS TO THE MONITORING NETWORK

This section describes monitoring network changes implemented during the Reporting Period, including well refurbishment, well damage, and well abandonment. Modifications to the groundwater monitoring network are summarized in Table 1. Modification plans and construction and/or abandonment details prior to the Reporting Period were presented in previous Site documents. During the Reporting Period, one modification occurred to the monitoring network. Monitoring well 5-W-43 at the Site that had been inadvertently covered during grading activities and was relocated and returned to service for the four monitoring events conducted during 2014.

Monitoring wells 1B-W-3, 1C-W-7, and 1C-W-8 were monitored on a monthly basis from January through June 2014 to assess groundwater quality at and down-gradient of the air sparge system operating area at the Site. With concurrence from Ecology, beginning in July 2014, the frequency of monitoring at these three well locations at the Site was revised to include sampling during the quarterly and semiannual monitoring events.

2.2 SUMMARY OF GROUNDWATER MONITORING NETWORK

The current network of wells and piezometers at the Site is shown on Figure 1. Figure 1 includes only those wells and piezometers used in the monitoring network.

Table 2 summarizes monitoring activities during the Reporting Period and corresponding event dates. Tables 3 and 4 present additional details regarding the sampling and gauging frequencies of wells and vaults used in the groundwater monitoring network.

The conditional points of compliance (CPOCs) for groundwater are generally described in Section 3.4 and on Figure 6 of the CAP. The monitoring network was partially established before the CAP was issued by Ecology in October 2007. However, all wells in the network are within the area bounded by the CPOC well locations, and the locations and designations of compliance wells were approved by Ecology in the 2010 Compliance Monitoring Plan Update (AECOM 2010a). Point of compliance wells will be defined in a Long-Term Confirmational Monitoring Plan to be developed at the conclusion of active remediation pursuant to Exhibit C of the Consent Decree.

3.0 SAMPLING, ANALYSIS, AND REPORTING

This section summarizes the groundwater monitoring program sampling methods, laboratory analysis and reporting procedures, and data management and validation protocols. Groundwater samples collected during the Reporting Period were analyzed by TestAmerica Laboratories, Inc. in Tacoma, Washington (TestAmerica) for all sampling events.

3.1 SAMPLING METHODS

The sampling methodology used to gauge fluid levels and collect groundwater samples was described in the 2010 GWMP. The procedures were established for gauging and sampling monitoring wells, although these procedures apply also to the piezometer and vault locations.

3.2 ANALYTICAL METHODS

The groundwater samples were analyzed for total petroleum hydrocarbons as diesel-range organics (DRO) and as oil-range organics (ORO) by Northwest Method NWTPH-Dx (herein referred to cumulatively as NWTPH-Dx). The analytical laboratory reported detected sample concentrations relative to the method detection limit (MDL) rather than the method reporting limit (MRL), which usually is higher. Because analyte concentrations detected exceeding the MDL and less than the MRL have a degree of uncertainty, these results were considered to be estimated values, and were qualified with a J-flag as indicating that the reported value is an estimate. Using the MDL to report results was intended to minimize the occurrence of non-detected results with an MRL greater than the cleanup level.

3.3 DATA MANAGEMENT AND VALIDATION

The analytical laboratory provided both text data reports (Appendix A) and electronic data deliverables that were directly imported into the project environmental data management system. A quality control check was performed on the imported data to ensure that it was accurately uploaded and that transfer errors did not occur.

Each laboratory analytical report included copies of the Chain of Custody forms and a case narrative containing the following information: a description of the case, comments on sample condition upon receipt, and a description of sample preparation and analysis. The following data were included in the data report: MDL, MRL, units of measure, dilution factor, batch number, date received, date prepared, date analyzed, analytical method, and any notes or qualifiers. The report also contained the details and results of laboratory quality assurance/quality control procedures that were performed on the samples. Analytical data were checked for completeness by a Farallon Project Scientist and data were then independently validated by Sayler Data Solutions, Inc. of Bothell, Washington.

Sayler Data Solutions, Inc. evaluated the groundwater data to assess whether the analytical results met the quality control/validation standards described in the 2010 GWMP. These metrics included precision, accuracy, method compliance, and completeness of the data set. Validation results were then used to evaluate whether the data were suitable for their intended use.

Data validation procedures, criteria, and findings are provided in Appendix B. Procedures used in the data validation are based on U.S. Environmental Protection Agency (EPA) (2008) guidelines for organic methods data review.

4.0 RESULTS AND DISCUSSION

This section presents a summary and evaluation of results from the groundwater monitoring during the Reporting Period.

4.1 GROUNDWATER LEVELS

Table 4 summarizes the frequency of groundwater level elevation gauging at Site locations. With the exception of monitoring wells associated with the HCC system, locations are gauged on a quarterly schedule, with additional locations gauged during the semiannual monitoring events in March and September. Table 5 presents the groundwater elevation and LNAPL thickness measurements obtained during the Reporting Period. Groundwater flow direction, variations in groundwater elevations and LNAPL thickness, and changes in groundwater gradients in relation to seasonal variations and remediation activities are discussed below.

Quarterly and semiannual groundwater surface elevation maps for the Reporting Period are shown on Figures 2 through 5. As shown on these figures, the groundwater flow direction is generally consistent, given seasonal variation and periodic adjustments to pumping rates along the HCC system barrier wall. Groundwater elevations did fluctuate seasonally by approximately 5.5 feet (ranging from 3.52 to 7.63 feet) in piezometers adjacent to and south of the HCC system barrier wall, and by approximately 1.5 (ranging from 0.11 to 3.03) feet adjacent to and north of the HCC system barrier wall, with some influence imparted by HCC system pumping rates. The difference in groundwater elevations from north to south across the central part of the HCC system barrier wall varied between approximately 5.4 feet in March 2014 and approximately 2.1 feet in September 2014 as measured in piezometers. Flow in this area is influenced by seasonal variations and HCC pumping system rates. South of the HCC system barrier wall, groundwater flow is predominantly toward the northwest or west. North of the HCC system barrier wall, groundwater typically flows to the northwest in the direction of the Skykomish River. The HCC system barrier wall acts as a barrier to groundwater flow and accentuates a westerly component to groundwater flow in the area of the HCC system barrier wall. Localized groundwater depressions are present near the HCC system barrier wall gates due to the variance in groundwater elevations between the up- and down-gradient sides of the HCC barrier wall and pumping of recovery wells on the up-gradient side of the HCC system barrier wall.

Groundwater surface elevation maps continue to show that groundwater elevations are lower in the Levee Zone due in part to the presence of impermeable liner/barrier systems along the up-gradient boundaries (south and east) of the prior Levee Zone excavations in 2006 and subsequently in 2010 and 2013. The extent of the original liner/barrier system is described in the *Levee Zone Interim Action for Cleanup - 2007 As-Built Completion Report, Former Maintenance and Fueling Facility – Skykomish, Washington* dated August 2007, prepared by ENSR (2007). Excavation at the Skykomish School in June, July, and August 2013 occurred in the area of the underground liner which was replaced along the eastern and southern extents of the 2013

excavation. The Skykomish School excavation work is described in the 2013 As-Built Completion Report prepared by Farallon (2014a).

4.2 FIELD PARAMETERS

Table 6 presents the stabilized field parameter measurements collected during the monthly, quarterly, and semiannual groundwater sampling events from each of the wells that did not contain LNAPL. Each field parameter is discussed separately below.

4.2.1 pH

The average pH of groundwater across the Site during the Reporting Period was 6.07. The minimum pH was 4.97 at monitoring well 5-W-43 and the maximum pH was 7.24 at monitoring well 5-W-15, both during the September 2014 event. The average, minimum, and maximum pH measurements were consistent with past measurements at the Site.

4.2.2 Temperature

The average temperature of groundwater during the Reporting Period was 10.47 degrees Celsius (°C). The minimum temperature was 4.76°C at monitoring well 5-W-50 during the March 2014 event, and the maximum temperature was 19.09°C at monitoring well GW-1 during the September 2014 event. The groundwater temperatures recorded varied seasonally consistent with prior monitoring events at the Site.

4.2.3 Dissolved Oxygen

The average dissolved oxygen (DO) concentration in groundwater across the Site during the Reporting Period was 2.71 milligrams per liter (mg/l). DO levels ranged from a minimum of 0.089 mg/l at monitoring well EW-1 during the September 2014 event to a maximum of 9.42 mg/l measured at monitoring well IB-W-23 during the December 2014 event. In general, monitoring wells with no detected petroleum hydrocarbon compounds exhibited higher concentrations of DO than monitoring wells with detected petroleum hydrocarbon compounds, indicating that some biodegradation is occurring. These measurements are consistent with historical values.

4.2.4 Oxidation-Reduction Potential

The average oxidation-reduction potential (ORP) in groundwater across the Site during the Reporting Period was 146.3 millivolts (mV). The minimum ORP value was -213.5 mV at monitoring well 5-W-50 during the September 2014 event and the maximum was 962.5 mV at monitoring well 5-W-19 during the December 2014 event. ORP in groundwater at the Site is most-commonly positive. A positive ORP and DO in excess of approximately 1 mg/l indicates that conditions are conducive to aerobic degradation of petroleum hydrocarbons. These measurements were consistent with historical values, with the exception of the maximum ORP value of 962.5 mV which is almost twice the highest recorded value at the Site since 2010.

4.2.5 Turbidity

The mean turbidity value in groundwater across the Site during the Reporting Period was 14.4 nephelometric turbidity units (NTU). Turbidity values ranged from 0 NTU at 25 monitoring wells in 2014, to a maximum of 63.4 NTU measured at monitoring well 5-W-56 during the March 2014 event. Approximately 94 percent of the turbidity measurements during this reporting period were below 25 NTU. In the previous groundwater monitoring report, approximately 88 percent of the turbidity measurements were below 25 NTU. As noted in the two groundwater monitoring reports prepared prior to the 2014 Reporting Period, about 90 percent of the turbidity measurements were below 10 NTU.

4.3 NWTPH-DX

4.3.1 Applicable Groundwater Cleanup and Remediation Levels

The groundwater cleanup level (CUL) for TPH measured using NWTPH-Dx is 208 micrograms per liter (µg/l) and the remediation level (RL) is 477 µg/l as specified in Section 3.4 and Table 1 of the CAP. The CAP anticipates that CULs will be attained at the CPOC following implementation of all cleanup actions specified in the CAP. The approximate CPOC boundary is shown on Figure 6 of the CAP. As described in the CAP, the CUL for petroleum hydrocarbons in groundwater is intended to protect sediments from recontamination by groundwater (e.g., near the South Fork Skykomish River and Former Maloney Creek) and the RL for petroleum hydrocarbons in groundwater is intended to be protective of drinking water resources.

4.3.2 Analytical Results

Petroleum hydrocarbon concentrations in groundwater were analyzed using Northwest Method NWTPH-Dx with no silica gel cleanup. DRO and ORO hydrocarbon fractions were added together to calculate a total NWTPH-Dx petroleum hydrocarbon concentration. If both DRO and ORO fractions were detected, NWTPH-Dx was calculated to be the sum of both detected concentrations. If either the DRO or the ORO fractions were not detected at or above the MDL, half of the MDL value was used to represent the non-detected component in the NWTPH-Dx summation which was then denoted as detected. If both components were not detected at or above the MDL, half of the MDL value of both components was added to represent the NWTPH-Dx reporting value that was then denoted as not detected. Table 7 shows NWTPH-Dx results and the calculated NWTPH-Dx concentrations. Figures 6 through 9 depict the groundwater NWTPH-Dx concentrations on Site plan maps for the two quarterly and the two semiannual monitoring events conducted during the Reporting Period, and also show the estimated extent of LNAPL present at the Site.

Site-wide groundwater sampling was conducted on a semiannual schedule (March and September). In addition, select wells down-gradient of the HCC system, adjacent to the Former Maloney Creek Zone-East Wetland, the Levee Zone, and the HCC system gate and end wells were sampled on a quarterly schedule (June and December in addition to the semiannual monitoring in March and September). Air sparging system wells were monitored and sampled on a monthly schedule through June 2014 and on a quarterly basis thereafter.

Provided in the following sections is a discussion of the results of the semiannual Site-wide events (March and September 2014). Subsequent discussions pertain to results of more frequent monitoring events. Trend plots showing historical NWTPH-Dx groundwater monitoring results for the monitoring wells included in the current monitoring well network are provided in Appendix C.

4.3.3 Results from Semiannual Site-Wide Groundwater Monitoring Events

A total of 56 monitoring locations were used for groundwater sampling during the March and September 2014 semiannual groundwater monitoring events (Table 3). In general, groundwater samples were not collected if monitoring wells contained LNAPL or traces of LNAPL.

Monitoring well 5-W-51 was planned for semiannual groundwater sampling but was not sampled during the Reporting Period because it contained traces of LNAPL during both semiannual monitoring events. LNAPL has historically been measured in monitoring well 5-W-51 with the highest accumulations noted during elevated groundwater conditions in March and smallest accumulation during low groundwater conditions in September. During the prior 2013 reporting period, LNAPL accumulations were measured in monitoring well 5-W-51 with thicknesses measured at 0.80 inch and 0.02 inch for the March and September 2013 monitoring events, respectively. Monitoring well 2A-W-9 was planned for quarterly and semiannual groundwater sampling during the Reporting Period but was inadvertently omitted during the September semiannual monitoring event. Monitoring well 2A-W-9 was noted to contain a light trace of LNAPL during the June monitoring event.

The Site-wide discussion below pertains to data collected during the March and September 2014 semiannual groundwater monitoring events at all sampled locations, with the exception of the air sparging system monitoring wells and the HCC system monitoring wells which are discussed separately below in Sections 4.3.4 and 4.3.5, respectively. NWTPH-Dx results from the March and September 2014 semiannual monitoring events are shown on Figures 6 and 8 as NWTPH-Dx, and the analytical results are presented in Table 7.

4.3.3.1 March 2014

The March 2014 semiannual groundwater monitoring event occurred from March 17 through 20, 2014. Groundwater samples were collected from 26 monitoring wells at the Site (not including air sparging area and HCC system wells) during this Reporting Period. NWTPH-Dx was detected in 22 of the 26 groundwater samples collected during the March 2014 monitoring event. Detected NWTPH-Dx concentrations ranged from 16.9 to 3,500 µg/l, five of which exceeded the RL of 477 µg/l.

In March 2014, NWTPH-Dx RL exceedances occurred in groundwater samples collected from monitoring wells 5-W-15, 5-W-50, 5-W-56, 2A-W-9, and 2A-W-10. The RL exceedances in groundwater samples collected from monitoring well 5-W-15 in 6th Street and in monitoring wells 5-W-50 and 5-W-56 at the Skykomish School occurred at locations proximate to a residual LNAPL plume at the Skykomish School. NWTPH-Dx

was detected at a concentration of 680 µg/l in the groundwater sample collected from monitoring well 5-W-15. NWTPH-Dx was detected at a concentration of 830 µg/l during the prior March 2013 monitoring event with detected concentrations ranging between 350 and 830 µg/l in groundwater samples collected from monitoring well 5-W-15 during the prior 2013 reporting period. LNAPL accumulations have not been observed in monitoring well 5-W-15. NWTPH-Dx was detected at a concentration of 1,150 µg/l in the groundwater sample collected from monitoring well 5-W-50 in March 2014. NWTPH-Dx was detected at a concentration of 1,960 µg/l during the March 2013 event with concentrations ranging between 1,960 and 2,260 µg/l in groundwater samples collected from monitoring well 5-W-50 during the prior 2013 reporting period. LNAPL accumulations have not been observed in monitoring well 5-W-50. NWTPH-Dx was detected at a concentration of 3,500 µg/l in the groundwater sample collected from monitoring well 5-W-56 in March 2014. NWTPH-Dx was not detected at concentrations at or exceeding the MDLs during the March 2013 event, but was detected at a concentration of 2,620 µg/l in the groundwater sample collected from monitoring well 5-W-56 during September 2013. LNAPL accumulations have not been observed in monitoring well 5-W-56. During the March 2014 monitoring event, a light trace of LNAPL was observed in monitoring well 5-W-51, approximately 80 feet south of monitoring wells 5-W-15 and 5-W-50. During the prior 2013 reporting period, RL exceedances also occurred during the March semiannual monitoring event in the vicinity of the Skykomish School (monitoring wells 5-W-15 and 5-W-50).

NWTPH-Dx RL exceedances occurred in groundwater samples collected from monitoring wells 2A-W-9 and 2A-W-10 in the railyard near a former LNAPL area during March 2014. During the March 2014 monitoring event, NWTPH-Dx was detected at a concentration of 960 µg/l in the groundwater sample collected from monitoring well 2A-W-9. NWTPH-Dx was detected at a concentration of 1,370 µg/l during the March 2013 event with concentrations ranging between 260 and 1,370 µg/l in groundwater samples collected from monitoring well 2A-W-9 during the prior 2013 reporting period. NWTPH-Dx was detected at a concentration of 850 µg/l in the groundwater sample collected from monitoring well 2A-W-10 in March 2014. NWTPH-Dx was calculated to be 980 µg/l during the March 2013 event with concentrations ranging from not detected at or exceeding the MDLs to 980 µg/l in groundwater samples collected from monitoring well 2A-W-10 during the prior 2013 reporting period.

As discussed below in Section 4.3.6, during the March 2014 groundwater monitoring event, groundwater samples were collected from Levee Zone monitoring wells 5-W-14 through 5-W-19. With the exception of monitoring well 5-W-15 discussed above, NWTPH-Dx was not detected at concentrations exceeding the RL in the Levee Zone monitoring wells during the March 2014 monitoring event. NWTPH-Dx was not detected in monitoring wells 5-W-14 and 5-W-19 during the March 2014 groundwater monitoring event.

4.3.3.2 September 2014

The September 2014 semiannual groundwater monitoring event occurred from September 15 through 18, 2014. Groundwater samples were collected from 25 monitoring wells at the Site (not including air sparging area and HCC system wells) during this Reporting Period. As noted previously, monitoring well 2A-W-9 was gauged but was inadvertently omitted during sampling for the September 2014 monitoring event. NWTPH-Dx was detected in 12 of the 25 groundwater samples collected during September 2014 monitoring as discussed below.

In September 2014, NWTPH-Dx detections and RL exceedances occurred in groundwater samples collected from monitoring wells 5-W-15, 5-W-50, and 5-W-56 in the vicinity of the Skykomish School. NWTPH-Dx was detected at a concentration of 590 µg/l in the groundwater sample collected from monitoring well 5-W-15. NWTPH-Dx was detected at a concentration of 1,720 µg/l in the groundwater sample collected from monitoring well 5-W-50. NWTPH-Dx was detected at a concentration of 2,260 µg/l during the September 2013 event with concentrations of 1,960 and 2,260 µg/l in groundwater samples collected from monitoring well 5-W-50 during the prior 2013 reporting period. NWTPH-Dx was detected at a concentration of 2,210 µg/l in the groundwater sample collected from monitoring well 5-W-56 in September 2014. NWTPH-Dx was detected at a concentration of 2,620 µg/l during the September 2013 monitoring event at this location. Monitoring wells 5-W-50 and 5-W-56 are proximate to a residual LNAPL plume. During this monitoring event, a heavy trace of LNAPL was noted approximately 80 feet south and southeast of monitoring wells 5-W-50 and 5-W-56 in monitoring well 5-W-51. During the prior 2013 reporting period, RL exceedances also occurred in groundwater samples collected during the September semiannual monitoring event in the vicinity of the Skykomish School (monitoring wells 5-W-50 and 5-W-56).

4.3.4 Air Sparging System Monitoring

With Ecology concurrence, operation of the air sparging system was discontinued in May 2013 with air sparge area groundwater monitoring continuing on a monthly schedule. Groundwater samples were collected from air sparging system monitoring wells 1B-W-3, 1C-W-7, and 1C-W-8 on a monthly basis through June 2014. Based on the results of the groundwater monitoring conducted through June 2014, the three air sparge area monitoring wells were transitioned to a quarterly monitoring schedule beginning with the semiannual groundwater monitoring event in September 2014.

NWTPH-Dx results from the monitoring events in the air sparge area are shown on Figures 6 through 9 (for the quarterly and semiannual sampling events) and in Table 7 (six monthly events and two quarterly events). A total of 24 groundwater samples were collected from the air sparging system monitoring wells during the Reporting Period. NWTPH-Dx was detected in 23 of the 24 groundwater samples. Detected NWTPH-Dx concentrations in the samples down-gradient of the air sparge area (monitoring wells 1C-W-8 and 1B-W-3) ranged from not detected at concentrations at or exceeding the MDLs to 460 µg/l. The calculated NWTPH-Dx

concentrations did not exceed the RL in groundwater samples collected from the air sparge area monitoring wells in the Reporting Period. Groundwater NWTPH-Dx concentrations have not exceeded the RL at monitoring well 1C-W-8 since November 2013, and have been less than the CUL since March 2014. NWTPH-Dx concentrations have been consistently less than the CUL at monitoring well 1B-W-3 since September 2008.

4.3.5 Hydraulic Control and Containment System

The following sections summarize the groundwater analytical results from wells that monitor the HCC system and adjacent areas. Quarterly monitoring was completed during the Reporting Period for the HCC system monitoring wells in the HCC system backfill and down-gradient of the HCC system barrier wall, and for the HCC system end and gate monitoring wells. NWTPH-Dx groundwater samples collected from HCC system monitoring wells did not exceed the RL during the Reporting Period. NWTPH-Dx results for groundwater samples collected during the Reporting Period are shown on Figures 6 through 9 and in Table 7. The results from the HCC system well monitoring events are described and evaluated further in the 2014 Annual Hydraulic Control and Containment System Operations Report being prepared by Farallon (2015c).

4.3.5.1 Backfill and Down-gradient of the HCC

Groundwater samples were collected quarterly from groundwater monitoring wells within the backfill placed during the HCC system barrier wall construction and down-gradient of the HCC system barrier wall at monitoring wells 1B-W-23, 1C-W-7, 2A-W-40, 2A-W-41, 2A-W-42, and 5-W-43. An exception to the quarterly sampling frequency was monitoring well 1C-W-7, which was sampled monthly from January through June 2015 then quarterly in September and December 2015 because it is also used to monitor the effectiveness of the air sparging system. A total of 28 groundwater samples were collected throughout the Reporting Period from the six backfill and down-gradient monitoring wells and NWTPH-Dx was detected in 25 of the 28 groundwater samples. Detected calculated NWTPH-Dx concentrations in the groundwater samples ranged from 18 to 310 µg/l. Of the 25 groundwater samples with detected NWTPH-Dx, NWTPH-Dx was not detected at concentrations exceeding the RL. NWTPH-Dx concentrations did not exceed the RL in groundwater samples collected from monitoring well 2A-W-42 during the 2014 monitoring events, and have exceeded the RL only once since January 2009.

4.3.5.2 HCC System Performance

Groundwater samples were collected quarterly throughout the Reporting Period from monitoring wells EW-1 and EW-2A located at the west and east ends of the HCC system barrier wall, respectively. NWTPH-Dx was detected in each of the groundwater samples collected from monitoring well EW-1 on the west end of the HCC system barrier wall at concentrations ranging from 50 to 110 µg/l, and in three of the four groundwater samples collected from monitoring well EW-2A at the east end of the HCC system barrier wall (not detected during the September 2014 monitoring event) at concentrations ranging

from 46 to 112 µg/l. NWTPH-Dx concentrations were consistently less than the CUL in groundwater samples collected from these locations during 2014.

Groundwater samples were collected quarterly during the Reporting Period from gate monitoring wells GW-1 through GW-4. A total of 16 groundwater samples were collected from these four locations during the Reporting Period. NWTPH-Dx was detected in each of the 16 samples. Calculated NWTPH-Dx concentrations were detected at concentrations from 21 to 440 µg/l in these 16 groundwater samples and did not exceed the RL.

Groundwater samples were collected from the gate sentry wells during the semiannual monitoring events in March and September 2014. The sentry wells are intended to enable monitoring of petroleum hydrocarbon concentrations in the reactive material in each gate to evaluate treatment capacity and exhaustion rates. Petroleum hydrocarbon constituents in groundwater at these locations are removed by the reactive media. Therefore, these results are not representative of Site groundwater conditions, and are not evaluated in this report. The groundwater results for the semiannual events are presented in Table 7 for reference.

HCC system operations occasionally were interrupted for short periods of time to perform maintenance, change out GAC, optimize system parameters, make repairs, perform pilot testing, or due to power outages. The HCC System was shut down on October 18 and restarted on October 23, 2014 for HCC optimization pilot testing. Although the shutdown from October 18 through October 23 extended longer than 48 hours, Ecology had agreed in an e-mail dated September 12, 2014 to exempt this activity from the requirement to sample the sentry wells after a shutdown lasting longer than 48 hours (Ecology 2014).

Several other shutdown events, which did not last longer than 48 hours, occurred in 2014 primarily related to power outages, GAC change-outs, or miscellaneous system repairs.

4.3.6 Levee Zone

Results of groundwater sampling of Levee Zone monitoring wells 5-W-14 to 5-W-19 during the semiannual groundwater monitoring events in March and September 2014 are summarized above in Section 4.3.3. This section presents results for all four quarters including the March and September 2014 semiannual groundwater monitoring events.

Groundwater samples were collected quarterly during the Reporting Period from Levee Zone monitoring wells 5-W-14 through 5-W-19. NWTPH-Dx results from these quarterly events are shown on Figures 6 through 9, and the analytical results are presented in Table 7. A total of 24 groundwater samples were collected from Levee Zone monitoring wells during the Reporting Period. NWTPH-Dx was detected at concentrations between 16.9 to 680 µg/l in 11 of the 24 groundwater samples. NWTPH-Dx was detected in excess of the CUL in groundwater samples collected from two of the six Levee Zone monitoring wells, including monitoring well 5-W-15

(680, 350, 590, and 370 µg/l during the March, June, and December 2014 monitoring events, respectively); and 5-W-18 (230 and 235 µg/l during the March and December 2014 monitoring events, respectively). NWTPH-Dx was detected in excess of the RL in the groundwater samples collected from monitoring well 5-W-15 during the March and December 2014 monitoring events.

Monitoring well 5-W-15 is located within the 2006 interim cleanup action area, and both monitoring wells 5-W-15 and 5-W-18 are proximate to the Skykomish School where accumulations of LNAPL have been measured. NWTPH-Dx has not been detected at concentrations exceeding either the CUL or the RL in Levee Zone monitoring wells 5-W-14, 5-W-16, 5-W-17, and 5-W-19.

4.3.7 Former Maloney Creek Zone – East Wetland and Surrounding Area

Groundwater samples were collected quarterly from monitoring wells 2A-W-9, 2A-W-10, 2B-W-4, MW-3, and MW-4 adjacent to the Former Maloney Creek Zone-East Wetland during the Reporting Period. As discussed above, monitoring well 2A-W-9 was inadvertently omitted from sampling during the September 2014 monitoring event. NWTPH-Dx results from these events are presented in Table 7 and are shown on Figures 6 through 9.

A total of 19 groundwater samples were collected throughout the Reporting Period from the five Former Maloney Creek Zone groundwater monitoring locations. NWTPH-Dx was detected in 18 of the 19 samples collected during 2014. Detected NWTPH-Dx concentrations in these samples ranged from 16.3 to 1,310 µg/l, with six of the seven samples from monitoring wells 2A-W-9 and 2A-W-10 exceeding the RL. There were no RL exceedances in the groundwater samples collected from the remaining three monitoring wells in the Former Maloney Creek Zone-East Wetland area.

5.0 CONCLUSIONS

This report presents the results of groundwater monitoring performed during the 2014 Reporting Period. The groundwater elevation and analytical data collected throughout the Reporting Period were compared to previous monitoring data and the RL and CUL established for the Site. These data indicate that groundwater flow gradients are relatively consistent throughout the year and similar to gradients observed during previous monitoring events.

Site-wide analytical data collected during the Reporting Period indicate that the overall extent of the LNAPL and dissolved NWTPH-Dx plumes remained relatively stable. The estimated extent of LNAPL at the Site is depicted in Figures 6 through 9 for the four quarterly monitoring events in the Reporting Period and shows LNAPL thicknesses measured during each event and estimated extent of inferred LNAPL based on prior monitoring events. Thicknesses of LNAPL in excess of 4 feet were measured during the Reporting Period along sections of the south side of the HCC system barrier wall. Traces of LNAPL were measured in one monitoring well in the area proximate to the east side of the Skykomish School. The thickest accumulations were measured west of the Center Gate along the HCC system barrier wall and east of the West Gate. Heavy sheens were noted in recovery and monitoring wells in the railyard and within about 150 feet south of the thickest accumulations. As was the case in the 2013 Reporting Period, a sheen was noted in monitoring well MW-11 within about 150 feet south of the East Gate during three of the four quarterly monitoring events and, a trace was noted in monitoring well 2A-W-9 south of the railyard during the June 2014 monitoring event. LNAPL mobility is monitored as part of the HCC system operations (Farallon 2015).

Groundwater NWTPH-Dx concentrations during the Reporting Period exceeded the CUL of 208 µg/l and/or the RL of 477 µg/l at monitoring wells down-gradient of and immediately adjacent to areas currently or formerly containing LNAPL. A total of 36 wells were sampled (exclusive of the sentry wells), with samples from 34 monitoring wells collected during the Reporting Period having at least one detection of NWTPH-Dx. Of these detections, samples from two of the monitoring wells in the Levee Zone exceeded the CUL, and samples from five Site monitoring wells exceeded the RL as compared to eight during the prior 2013 Reporting Period. Two of these locations were in the former Maloney Creek Zone south of the railyard. The data do not indicate significant migration of LNAPL or changes in NWTPH-Dx concentrations during the Reporting Period. The data indicate that the HCC system is effectively preventing LNAPL and NWTPH-Dx from passing through the HCC system barrier gates.

Site-wide groundwater monitoring has been conducted quarterly at the Site since 2006 and nearly the entire Site cleanup has been performed with the exception of cleanup beneath the Skykomish School building. Treatment beneath the Skykomish School building using Hot Water Flushing will commence in 2015. Based on the results of the groundwater monitoring and sampling performed since 2006, BNSF proposes to modify the quarterly (June and December) groundwater monitoring events to focus the sampling and gauging activities in the areas proximate to the HCC barrier wall to ensure that established objectives for containment of

contaminated groundwater within the railyard are achieved. With Ecology concurrence, these modifications will be documented in an addendum to the Groundwater Monitoring Plan that has been prepared for the Site (AECOM 2010a). Upon completion of all cleanup actions specified in the CAP, groundwater monitoring will be conducted in accordance with a Long-Term Confirmational Monitoring Plan, which will be prepared and submitted to Ecology in accordance with Exhibit C of the Consent Decree. In advance of developing the Long-Term Confirmational Monitoring Plan, BNSF proposes the aforementioned change to the groundwater monitoring activities.

6.0 BIBLIOGRAPHY

AECOM Environmental (AECOM). 2009a. *2009 Compliance Monitoring Plan Update, BNSF Former Maintenance and Fueling Facility – Skykomish, Washington.* Prepared for The BNSF Railway Company. April.

———. 2009b. *2008 Addendum to the Remedial Design Investigation Report, Former Maintenance and Fueling Facility – Skykomish, Washington.* Prepared for BNSF Railway Company. July.

———. 2009c. *Former Maloney Creek Zone – West Wetland Sediment and Soil Investigation Report, Former Maintenance and Fueling Facility – Skykomish, Washington.* Prepared for BNSF Railway Company. March.

———. 2010a. *2010 Compliance Monitoring Plan Update (Draft), BNSF Former Maintenance and Fueling Facility – Skykomish, Washington, Appendix E.* Prepared for The BNSF Railway Company. April 30.

———. 2010b. *Final 2009 Remedial Design Investigation Report. Former Maintenance and Fueling Facility – Skykomish, Washington.* Prepared for BNSF Railway Company. January.

———. 2010c. Specifications – 2010 Remediation. Skykomish, Washington. Prepared for BNSF Railway Company. May.

———. 2011. *Draft 2010 Annual Hydraulic Control and Containment System Operations Report. Skykomish, Washington.* Prepared for BNSF Railway Company. February.

———. 2012a. *Draft 2011 Annual Air Sparging System Operations Report. Skykomish, Washington.* Prepared for BNSF Railway Company. February.

———. 2012b. *Draft 2011 Annual Hydraulic Control and Containment System Operations Report. Skykomish, Washington.* Prepared for BNSF Railway Company. February.

———. 2012c. Memorandum Regarding HCC System Updated Optimization Plan. From Greg Chase. To Brian Sato, Washington State Department of Ecology. May 9.

ENSR. 2007. *Levee Zone Interim Action for Cleanup - 2007 As-Built Completion Report. Former Maintenance and Fueling Facility – Skykomish, Washington.* Prepared for BNSF Railway Company. August.

———. 2008a. *Final Groundwater Monitoring Plan, Former Maintenance and Fueling Facility – Skykomish, Washington.* Prepared for BNSF Railway Company. July.

———. 2008b. *2007 Remedial Design Investigation Report. Former Maintenance and Fueling Facility – Skykomish, Washington.* Prepared for BNSF Railway Company. May.

Farallon Consulting, L.L.C. (Farallon). 2012. Technical Memorandum Regarding HCC System Optimization Work Plan, Skykomish Cleanup Action, Skykomish, Washington. From Richard McManus and Gerald Portele. To Brian Sato, Washington State Department of Ecology. December 11.

———. 2013a. Technical Memorandum Regarding HCC System Optimization Status Report. From Richard McManus, P.E. To Brian Sato, P.E., Washington State Department of Ecology. February 27.

———. 2013b. *2012 Annual Air Sparging System Report, BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. July 12.

———. 2013c. *2012 Annual Hydraulic Control and Containment System Operations Report, Skykomish Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. July 26.

———. 2013d. *2011/2012 Site-Wide Groundwater Monitoring Report, BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. July 29.

———. 2013e. *2012 As-Built Completion Report, BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. April 26.

———. 2014a. *2013 As-Built Completion Report. BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. April 28.

———. 2014b. *2013 Annual Air Sparging System Report, BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. April 28.

———. 2014c. *2013 Annual Hydraulic Control and Containment System Operations Report. BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. August 7.

———. 2014d. *2013 Site-Wide Groundwater Monitoring Report, BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. August 7.

———. 2015. *2014 Annual Hydraulic Control and Containment System Operations Report, BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* In preparation for BNSF Railway Company. March.

The RETEC Group, Inc. (RETEC). 1996. *Remedial Investigation for the Former Maintenance and Fueling Facility in Skykomish, Washington. Seattle, Washington: Remediation Technologies, Inc.* Prepared for BNSF Railway Company. January.

———. 2001. *Interim Action Basis of Design for LNAPL Barrier System: Former BNSF Fueling and Maintenance Facility, Skykomish, Washington, Vol. 1 of 2.* Prepared for BNSF Railway Company. August 10.

———. 2002a. *Supplemental Remedial Investigation: BSNF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. July 12.

———. 2002b. *Supplemental Remedial Investigation, Volume 1: Text, Tables, Figures, and Appendices A through D, BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for The Burlington Northern and Santa Fe Railway Company, Seattle, Washington. July 16.

———. 2005a. *Groundwater Sampling Plan. Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. May 12.

———. 2005b. *Final Feasibility Study. Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. March 15.

———. 2007. *Groundwater Monitoring Plan, Revision 1, Former Maintenance and Fueling Facility, Skykomish Washington.* Prepared for BNSF Railway Company. June 7.

U.S. Environmental Protection Agency (EPA). 2008. *Contract Laboratory Program National Functional Guidelines For Superfund Organic Methods Data Review.* Office of Superfund Remediation and Technology Innovation. USEPA-540-R-008-01. June.

Washington State Department of Ecology (Ecology). 2007a. *Cleanup Action Plan, Cleanup Action Plan for BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for BNSF Railway Company. October.

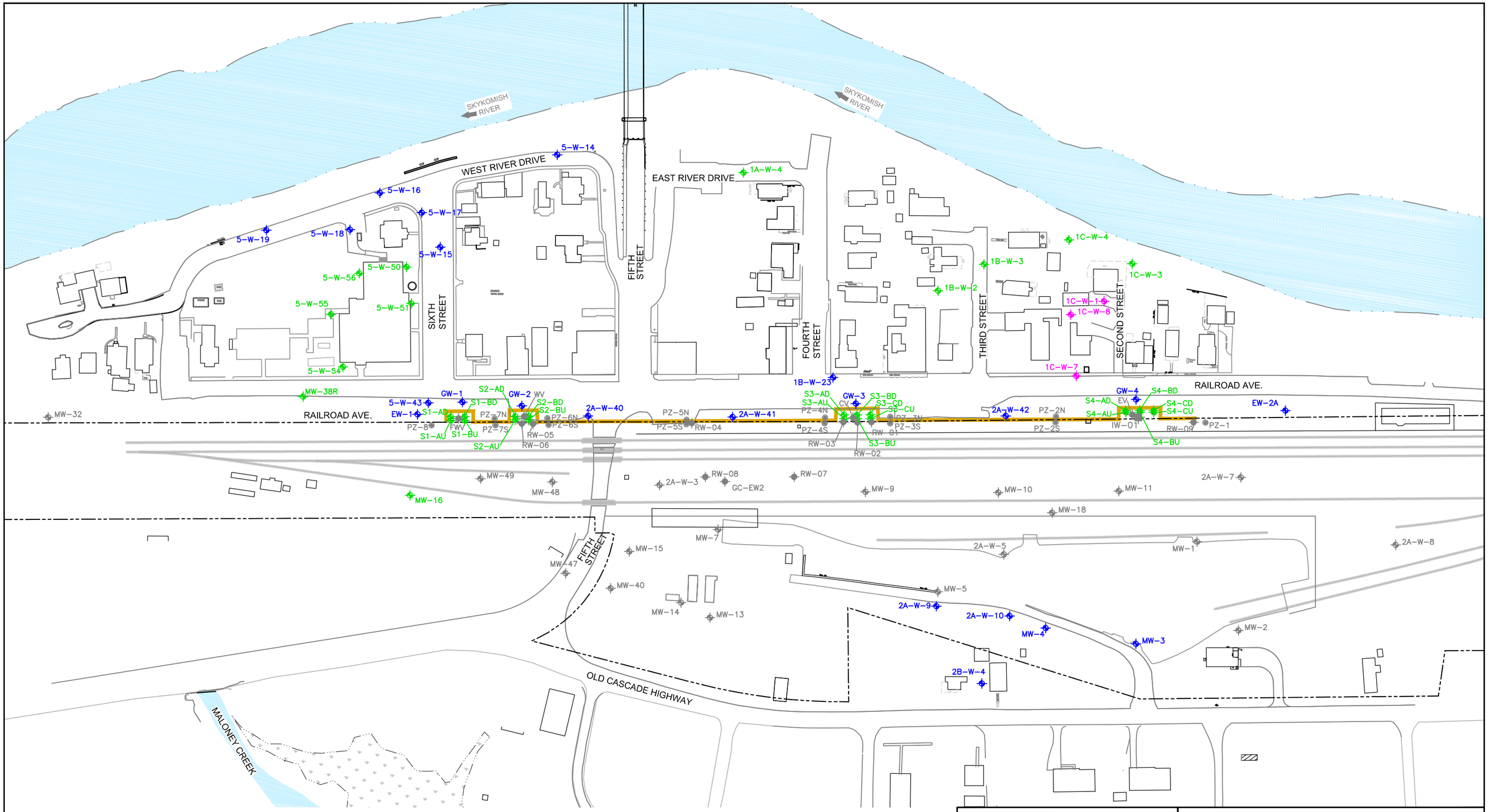
———. 2007b. *Final Consent Decree for BNSF Railway Former Maintenance and Fueling Facility, Skykomish, Washington.* October.

———. 2014. E-Mail Message Regarding HCC Optimization Pilot Testing. From Brian Sato, P.E., Project Manager. To Rich McManus, Principal Civil Engineer, Farallon Consulting, L.L.C. September 12.

FIGURES

2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043



LEGEND

- 2A-W-41 MONITORING WELL
- RW-04 RECOVERY WELL
- PZ-5S PIEZOMETER
- IW-02 INJECTION WELL
- FMW VAULT WELL
- HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
- BNSF PROPERTY LINE
- WELLS SAMPLED MONTHLY
- WELLS SAMPLED QUARTERLY (ALSO INCLUDES WELLS SAMPLED MONTHLY)
- WELLS SAMPLED SEMIANNUALLY (ALSO INCLUDES WELLS SAMPLED MONTHLY AND QUARTERLY)
- GAUGE WELLS

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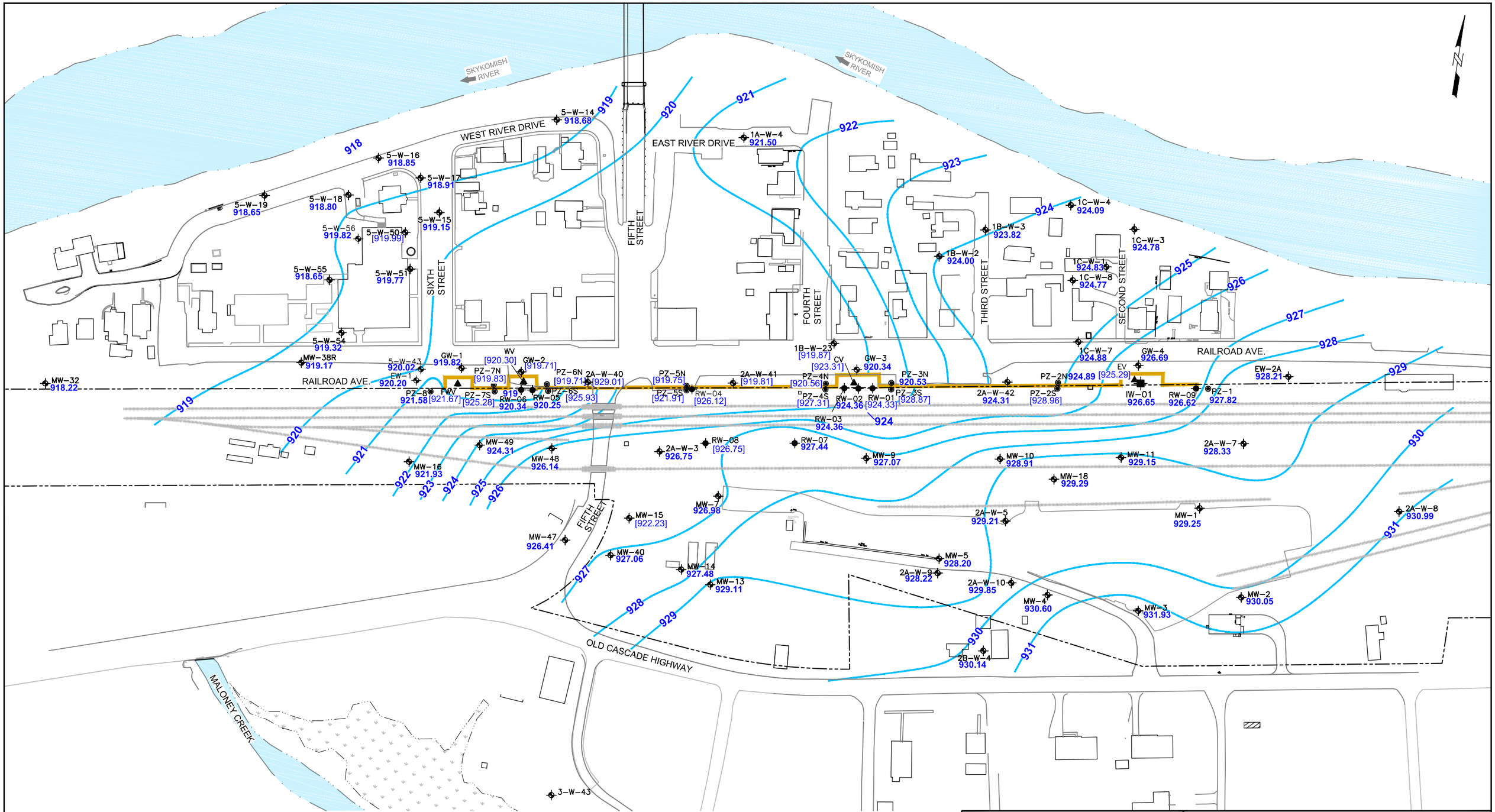
FIGURE 1

SITE PLAN SHOWING
GROUNDWATER MONITORING NETWORK
BNSF FORMER MAINTENANCE
AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: DEW Checked By: JP Date: 3/14/14 Disk Reference: 683043



LEGEND

- 2A-W-41 — MONITORING WELL
- RW-04 — RECOVERY WELL
- PZ-5S — PIEZOMETER
- IW-02 — INJECTION WELL
- FWV — VAULT WELL
- HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
- 927.23 — GROUNDWATER ELEVATION (MARCH 17, 2014)
- [923.12] — GROUNDWATER ELEVATION NOT CONSIDERED FOR CONTOURING PURPOSES
- 928 — APPROXIMATE GROUNDWATER ELEVATION CONTOUR
- BNSF PROPERTY LINE

NOTE:
SOME OF THE MEASURED HEAD VALUES IN CLOSE PROXIMITY TO THE BARRIER WALL MAY EXHIBIT SOME VARIABILITY/SLIGHT INCONSISTENCY WITH THE INTERPRETED CONTOURS. THIS COULD BE ATTRIBUTED TO VARIABILITY OF MEASUREMENT PRACTICE WITH RESPECT TO VAULT LIDS.

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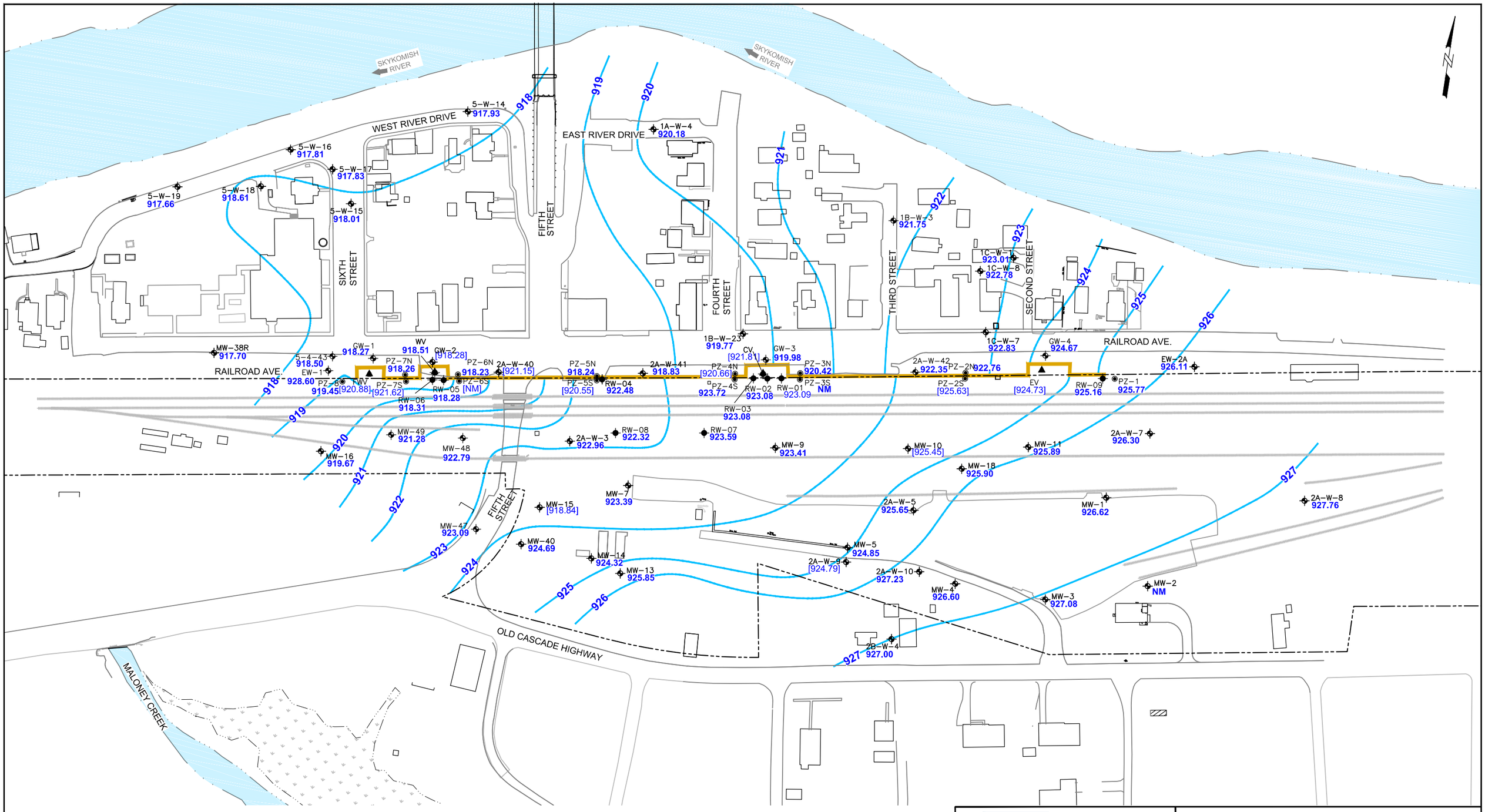
FIGURE 2

MARCH 2014
GROUNDWATER ELEVATION CONTOUR MAP
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: DEW Checked By: TC Date: 3/18/2015 Disk Reference: 683043d



LEGEND

2A-W-41	MONITORING WELL
RW-04	RECOVERY WELL
PZ-5S	PIEZOMETER
IW-02	INJECTION WELL
FWV	VAULT WELL
	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
927.58	GROUNDWATER ELEVATION (JUNE 16, 2014)
[919.86]	GROUNDWATER ELEVATION NOT CONSIDERED FOR CONTOURING PURPOSES
928	APPROXIMATE GROUNDWATER ELEVATION CONTOUR
NM	NOT MEASURED
	BNSF PROPERTY LINE

NOTE:
SOME OF THE MEASURED HEAD VALUES IN CLOSE PROXIMITY TO THE BARRIER WALL MAY EXHIBIT SOME VARIABILITY/SLIGHT INCONSISTENCY WITH THE INTERPRETED CONTOURS. THIS COULD BE ATTRIBUTED TO VARIABILITY OF MEASUREMENT PRACTICE WITH RESPECT TO VAULT LIDS.

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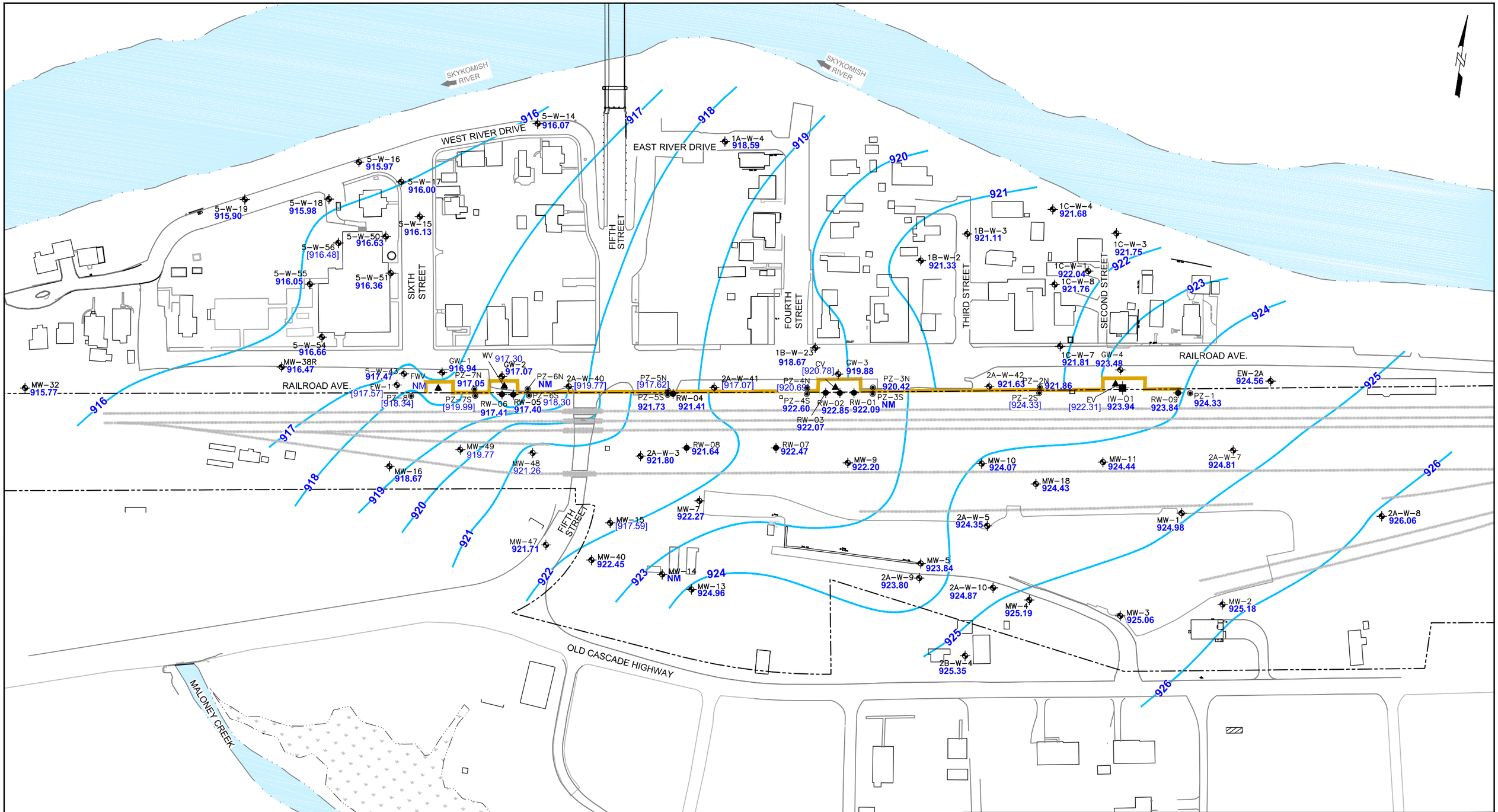
FIGURE 3

JUNE 2014
GROUNDWATER ELEVATION CONTOUR MAP
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: DEW Checked By: TC Date: 3/9/2015 Disk Reference: 683043d



LEGEND

2A-W-41	MONITORING WELL
RW-04	RECOVERY WELL
PZ-5S	PIEZOMETER
IW-02	INJECTION WELL
FWV	VAULT WELL
	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
927.23	GROUNDWATER ELEVATION (SEPTEMBER 15, 2014)
[917.19]	GROUNDWATER ELEVATION NOT CONSIDERED FOR CONTOURING PURPOSES
928	APPROXIMATE GROUNDWATER ELEVATION CONTOUR
NM	NOT MEASURED
	BNSF PROPERTY LINE

NOTE:
SOME OF THE MEASURED HEAD VALUES IN CLOSE PROXIMITY TO THE BARRIER WALL MAY EXHIBIT SOME VARIABILITY/SLIGHT INCONSISTENCY WITH THE INTERPRETED CONTOURS. THIS COULD BE ATTRIBUTED TO VARIABILITY OF MEASUREMENT PRACTICE WITH RESPECT TO VAULT LIDS.

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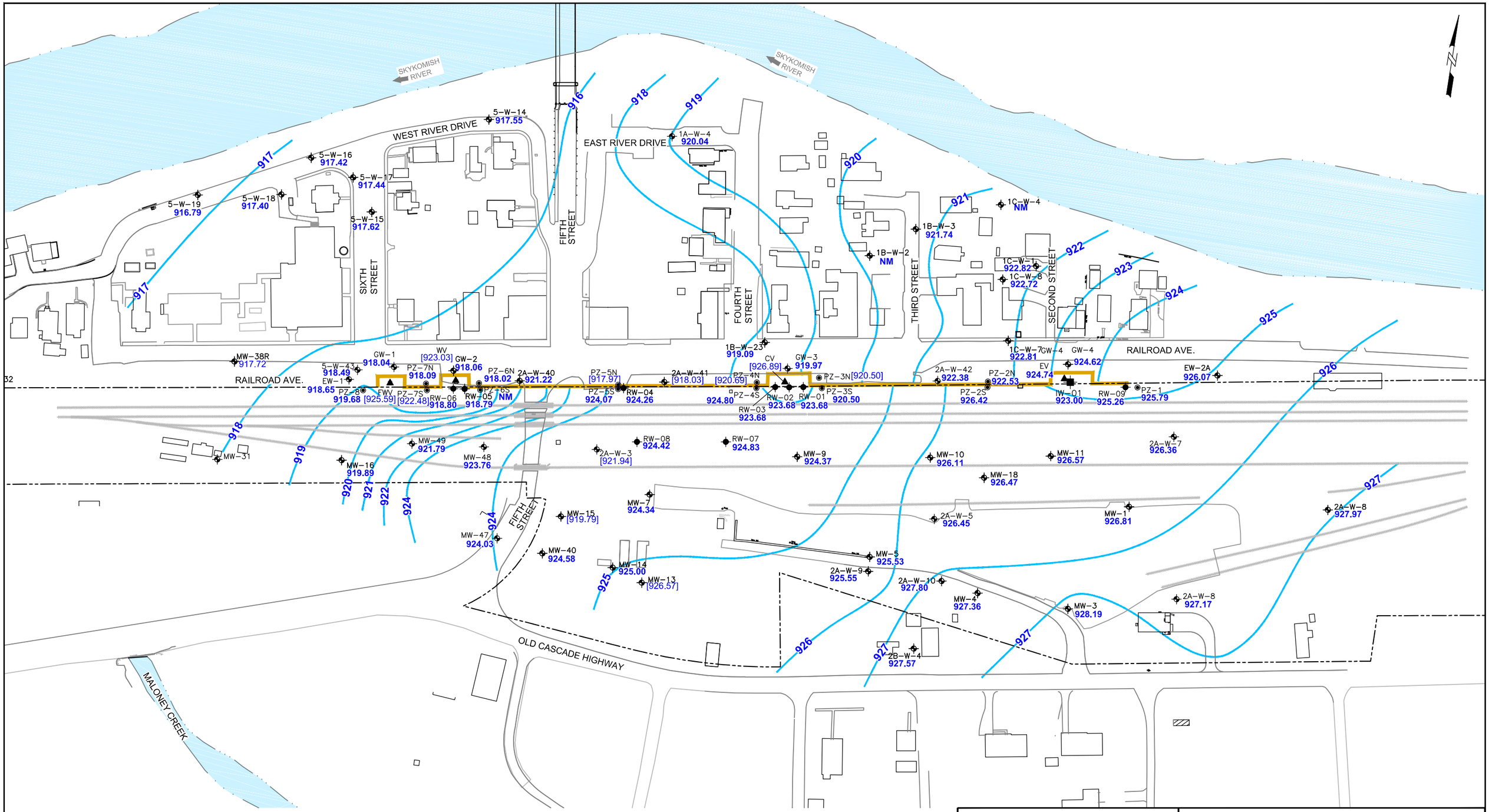
FIGURE 4

SEPTEMBER 2014
GROUNDWATER ELEVATION CONTOUR MAP
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: DEW Checked By: TC Date: 3/19/2015 Disk Reference: 683043d



LEGEND

- 2A-W-41 — MONITORING WELL
- RW-04 — RECOVERY WELL
- PZ-5S — PIEZOMETER
- IW-02 — INJECTION WELL
- FWV — VAULT WELL
- HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
- 926.48 — GROUNDWATER ELEVATION (DECEMBER 12 AND 13, 2013)
- [919.03] — GROUNDWATER ELEVATION NOT CONSIDERED FOR CONTOURING PURPOSES
- 928 — APPROXIMATE GROUNDWATER ELEVATION CONTOUR
- BNSF PROPERTY LINE

NOTE:
SOME OF THE MEASURED HEAD VALUES IN CLOSE PROXIMITY TO THE BARRIER WALL MAY EXHIBIT SOME VARIABILITY/SLIGHT INCONSISTENCY WITH THE INTERPRETED CONTOURS. THIS COULD BE ATTRIBUTED TO VARIABILITY OF MEASUREMENT PRACTICE WITH RESPECT TO VAULT LIDS.

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FIGURE 5

DECEMBER 2014
GROUNDWATER ELEVATION CONTOUR MAP
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

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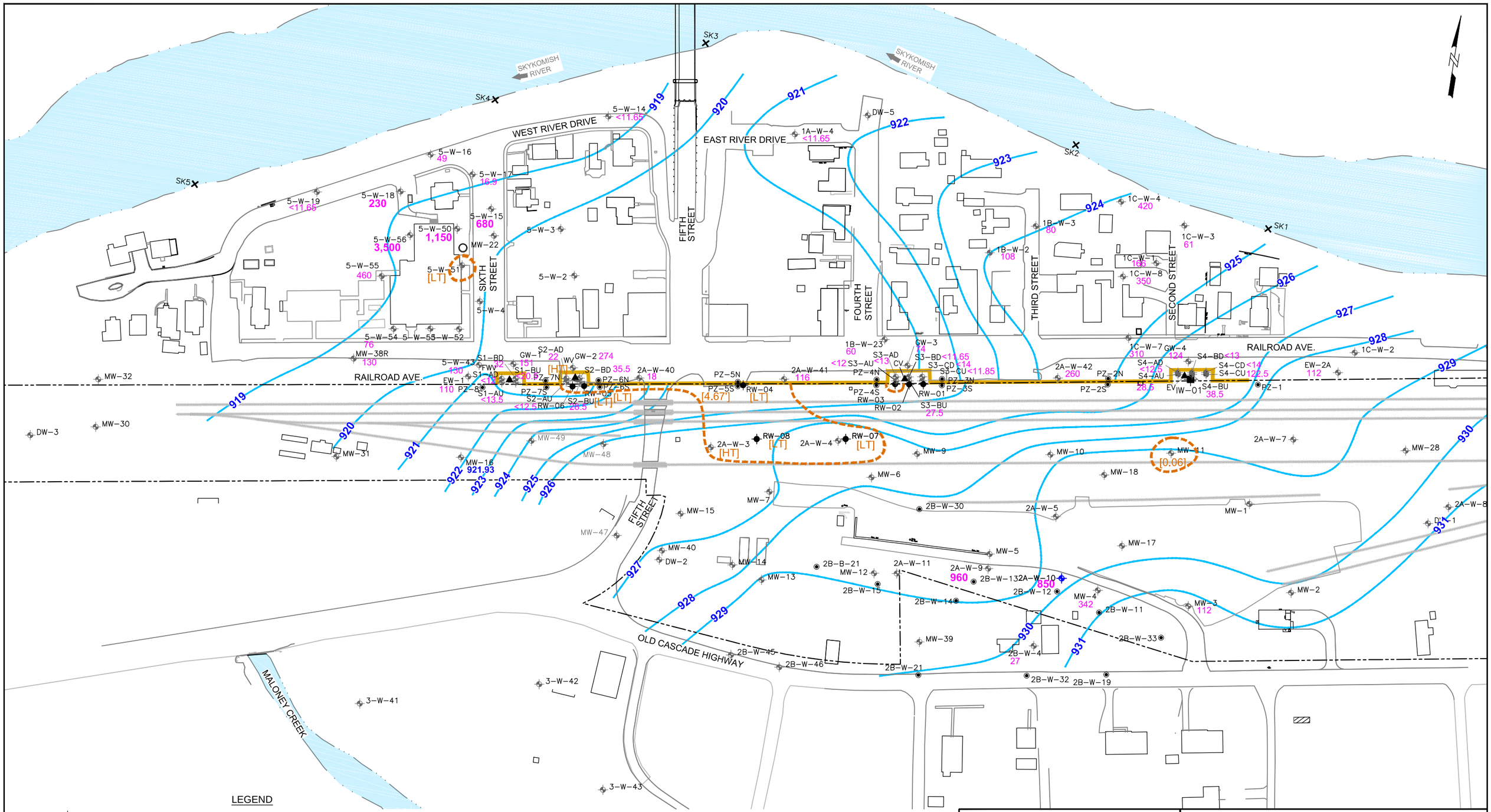
Drawn By: DEW Checked By: TC Date: 3/19/2015 Disk Reference: 683043d



LEGEND

2A-W-41	MONITORING WELL
RW-04	RECOVERY WELL
PZ-5S	PIEZOMETER
IW-02	INJECTION WELL
FWV	VAULT WELL
SK4	SKYKOMISH RIVER GAUGE STATIONS
	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
	BNSF PROPERTY LINE

50.5 TOTAL PETROLEUM HYDROCARBONS IN MICROGRAMS PER LITER CALCULATED BY SUMMING THE ANALYTICAL RESULTS FOR THE DIESEL-RANGE AND OIL-RANGE FRACTIONS. IF EITHER THE DIESEL OR OIL-RANGE FRACTIONS WERE NOT DETECTED THEN HALF THE ANALYTICAL METHOD DETECTION LIMIT WAS USED IN THE CALCULATION. IF BOTH FRACTIONS WERE NOT DETECTED, THEN HALF THE ANALYTICAL METHOD DETECTION LIMITS WERE ADDED TO REPRESENT THE CALCULATED TOTAL PETROLEUM HYDROCARBONS CONCENTRATION PREFIXED BY THE"<" SYMBOL.
BOLD INDICATES THAT THE TOTAL PETROLEUM HYDROCARBONS 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.

ESTIMATED EXTENT OF LNAPL AS INDICATED BY LIGHT TRACE (LT), HEAVY TRACE (HT), OR PRODUCT THICKNESS ON GROUNDWATER DURING THE MONITORING EVENT.

[HT] HEAVY TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

[LT] LIGHT TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

[1.15'] MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

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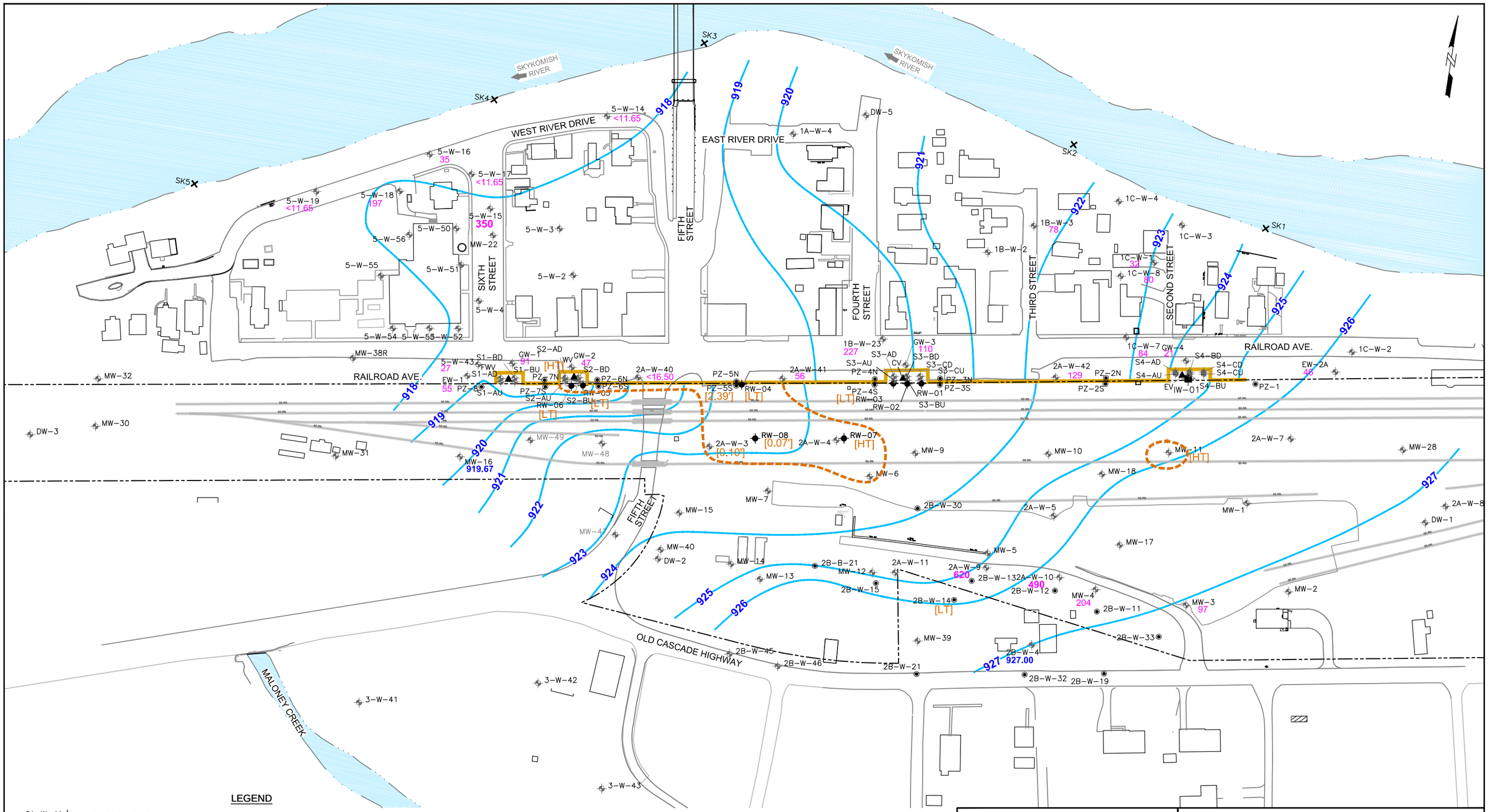
FIGURE 6

MARCH 2014 TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: DEW Checked By: TC Date: 3/19/2015 Disk Reference: 683043b



LEGEND

2A-W-41	MONITORING WELL	50.5 TOTAL PETROLEUM HYDROCARBONS IN MICROGRAMS PER LITER CALCULATED BY SUMMING THE ANALYTICAL RESULTS FOR THE DIESEL-RANGE AND OIL-RANGE FRACTIONS. IF EITHER THE DIESEL OR OIL-RANGE FRACTIONS WERE NOT DETECTED THEN HALF THE ANALYTICAL METHOD DETECTION LIMIT WAS USED IN THE CALCULATION. IF BOTH FRACTIONS WERE NOT DETECTED, THEN HALF THE ANALYTICAL METHOD DETECTION LIMITS WERE ADDED TO REPRESENT THE CALCULATED TOTAL PETROLEUM HYDROCARBONS CONCENTRATION PREFIXED BY THE"<" SYMBOL. **BOLD** INDICATES THAT THE TOTAL PETROLEUM HYDROCARBONS 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.
RW-04	RECOVERY WELL	
PZ-5S	PIEZOMETER	
IW-02	INJECTION WELL	
FWV	VAULT WELL	
SK4	SKYKOMISH RIVER GAUGE STATIONS	
	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL	ESTIMATED EXTENT OF LNAPL AS INDICATED BY LIGHT TRACE (LT), HEAVY TRACE (HT), OR PRODUCT THICKNESS ON GROUNDWATER DURING THE MONITORING EVENT.
	BNSF PROPERTY LINE	[HT] HEAVY TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET
		[LT] LIGHT TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET
		[1.15'] MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

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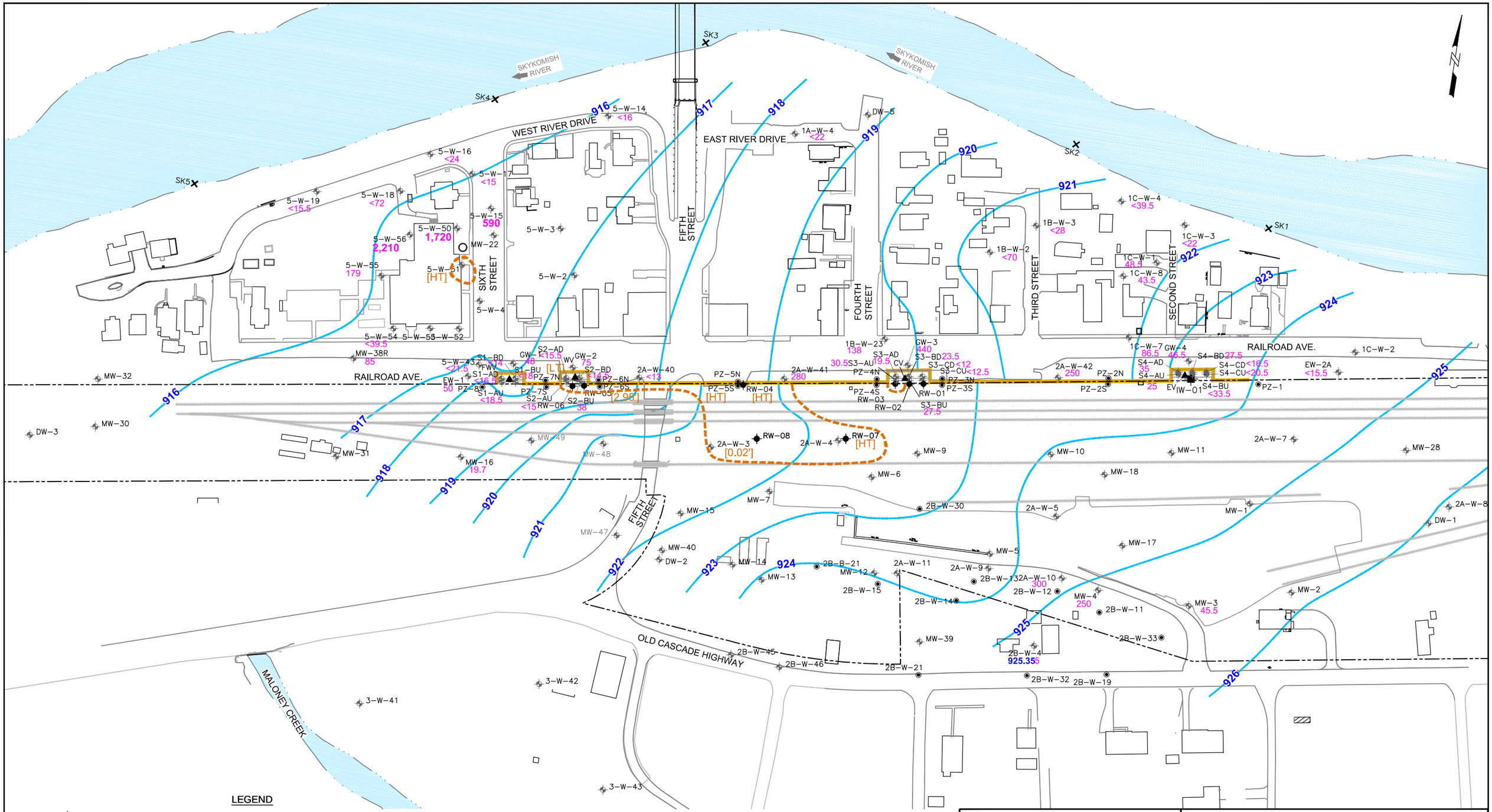
FIGURE 7

JUNE 2014 TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: DEW Checked By: TC Date: 3/19/2015 Disk Reference: 683043b



LEGEND

2A-W-41	MONITORING WELL
RW-04	RECOVERY WELL
PZ-5S	PIEZOMETER
IW-02	INJECTION WELL
FWV	VAULT WELL
SK4	SKYKOMISH RIVER GAUGE STATIONS
	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
	BNSF PROPERTY LINE

50.5	TOTAL PETROLEUM HYDROCARBONS IN MICROGRAMS PER LITER CALCULATED BY SUMMING THE ANALYTICAL RESULTS FOR THE DIESEL-RANGE AND OIL-RANGE FRACTIONS. IF EITHER THE DIESEL OR OIL-RANGE FRACTIONS WERE NOT DETECTED THEN HALF THE ANALYTICAL METHOD DETECTION LIMIT WAS USED IN THE CALCULATION. IF BOTH FRACTIONS WERE NOT DETECTED, THEN HALF THE ANALYTICAL METHOD DETECTION LIMITS WERE ADDED TO REPRESENT THE CALCULATED TOTAL PETROLEUM HYDROCARBONS CONCENTRATION PREFIXED BY THE"<" SYMBOL. **BOLD** INDICATES THAT THE TOTAL PETROLEUM HYDROCARBONS 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.
	ESTIMATED EXTENT OF LNAPL AS INDICATED BY LIGHT TRACE (LT), HEAVY TRACE (HT), OR PRODUCT THICKNESS ON GROUNDWATER DURING THE MONITORING EVENT.
[HT]	HEAVY TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET
[LT]	LIGHT TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET
[1.15']	MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

70 0 140

SCALE IN FEET

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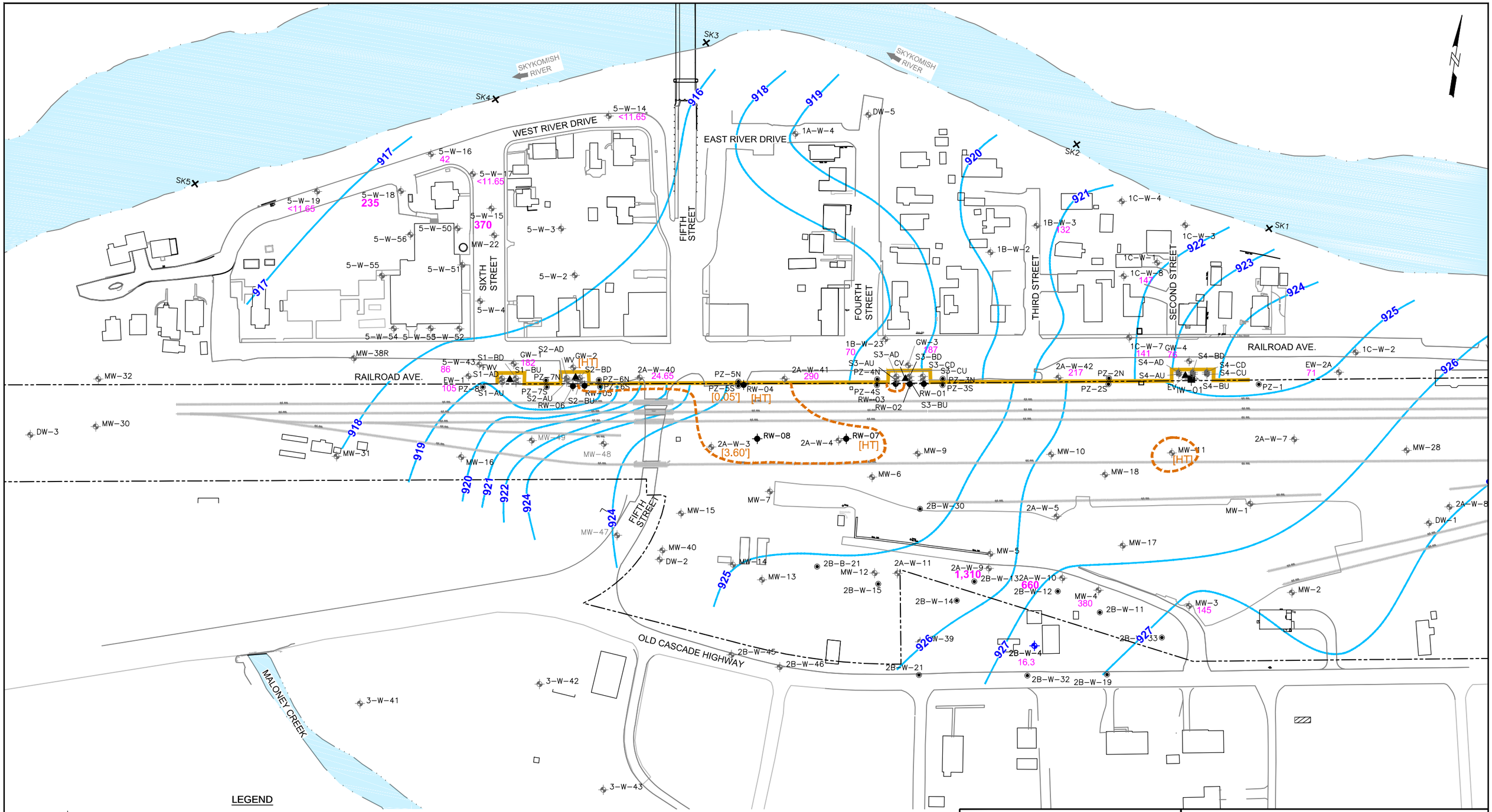
FIGURE 8

SEPTEMBER 2014 TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: DEW Checked By: TC Date: 3/19/2015 Disk Reference: 683043b



LEGEND

2A-W-41	MONITORING WELL
RW-04	RECOVERY WELL
PZ-5S	PIEZOMETER
IW-02	INJECTION WELL
FWV	VAULT WELL
SK4	SKYKOMISH RIVER GAUGE STATIONS
	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
	BNSF PROPERTY LINE

50.5	TOTAL PETROLEUM HYDROCARBONS IN MICROGRAMS PER LITER CALCULATED BY SUMMING THE ANALYTICAL RESULTS FOR THE DIESEL-RANGE AND OIL-RANGE FRACTIONS. IF EITHER THE DIESEL OR OIL-RANGE FRACTIONS WERE NOT DETECTED THEN HALF THE ANALYTICAL METHOD DETECTION LIMIT WAS USED IN THE CALCULATION. IF BOTH FRACTIONS WERE NOT DETECTED, THEN HALF THE ANALYTICAL METHOD DETECTION LIMITS WERE ADDED TO REPRESENT THE CALCULATED TOTAL PETROLEUM HYDROCARBONS CONCENTRATION PREFIXED BY THE"<" SYMBOL. **BOLD** INDICATES THAT THE TOTAL PETROLEUM HYDROCARBONS 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.
	ESTIMATED EXTENT OF LNAPL AS INDICATED BY LIGHT TRACE (LT), HEAVY TRACE (HT), OR PRODUCT THICKNESS ON GROUNDWATER DURING THE MONITORING EVENT.
[HT]	HEAVY TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET
[LT]	LIGHT TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET
[1.15']	MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

70 0 140

SCALE IN FEET

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FIGURE 9

DECEMBER 2014TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: DEW Checked By: TC Date: 3/19/2015 Disk Reference: 683043b

TABLES

2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

Table 1
2014 Modifications to the Groundwater Monitoring Network
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Activity	Date	Location Identification	Location Type	Location Monitoring Function	Rationale for Groundwater Monitoring Network Modification	Reference for Planned Activity
Revised Monitoring Frequency	6/1/2014	1B-W-3	Monitoring Well	Down-gradient of the air sparge system	Air sparge system operations were shut down in May 2013, with continued monthly monitoring through June 2014. Monitoring frequency revised with Ecology concurrence.	Continue to monitor during semiannual and quarterly monitoring events.
Revised Monitoring Frequency	6/1/2014	1C-W-7	Monitoring Well	Up-gradient of the air sparge system	Air sparge system operations were shut down in May 2013, with continued monthly monitoring through June 2014. Monitoring frequency revised with Ecology concurrence.	Continue to monitor during semiannual and quarterly monitoring events.
Revised Monitoring Frequency	6/1/2014	1C-W-8	Monitoring Well	Down-gradient of the air sparge system	Air sparge system operations were shut down in May 2013, with continued monthly monitoring through June 2014. Monitoring frequency revised with Ecology concurrence.	Continue to monitor during semiannual and quarterly monitoring events.
Well Located and Returned to Service	3/1/2014	5-W-43	Monitoring Well	Down-gradient of the HCC system	Well was located following grading activities undertaken in this area and included in 2014 monitoring events.	Continue to monitor during semiannual and quarterly monitoring events.

NOTES:
— = not applicable

Ecology = Washington State Department of Ecology
HCC = Hydraulic Control and Containment

Table 2
2014 Groundwater Monitoring Event Dates
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Event	Start Date	End Date
Air Sparge System Monthly Groundwater Sampling Event	01/17/2014	01/17/2014
Air Sparge System Monthly Groundwater Sampling Event	02/18/2014	02/18/2014
Semiannual Fluid Gauging Event	03/17/2014	03/17/2014
Semiannual Groundwater Sampling Event	03/18/2014	03/20/2014
Air Sparge System Monthly Groundwater Sampling Event	04/21/2014	04/21/2014
Air Sparge System Monthly Groundwater Sampling Event and Supplementary Fluid Level Gauging Event	05/20/2014	05/20/2014
Quarterly Fluid Gauging Event	06/16/2014	06/16/2014
Quarterly Groundwater Sampling Event	06/17/2014	06/18/2014
Semiannual Fluid Gauging Event	09/15/2014	09/15/2014
Semiannual Groundwater Sampling Event	09/16/2014	09/18/2014
Quarterly Fluid Gauging Event	12/15/2014	12/15/2014
Quarterly Groundwater Sampling Event	12/16/2014	12/17/2014

NOTES:
Sampling details for each monitoring event are included in Table 3.

Table 3
2014 Groundwater Sampling Event Details
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Zone	Location Identification	Groundwater Sampling Events			Analyte
		Monthly[1]	Quarterly	Semiannually	
Air Sparging System	1C-W-1	X	X	X	NWTPH-Dx
	1C-W-7	X	X	X	NWTPH-Dx
	1C-W-8	X	X	X	NWTPH-Dx
Down-gradient of the HCC	1B-W-23	—	X	X	NWTPH-Dx
	2A-W-40	—	X	X	NWTPH-Dx
	2A-W-41	—	X	X	NWTPH-Dx
	2A-W-42	—	X	X	NWTPH-Dx
FMCZ-EW and Surrounding Areas	2A-W-10	—	X	X	NWTPH-Dx
	2A-W-9	—	X	X	NWTPH-Dx
	2B-W-4	—	X	X	NWTPH-Dx
	MW-3	—	X	X	NWTPH-Dx
	MW-4	—	X	X	NWTPH-Dx
HCC System	EW-1	—	X	X	NWTPH-Dx
	EW-2A	—	X	X	NWTPH-Dx
	GW-1	—	X	X	NWTPH-Dx
	GW-2	—	X	X	NWTPH-Dx
	GW-3	—	X	X	NWTPH-Dx
	GW-4	—	X	X	NWTPH-Dx
	S1-AD	—	—	X	NWTPH-Dx
	S1-AU	—	—	X	NWTPH-Dx
	S1-BD	—	—	X	NWTPH-Dx
	S1-BU	—	—	X	NWTPH-Dx
	S2-AD	—	—	X	NWTPH-Dx
	S2-AU	—	—	X	NWTPH-Dx
	S2-BD	—	—	X	NWTPH-Dx
	S2-BU	—	—	X	NWTPH-Dx
	S3-AD	—	—	X	NWTPH-Dx
	S3-AU	—	—	X	NWTPH-Dx
	S3-BD	—	—	X	NWTPH-Dx
	S3-BU	—	—	X	NWTPH-Dx
	S3-CD	—	—	X	NWTPH-Dx
	S3-CU	—	—	X	NWTPH-Dx
	S4-AD	—	—	X	NWTPH-Dx
	S4-AU	—	—	X	NWTPH-Dx
	S4-BD	—	—	X	NWTPH-Dx
	S4-BU	—	—	X	NWTPH-Dx
	S4-CD	—	—	X	NWTPH-Dx
	S4-CU	—	—	X	NWTPH-Dx
Levee	5-W-14	—	X	X	NWTPH-Dx
	5-W-15	—	X	X	NWTPH-Dx
	5-W-16	—	X	X	NWTPH-Dx
	5-W-17	—	X	X	NWTPH-Dx
	5-W-18	—	X	X	NWTPH-Dx
	5-W-19	—	X	X	NWTPH-Dx

Table 3
2014 Groundwater Sampling Event Details
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Zone	Location Identification	Groundwater Sampling Events			Analyte
		Monthly[1]	Quarterly	Semiannually	
Schoolyard	5-W-50	—	—	X	NWTPH-Dx
	5-W-51	—	—	X	NWTPH-Dx
	5-W-54	—	—	X	NWTPH-Dx
	5-W-55	—	—	X	NWTPH-Dx
	5-W-56	—	—	X	NWTPH-Dx
Site-Wide	1A-W-4	—	—	X	NWTPH-Dx
	1B-W-2	—	—	X	NWTPH-Dx
	1B-W-3	—	—	X	NWTPH-Dx
	1C-W-3	—	—	X	NWTPH-Dx
	1C-W-4	—	—	X	NWTPH-Dx
	MW-16	—	—	X	NWTPH-Dx
	MW-38R	—	—	X	NWTPH-Dx

NOTES:
[1]Monthly monitoring of air sparge area monitoring wells was discontinued effective July 2014.
FMCZ-EW = Former Maloney Creek Zone - East Wetland
HCC = Hydraulic Control and Containment
NWTPH-Dx = total petroleum hydrocarbons as diesel-range and as oil-range organics

Table 4
2014 Fluid Gauging Events Summary
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Zone	Location Identification	Gauging Monitoring Frequency				
		Continuous[1]	Weekly	Monthly[2]	Quarterly	Semiannually
Air Sparging System	1C-W-1	—	—	X	X	X
	1C-W-7	—	—	X	X	X
	1C-W-8	—	—	X	X	X
Down-gradient of the HCC System[1]	1B-W-23	—	—	—	X	X
	2A-W-40	—	—	—	X	X
	2A-W-41	—	—	—	X	X
	2A-W-42	—	—	—	X	X
FMCZ-EW and Surrounding Areas	2A-W-10	—	—	—	X	X
	2A-W-3	—	—	—	X	X
	2A-W-5	—	—	—	X	X
	2A-W-7	—	—	—	X	X
	2A-W-9	—	—	—	X	X
	2B-W-4	—	—	—	X	X
	MW-1	—	—	—	X	X
	MW-11	—	—	—	X	X
	MW-13	—	—	—	X	X
	MW-14	—	—	—	X	X
	MW-15	—	—	—	X	X
	MW-18	—	—	—	X	X
	MW-2	—	—	—	X	X
	MW-3	—	—	—	X	X
	MW-4	—	—	—	X	X
	MW-40	—	—	—	X	X
	MW-5	—	—	—	X	X
	MW-7	—	—	—	X	X
	MW-9	—	—	—	X	X
	MW-10	—	—	—	X	X
HCC System	CV	X	X	—	X	X
	EV	X	X	—	X	X
	WV	X	X	—	X	X
	FWV	X	X	—	X	X
	EW-1	—	—	—	X	X
	EW-2A	—	—	—	X	X
	GW-1	X	X	—	X	X
	GW-2	X	X	—	X	X
	GW-3	X	X	—	X	X
	GW-4	X	X	—	X	X
	IW-01	—	—	—	—	X
	PZ-1	X	—	—	X	X
	PZ-2N	X	—	—	X	X
	PZ-2S	X	—	—	X	X
	PZ-3N	X	—	—	X	X
	PZ-3S	X	—	—	X	X

Table 4
2014 Fluid Gauging Events Summary
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Zone	Location Identification	Gauging Monitoring Frequency				
		Continuous[1]	Weekly	Monthly[2]	Quarterly	Semiannually
HCC System (continued)	PZ-4N	X	—	—	X	X
	PZ-4S	X	—	—	X	X
	PZ-5N	X	—	—	X	X
	PZ-5S	X	—	—	X	X
	PZ-6N	X	—	—	X	X
	PZ-6S	X	—	—	X	X
	PZ-7N	X	—	—	X	X
	PZ-7S	X	—	—	X	X
	PZ-8	X	—	—	X	X
	RW-01	X	—	—	X	X
	RW-02	X	—	—	X	X
	RW-03	X	—	—	X	X
	RW-04	X	—	—	X	X
	RW-05	X	—	—	X	X
	RW-06	X	—	—	X	X
	RW-07	X	—	—	X	X
	RW-08	X	—	—	X	X
	RW-09	X	—	—	X	X
	S1-AD	—	—	—	—	—
	S1-AU	—	—	—	—	—
	S1-BD	—	—	—	—	—
	S1-BU	—	—	—	—	—
	S2-AD	—	—	—	—	—
	S2-AU	—	—	—	—	—
	S2-BD	—	—	—	—	—
	S2-BU	—	—	—	—	—
	S3-AD	—	—	—	—	—
	S3-AU	—	—	—	—	—
	S3-BD	—	—	—	—	—
	S3-BU	—	—	—	—	—
	S3-CD	—	—	—	—	—
	S3-CU	—	—	—	—	—
	S4-AD	—	—	—	—	—
	S4-AU	—	—	—	—	—
	S4-BD	—	—	—	—	—
	S4-BU	—	—	—	—	—
	S4-CD	—	—	—	—	—
	S4-CU	—	—	—	—	—

Table 4
2014 Fluid Gauging Events Summary
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Zone	Location Identification	Gauging Monitoring Frequency				
		Continuous[1]	Weekly	Monthly[2]	Quarterly	Semiannually
Levee	5-W-14	—	—	—	X	X
	5-W-15	—	—	—	X	X
	5-W-16	—	—	—	X	X
	5-W-17	—	—	—	X	X
	5-W-18	—	—	—	X	X
	5-W-19	—	—	—	X	X
Schoolyard	5-W-50	—	—	—	—	X
	5-W-51	—	—	—	—	X
	5-W-54	—	—	—	—	X
	5-W-55	—	—	—	—	X
	5-W-56	—	—	—	—	X
Site-Wide	1A-W-4	—	—	—	X	X
	1B-W-2	—	—	—	—	X
	1B-W-3	—	—	—	—	X
	1C-W-3	—	—	—	—	X
	1C-W-4	—	—	—	—	X
	2A-W-8	—	—	—	X	X
	MW-16	—	—	—	X	X
	MW-32	—	—	—	—	X
	MW-38R	—	—	—	X	X
	MW-47[3]	—	—	—	X	X
	MW-48[3]	—	—	—	X	X
	MW-49[3]	—	—	—	X	X

NOTES:

— denotes not gauged at the frequency indicated.

[1] Water level transducers have been used to collect continuous water level measurements at these locations. Water levels are recorded daily.

[2] Monthly gauging of monitoring wells in the air sparge system area was discontinued effective July 2014.

[3] Wells installed during August 2012.

FMCZ-EW = Former Maloney Creek Zone - East Wetland

HCC = Hydraulic Control and Containment

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
Air Sparging System Monitoring Wells					
1B-W-3	936.66	01/17/2014	14.63	922.03	—
		02/18/2014	14.2	922.46	—
		03/17/2014	12.84	923.82	—
		04/21/2014	14.6	922.06	—
		05/20/2014	14.39	922.27	—
		06/16/2014	14.91	921.75	—
		09/15/2014	15.55	921.11	—
		12/15/2014	14.92	921.74	—
1C-W-7	935.04	01/17/2014	11.79	923.25	—
		02/18/2014	11.68	923.36	—
		03/17/2014	10.16	924.88	—
		04/21/2014	11.9	923.14	—
		05/20/2014	11.56	923.48	—
		06/16/2014	12.21	922.83	—
		09/15/2014	13.23	921.81	—
		12/15/2014	12.23	922.81	—
1C-W-8	935.7	01/17/2014	12.53	923.17	—
		02/18/2014	12.42	923.28	—
		03/17/2014	10.93	924.77	—
		04/21/2014	12.64	923.06	—
		05/20/2014	12.29	923.41	—
		06/16/2014	12.92	922.78	—
		09/15/2014	13.94	921.76	—
		12/15/2014	12.98	922.72	—

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
Former Maloney Creek Zone - East Wetland and Surrounding Area Monitoring Wells					
2A-W-10	937.93	03/17/2014	8.08	929.85	—
		06/16/2014	11.62	927.23	—
		09/15/2014	13.06	924.87	—
		12/15/2014	11.05	927.80	—
2A-W-3	934.43	03/17/2014	7.68	926.75	Heavy Trace
		06/16/2014	11.47	922.96	0.10
		09/15/2014	12.63	921.80	0.02
		12/15/2014	12.49	921.94	3.60
2A-W-5	939.47	03/17/2014	10.26	929.21	—
		06/16/2014	13.82	925.65	—
		09/15/2014	15.12	924.35	—
		12/15/2014	13.02	926.45	—
2A-W-7	937.76	03/17/2014	9.43	928.33	—
		06/16/2014	11.46	926.30	—
		09/15/2014	12.95	924.81	—
		12/15/2014	11.4	926.36	—
2A-W-9	936.58	03/17/2014	8.36	928.22	—
		06/16/2014	11.79	924.79	Light Trace
		09/15/2014	12.78	923.80	—
		12/15/2014	11.03	925.55	—
2B-W-4	931.03	03/17/2014	0.89	930.14	—
		06/16/2014	4.33	927.00	—
		09/15/2014	5.68	925.35	—
		12/15/2014	3.76	927.57	—
MW-1	939.2	03/17/2014	9.95	929.25	—
		06/16/2014	12.58	926.62	—
		09/15/2014	14.22	924.98	—
		12/15/2014	12.39	926.81	—

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
MW-10	938.34	03/17/2014	9.43	928.91	—
		06/16/2014	12.89	925.45	—
		09/15/2014	14.27	924.07	—
		12/15/2014	12.23	926.11	—
MW-11	939.2	03/17/2014	10.05	929.15	0.06
		06/16/2014	13.31	925.89	Heavy Trace
		09/15/2014	14.76	924.44	—
		12/15/2014	12.63	926.57	Heavy Trace
MW-13	936.49	03/17/2014	7.38	929.11	—
		06/16/2014	10.64	925.85	—
		09/15/2014	11.53	924.96	—
		12/15/2014	9.92	926.57	—
MW-14	936.8	03/17/2014	9.32	927.48	—
		06/16/2014	12.58	924.22	—
		09/15/2014	NM	NM	—
		12/15/2014	11.8	925.00	—
MW-15	933.32	03/17/2014	11.09	922.23	—
		06/16/2014	14.48	918.84	—
		09/15/2014	15.73	917.59	—
		12/15/2014	13.53	919.79	—
MW-18	940.68	03/17/2014	11.39	929.29	—
		06/16/2014	14.78	925.90	—
		09/15/2014	16.25	924.43	—
		12/15/2014	14.21	926.47	—
MW-2	939.2	03/17/2014	9.15	930.05	—
		6/16/2014	NM	NM	—
		09/15/2014	14.02	925.18	—
		12/15/2014	12.03	927.17	—

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
MW-3	938.03	03/17/2014	6.1	931.93	—
		06/16/2014	10.95	927.08	—
		09/15/2014	12.97	925.06	—
		12/15/2014	9.84	928.19	—
MW-4	936.95	03/17/2014	6.35	930.60	—
		06/16/2014	10.35	926.60	—
		09/15/2014	11.76	925.19	—
		12/15/2014	9.59	927.36	—
MW-40	936.95	03/17/2014	9.89	927.06	—
		06/16/2014	12.26	924.69	—
		09/15/2014	14.5	922.45	—
		12/15/2014	12.37	924.58	—
MW-5	933.36	03/17/2014	5.16	928.20	—
		06/16/2014	8.51	924.85	—
		09/15/2014	9.52	923.84	—
		12/15/2014	7.83	925.53	—
MW-7	936.89	03/17/2014	9.91	926.98	—
		06/16/2014	13.5	923.39	—
		09/15/2014	14.62	922.27	—
		12/15/2014	12.55	924.34	—
MW-9	937.53	03/17/2014	10.46	927.07	—
		06/16/2014	14.12	923.41	—
		09/15/2014	15.33	922.20	—
		12/15/2014	13.16	924.37	—

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
Hydraulic Control and Containment System Monitoring Wells					
EW-1	928.72	03/17/2014	8.52	920.20	—
		06/16/2014	10.12	918.60	—
		09/15/2014	11.15	917.57	—
		12/15/2014	10.07	918.65	—
EW-2A	936.2	03/17/2014	7.99	928.21	—
		06/16/2014	10.09	926.11	—
		09/15/2014	11.64	924.56	—
		12/15/2014	10.13	926.07	—
GW-1	928.24	03/17/2014	8.42	919.82	—
		06/16/2014	9.97	918.27	—
		09/15/2014	11.3	916.94	—
		12/15/2014	10.2	918.04	—
GW-2	930.29	03/17/2014	10.58	919.71	—
		06/16/2014	12.01	918.28	—
		09/15/2014	13.22	917.07	—
		12/15/2014	12.23	918.06	—
GW-3	935.82	03/17/2014	15.48	920.34	—
		06/16/2014	15.84	919.98	—
		09/15/2014	15.94	919.88	—
		12/15/2014	15.85	919.97	—
GW-4	934.68	03/17/2014	7.99	926.69	—
		06/16/2014	10.01	924.67	—
		09/15/2014	11.2	923.48	—
		12/15/2014	10.06	924.62	—

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
IW-01	933.49	03/17/2014	6.84	926.65	—
		09/15/2014	9.55	923.94	—
PZ-1	935.38	03/17/2014	7.56	927.82	—
		06/16/2014	9.61	925.77	—
		09/15/2014	11.05	924.33	—
		12/15/2014	9.59	925.79	—
PZ-2N	934.35	03/17/2014	9.46	924.89	—
		06/16/2014	11.59	922.76	—
		09/15/2014	12.49	921.86	—
		12/15/2014	11.82	922.53	—
PZ-2S	934.94	03/17/2014	5.98	928.96	—
		06/16/2014	9.31	925.63	—
		09/15/2014	10.61	924.33	—
		12/15/2014	8.52	926.42	—
PZ-3N	934.41	03/17/2014	13.88	920.53	—
		06/16/2014	13.99	920.42	—
		09/15/2014	13.99	920.42	—
		12/15/2014	13.91	920.50	—
PZ-3S	934.45	03/17/2014	5.58	928.87	—
		09/15/2014	NM	NM	—
PZ-4N	935.27	03/17/2014	14.71	920.56	—
		06/16/2014	14.61	920.66	—
		09/15/2014	14.58	920.69	—
		12/15/2014	14.58	920.69	—

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
PZ-4S	935.31	03/17/2014	8	927.31	—
		06/16/2014	11.59	923.72	—
		09/15/2014	12.71	922.60	—
		12/15/2014	10.51	924.80	—
PZ-5N	933.15	03/17/2014	13.4	919.75	—
		06/16/2014	14.91	918.24	—
		09/15/2014	15.53	917.62	—
		12/15/2014	15.18	917.97	—
PZ-5S	933.46	03/17/2014	11.55	921.91	4.67
		06/16/2014	12.91	920.55	2.39
		09/15/2014	11.73	921.73	Heavy Trace
		12/15/2014	9.39	924.07	0.05
PZ-6N	931.17	03/17/2014	11.46	919.71	—
		06/16/2014	12.94	918.23	—
		9/15/2014	NM	NM	
		12/15/2014	13.15	918.02	—
PZ-6S	931.41	03/17/2014	5.48	925.93	Light Trace
		06/16/2014	NM	NM	—
		09/15/2014	13.11	918.30	2.95
		12/15/2014	NM	NM	—
PZ-7N	930.37	03/17/2014	10.54	919.83	—
		06/16/2014	12.11	918.26	—
		09/15/2014	13.32	917.05	—
		12/15/2014	12.28	918.09	—
PZ-7S	930.4	03/17/2014	5.12	925.28	—
		06/16/2014	8.78	921.62	—
		09/15/2014	10.41	919.99	—
		12/15/2014	7.92	922.48	—

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
PZ-8	929.48	03/17/2014	7.9	921.58	—
		06/16/2014	10.03	919.45	—
		09/15/2014	11.14	918.34	—
		12/15/2014	9.8	919.68	—
RW-01	932.84	03/17/2014	8.51	924.33	—
		06/16/2014	9.75	923.09	—
		09/15/2014	10.75	922.09	—
		12/15/2014	9.16	923.68	—
RW-02	933.84	03/17/2014	9.48	924.36	—
		06/16/2014	10.76	923.08	—
		09/15/2014	10.99	922.85	—
		12/15/2014	10.16	923.68	—
RW-03	933.8	03/17/2014	9.44	924.36	—
		06/16/2014	10.72	923.08	Light Trace
		09/15/2014	11.73	922.07	—
		12/15/2014	10.12	923.68	—
RW-04	931.86	03/17/2014	5.74	926.12	Light Trace
		06/16/2014	9.38	922.48	Light Trace
		09/15/2014	10.45	921.41	Heavy Trace
		12/15/2014	7.6	924.26	Heavy Trace
RW-05	928.53	03/17/2014	8.28	920.25	Light Trace
		06/16/2014	10.25	918.28	Light Trace
		09/15/2014	11.13	917.40	—
		12/15/2014	9.74	918.79	—
RW-06	928.53	03/17/2014	8.19	920.34	—
		06/16/2014	10.22	918.31	Light Trace
		09/15/2014	11.12	917.41	—
		12/15/2014	9.73	918.80	—

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
RW-07	933.06	03/17/2014	5.62	927.44	Light Trace
		06/16/2014	9.47	923.59	Heavy Trace
		09/15/2014	10.59	922.47	Heavy Trace
		12/15/2014	8.23	924.83	Heavy Trace
RW-08	931.85	03/17/2014	5.1	926.75	Light Trace
		06/16/2014	9.53	922.32	0.07
		09/15/2014	10.21	921.64	—
		12/15/2014	7.43	924.42	—
RW-09	933.96	03/17/2014	7.34	926.62	—
		06/16/2014	8.8	925.16	—
		09/15/2014	10.12	923.84	—
		12/15/2014	8.7	925.26	—
Levee Zone Monitoring Wells					
5-W-14	926.59	03/17/2014	7.91	918.68	—
		06/16/2014	8.66	917.93	—
		09/15/2014	10.52	916.07	—
		12/15/2014	9.04	917.55	—
5-W-15	925.15	03/17/2014	6.0	919.15	—
		06/16/2014	7.14	918.01	—
		09/15/2014	9.02	916.13	—
		12/15/2014	7.53	917.62	—
5-W-16	925.2	03/17/2014	6.35	918.85	—
		06/16/2014	7.39	917.81	—
		09/15/2014	9.23	915.97	—
		12/15/2014	7.78	917.42	—

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
5-W-17	924.6	03/17/2014	5.69	918.91	—
		06/16/2014	6.77	917.83	—
		09/15/2014	8.6	916.00	—
		12/15/2014	7.16	917.44	—
5-W-18	924.64	03/17/2014	5.84	918.80	—
		06/16/2014	6.03	918.61	—
		09/15/2014	8.66	915.98	—
		12/15/2014	7.24	917.40	—
5-W-19	924.35	03/17/2014	5.7	918.65	—
		06/16/2014	6.69	917.66	—
		09/15/2014	8.45	915.90	—
		12/15/2014	7.56	916.79	—
Monitoring Wells Down-Gradient of the Hydraulic Control and Containment System					
1B-W-23	936.25	03/17/2014	16.38	919.87	—
		06/16/2014	16.48	919.77	—
		09/15/2014	17.58	918.67	—
		12/15/2014	17.16	919.09	—
2A-W-40	933.34	03/17/2014	10.33	923.01	—
		06/16/2014	12.19	921.15	—
		09/15/2014	13.57	919.77	—
		12/15/2014	12.12	921.22	—
2A-W-41	935.22	03/17/2014	15.41	919.81	—
		06/16/2014	16.39	918.83	—
		09/15/2014	18.15	917.07	—
		12/15/2014	17.19	918.03	—
2A-W-42	935.37	03/17/2014	11.06	924.31	—
		06/16/2014	13.02	922.35	—
		09/15/2014	13.74	921.63	—
		12/15/2014	12.99	922.38	—

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
5-W-43	925.82	03/17/2014	5.8	920.02	—
		06/16/2014	7.32	918.50	—
		09/15/2014	8.35	917.47	—
		12/15/2014	7.33	918.49	—
5-W-50	925.49	03/17/2014	5.5	919.99	—
		09/15/2014	8.86	916.63	—
5-W-51	925.08	03/17/2014	5.31	919.77	Light Trace
		09/15/2014	8.72	916.36	Heavy Trace
5-W-54	924.58	03/17/2014	5.26	919.32	—
		09/15/2014	7.92	916.66	—
5-W-55	923.92	03/17/2014	5.27	918.65	—
		09/15/2014	7.87	916.05	—
5-W-56	924.76	03/17/2014	4.94	919.82	—
		09/15/2014	8.28	916.48	—
Site-Wide Monitoring Wells					
1A-W-4	929.07	03/17/2014	7.57	921.50	—
		06/16/2014	8.89	920.18	—
		09/15/2014	10.48	918.59	—
		12/15/2014	9.03	920.04	—
1B-W-2	935.81	03/17/2014	11.81	924.00	—
		09/15/2014	14.48	921.33	—
1C-W-1	936.44	03/17/2014	11.61	924.83	—
		06/16/2014	13.43	923.01	—
		09/15/2014	14.4	922.04	—
		12/15/2014	13.62	922.82	—
1C-W-3	933.56	03/17/2014	8.78	924.78	—
		09/15/2014	11.81	921.75	—
1C-W-4	932.74	03/17/2014	8.65	924.09	—
		09/15/2014	11.06	921.68	—

Table 5
2014 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
2A-W-8	942.62	03/17/2014	11.63	930.99	—
		06/16/2014	14.86	927.76	—
		09/15/2014	16.56	926.06	—
		12/15/2014	14.65	927.97	—
MW-16	933.32	03/17/2014	11.39	921.93	—
		06/16/2014	13.65	919.67	—
		09/15/2014	14.65	918.67	—
		12/15/2014	13.43	919.89	—
MW-32	926.06	03/17/2014	7.84	918.22	—
		09/15/2014	10.29	915.77	—
MW-38R	922.39	03/17/2014	3.22	919.17	—
		06/16/2014	4.69	917.70	—
		09/15/2014	5.92	916.47	—
		12/15/2014	4.67	917.72	—
MW-47	932.61	03/17/2014	6.2	926.41	—
		06/16/2014	9.52	923.09	—
		09/15/2014	10.9	921.71	—
		12/15/2014	8.58	924.03	—
MW-48	933.9	03/17/2014	7.76	926.14	—
		06/16/2014	11.11	922.79	—
		09/15/2014	12.64	921.26	—
		12/15/2014	10.14	923.76	—
MW-49	933.14	03/17/2014	8.83	924.31	—
		06/16/2014	11.86	921.28	—
		09/15/2014	13.37	919.77	—
		12/15/2014	11.35	921.79	—

NOTES:

— denotes light nonaqueous-phase liquid (LNAPL) was not present. NM = not measured

[1] In feet above mean sea level.

[2] In feet below top of well casing.

Table 6
2014 Stabilized Groundwater Field Parameter Measurements
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	Sample Identification	Dissolved Oxygen (milligrams per liter)	Oxidation Reduction Potential (millivolts)	pH (Standard pH Units)	Specific Conductivity (mS/cm)	Temperature (degrees Celsius)	Turbidity (NTU)
Air Sparging System Monitoring Wells								
1B-W-3	01/17/2014	1B-W-3-011714	2.3	96	6.09	0.153	10.39	0.0
	02/18/2014	1B-W-3-021814	2.72	181	5.83	0.137	8.82	NM
	03/19/2014	1B-W-3-031914	4.99	114.8	6.53	0.137	6.07	IE
	04/21/2014	1B-W-3-042114	2.62	127	5.56	0.132	9.38	0.0
	05/20/2014	1B-W-3-052014	1.35	132	6.27	0.126	10.88	0.1
	06/18/2014	1B-W-3-061814	1.39	105	6.63	0.124	12.06	0.0
	09/17/2014	1B-W-3-091714	NM	87.3	6.38	0.137	11.65	0.0
	12/17/2014	1B-W-3-121714	1.98	137.9	6.3	0.145	9.29	0.0
1C-W-7	01/17/2014	1C-W-7-011714	1.87	139	5.64	0.111	9.53	0.0
	02/18/2014	1C-W-7-021814	2.52	207	5.3	0.11	6.9	NM
	03/19/2014	1C-W-7-031914	1.64	208	6.22	0.11	6.38	0.4
	04/21/2014	1C-W-7-042114	2.12	150	5.34	0.096	9.91	0.0
	05/20/2014	1C-W-7-052014	2.14	243	6.03	0.082	10.32	0.0
	06/18/2014	1C-W-7-061814	3.3	152	6.27	0.082	12.75	0.0
	09/18/2014	IC-W-7-091814	0.86	210	5.96	0.104	13.52	0.0
	12/17/2014	1C-W-7-121714	1.64	64	5.86	0.115	8.8	2.1
1C-W-8	01/17/2014	1C-W-8-011714	2.58	151	5.54	0.106	10.21	0.0
	02/18/2014	1C-W-8-021814	5.1	228	5.15	0.066	7.04	NM
	03/18/2014	1C-W-8-031814	3.49	307	6.14	0.09	6.32	0.8
	04/21/2014	1C-W-8-042114	3.29	132	5.83	0.081	11.32	3.6
	05/20/2014	1C-W-8-052014	3.64	275	6.01	0.071	15.83	0.0
	06/18/2014	1C-W-8-061814	3.08	177	6.2	0.078	16.35	0.0
	09/18/2014	IC-W-8-091814	NM	NM	NM	NM	NM	NM
	12/17/2014	1C-W-8-121714	3.58	179.7	6	0.108	9.58	0.0
Former Maloney Creek Zone - East Wetland and Surrounding Area Monitoring Wells								
2A-W-10	03/18/2014	2A-W-10-031814	5.28	199	5.37	0.094	5.7	0.9
	06/18/2014	2A-W-10-061814	0.45	115	5.43	0.083	12.14	3.6
	09/17/2014	2A-W-10-091714	0.46	108	5.86	0.131	13.67	0.0
	12/16/2014	2A-W-10-121614	0.57	151	5.25	0.133	9.15	0.9
2A-W-9	03/19/2014	2A-W-9-031914	0.65	47	6.36	0.075	4.82	3.2
	06/18/2014	2A-W-9-061814	0.41	0	6.24	0.075	11.5	8.2
	12/16/2014	2A-W-9-121614	0.41	-29	5.64	0.156	9.92	2.0
2B-W-4	03/18/2014	2B-W-4-031814	5.04	209	5.0	0.059	7.0	5.2
	06/18/2014	2B-W-4-061814	2.29	226	5.91	0.048	10.05	0.4
	09/18/2014	2B-W-4-091814	NM	160.9	6.06	0.084	13.02	0.0
	12/17/2014	2B-W-4-121714	1.8	177	5.26	0.079	9.3	0.8

Table 6
2014 Stabilized Groundwater Field Parameter Measurements
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	Sample Identification	Dissolved Oxygen (milligrams per liter)	Oxidation Reduction Potential (millivolts)	pH (Standard pH Units)	Specific Conductivity (mS/cm)	Temperature (degrees Celsius)	Turbidity (NTU)
MW-3	03/19/2014	MW-3-031914	5.43	215	5.24	0.044	5.95	0.0
	06/18/2014	MW-3-061814	0.54	79	6.03	0.058	11.75	9.8
	09/18/2014	MW-3-091814	NM	78.6	6.13	0.095	12.09	21.3
	12/16/2014	MW-3-121614	3.67	2.3	5.09	0.09	10.52	2.2
MW-4	03/18/2014	MW-4-031814	6.73	192	5.42	0.044	5.55	3.0
	06/18/2014	MW-4-061814	0.48	96	5.92	0.068	10.81	0.4
	09/18/2014	MW-4-091814	1.29	142	5.83	0.096	14.75	1.1
	12/16/2014	MW-4-121614	1.6	220	5.1	0.092	8.6	3.1
Hydraulic Control and Containment System Monitoring Wells								
EW-1	03/19/2014	EW-1-031914	2.2	231	6.22	0.105	6.53	1.0
	06/17/2014	EW-1-061714	1.62	229	5.71	0.084	11.01	0.0
	09/16/2014	EW-1-091614	0.089	189.8	6.3	0.086	12.81	0.0
	12/16/2014	EW-1-121614	0.71	200.2	6	0.109	10.17	0.0
EW-2A	03/18/2014	EW-2A-031814	5.95	108.5	5.93	0.074	6.1	IE
	06/18/2014	EW-2A-061814	3.03	246	5.94	0.066	8.69	0.0
	09/18/2014	EW-2A-091814	NM	157.3	5.93	0.072	10.41	0.0
	12/16/2014	EW-2A-121614	2.32	64	5.44	0.088	9.77	1.1
GW-1	03/19/2014	GW-1-031914	2.5	181	5.93	0.132	8.0	0.4
	06/17/2014	GW-1-061714	0.81	145	6.64	0.112	13.8	5.1
	09/16/2014	GW-1-091614	0.3	82	6.54	0.127	19.09	0.0
	12/16/2014	GW-1-121614	0.55	19	6.1	0.157	9.95	6.0
GW-2	03/19/2014	GW-2-031914	3.11	74	6.54	0.1	6.27	8.5
	06/17/2014	GW-2-061714	0.61	70.3	NM	111	9.39	0.0
	09/16/2014	GW-2-091614	0.44	-17	6.07	0.116	17.71	28.6
	12/16/2014	GW-2-121614	0.41	66.8	6.16	0.143	9.73	0.0
GW-3	03/19/2014	GW-3-031914	1.12	108	6.04	0.084	9.87	7.9
	06/17/2014	GW-3-061714	1.7	61	NM	0.09	9.63	0.0
	09/17/2014	GW-3-091714	1.5	185	6.44	0.152	13.67	17.1
	12/17/2014	GW-3-121714	2.02	151.1	6.19	0.094	8.35	9.5
GW-4	03/18/2014	GW-4-031814	6.5	107.2	6.71	0.099	7.19	0.5
	06/18/2014	GW-4-061814	2.48	151	6.36	0.075	13.81	1.2
	09/18/2014	GW-4-091814	2.65	250	5.68	0.078	12.44	0.6
	12/16/2014	GW-4-121614	1.29	41	5.89	0.126	9.17	1.2

Table 6
2014 Stabilized Groundwater Field Parameter Measurements
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	Sample Identification	Dissolved Oxygen (milligrams per liter)	Oxidation Reduction Potential (millivolts)	pH (Standard pH Units)	Specific Conductivity (mS/cm)	Temperature (degrees Celsius)	Turbidity (NTU)
Levee Zone Monitoring Wells								
5-W-14	03/20/2014	5-W-14-032014	3.74	83	6.36	0.09	9.5	0.0
	06/17/2014	5-W-14-061714	2.82	196	6.45	0.089	10.37	0.0
	09/16/2014	5-W-14-091614	2.49	149	6.07	0.081	14.18	0.0
	12/16/2014	5-W-14-121614	6.18	IE	6.41	0.081	7.05	0.0
5-W-15	03/20/2014	5-W-15-032014	0.55	-9.8	6.63	0.211	8.53	18.0
	06/17/2014	5-W-15-061714	1.5	-120	7.1	0.189	12.15	IE
	09/16/2014	5-W-15-091614	0.82	-54.8	7.24	0.223	11.84	3.8
	12/16/2014	5-W-15-121614	0.39	-9.6	6.93	0.183	8.94	IE
5-W-16	03/20/2014	5-W-16-032014	3.37	140	6.31	0.117	8.54	4.2
	06/17/2014	5-W-16-061714	2.79	138	6.76	0.097	10.16	4.2
	09/16/2014	5-W-16-091614	4.19	260	5.39	0.092	15.95	0.0
	12/16/2014	5-W-16-121614	5.96	146.8	6.83	0.124	7.16	5.0
5-W-17	03/20/2014	5-W-17-032014	3.16	17	6.31	0.087	9.31	0.0
	06/17/2014	5-W-17-061714	2.7	177	6.36	0.089	9.69	0.0
	09/16/2014	5-W-17-091614	2.52	167	5.74	0.081	12.61	0.0
	12/16/2014	5-W-17-121614	5.2	176.1	6.47	0.089	7.83	0.0
5-W-18	03/18/2014	5-W-18-031814	2.77	108.8	6.78	0.178	6.74	3.2
	06/17/2014	5-W-18-061714	0.71	121	6.7	0.162	10.28	1.2
	09/16/2014	5-W-18-091614	1.29	80.3	6.86	0.17	12.92	1.0
	12/16/2014	5-W-18-121614	0.58	161.4	6.6	0.2	8.39	2.1
5-W-19	03/20/2014	5-W-19-032014	3.6	166	5.89	0.086	8.9	0.0
	06/17/2014	5-W-19-061714	3.25	224	6.36	0.078	9.47	0.7
	09/16/2014	5-W-19-091614	0.76	192	5.65	0.091	17.04	0.2
	12/16/2014	5-W-19-121614	4.27	962.5	6.15	0.076	6.85	0.04
Monitoring Wells Down-Gradient of the Hydraulic Control and Containment System								
1B-W-23	03/19/2014	1B-W-23-031914	7.63	207	6.83	0.058	5.18	15.9
	06/17/2014	1B-W-23-061714	5.03	152	6.62	0.099	15.59	IE
	09/17/2014	IB-W-23-091714	NM	123.7	6.32	0.134	14.41	23.2
	12/17/2014	1B-W-23-121714	9.42	203.7	6.21	0.077	9.36	IE
2A-W-40	03/19/2014	2A-W-40-031914	4.14	178	6.68	0.063	6.6	5.7
	06/17/2014	2A-W-40-061714	6.9	71.5	NM	0.067	8.91	0.0
	09/17/2014	2A-W-40-091714	2.8	162	6.56	0.058	12.37	0.0
	12/17/2014	2A-W-40-121714	3.34	172	5.79	0.068	8.39	0.9
2A-W-41	03/19/2014	2A-W-41-031914	4.27	100	5.65	0.085	8.81	0.3
	06/17/2014	2A-W-41-061714	5.09	160	6.02	0.086	12.23	3.1
	09/17/2014	2A-W-41-091714	2.3	-4	6.26	0.126	13.57	0.0
	12/17/2014	2A-W-41-121714	3.52	16	6.11	0.138	8.09	4.4

Table 6
2014 Stabilized Groundwater Field Parameter Measurements
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	Sample Identification	Dissolved Oxygen (milligrams per liter)	Oxidation Reduction Potential (millivolts)	pH (Standard pH Units)	Specific Conductivity (mS/cm)	Temperature (degrees Celsius)	Turbidity (NTU)
2A-W-42	03/19/2014	2A-W-42-031914	6.37	118.9	6.11	0.147	6.51	IE
	06/17/2014	2A-W-42-061714	0.79	133	6.13	0.134	10.17	2.5
	09/17/2014	2A-W-42-091714	NM	131.9	6.11	0.157	13.7	0.0
	12/17/2014	2A-W-42-121714	1.73	172.3	6.06	0.151	9.48	0.0
5-W-50	03/18/2014	5-W-50-031814	6.05	109.7	6.55	0.067	4.76	0.8
	09/16/2014	5-W-50-091614	NM	-213.5	6.74	0.303	15.33	0.0
5-W-54	03/18/2014	5-W-54-031814	6.09	163	6.09	0.074	9.76	0.0
	09/16/2014	5-W-54-091614	0.76	192	5.65	0.091	17.04	0.2
5-W-55	03/18/2014	5-W-55-031814	1.69	140	6.36	0.09	10.59	0.3
	09/16/2014	5-W-55-091614	1.01	188	5.53	0.097	17.8	5.0
5-W-56	03/18/2014	5-W-56-031814	0.74	-81	6.85	0.486	9.53	63.4
	09/16/2014	5-W-56-091614	1.3	-153.1	6.87	1.036	16.02	8.1
Site-Wide Monitoring Wells								
1A-W-4	03/19/2014	1A-W-4-031914	4.8	177	6.32	0.083	8.96	0.0
	09/17/2014	1A-W-4-091714	3.02	95	6.64	0.074	14.12	0.0
1B-W-2	03/19/2014	1B-W-2-031914	4.04	233	6.14	0.084	6.48	2.3
	09/17/2014	1B-W-2-091714	1.03	155	6.24	0.207	17.63	1.6
1C-W-1	03/18/2014	1C-W-1-031814	6.26	114.5	6.04	0.101	6.37	IE
	06/18/2014	1C-W-1-061814	4.04	176	6.2	0.071	13.04	0.0
	09/18/2014	IC-W-1-091814	2.07	106	6.05	0.082	13.27	0.0
1C-W-3	03/18/2014	1C-W-3-031814	5.74	2.4	5.86	0.071	5.76	2.4
	09/18/2014	1C-W-3-091814	2.54	183	6.06	0.082	14.87	IE
1C-W-4	03/18/2014	1C-W-4-031814	2.6	306	6.01	0.072	7.44	0.6
	09/18/2014	1C-W-4-091814	3.05	190	5.9	0.077	14.0	0.8
5-W-43	03/19/2014	5-W-43-031914	2.09	178	5.79	0.105	7.99	0.0
	06/17/2014	5-W-43-061714	2.28	247	5.35	0.092	11.29	1.1
	09/16/2014	5-W-43-091614	1.39	237	4.97	0.083	17.69	2.3
	12/16/2014	5-W-43-121614	0.79	181.9	6.05	0.112	9.87	0.0
MW-16	03/19/2014	MW-16-031914	6.39	226	5.1	0.062	7.09	0.0
	09/18/2014	MW-16-091814	NM	155.8	5.97	0.09	12.31	4.1
MW-38R	03/20/2014	MW-38R-032014	0.75	180	5.41	0.098	9.3	0.0
	09/16/2014	MW-38R-091614	0.33	97	5.96	0.086	13.65	0.0

NOTES:

IE = instrument error

mS/cm = milliSiements per centimeter

NM = not measured

NTU = nephelometric turbidity units

Table 7
2014 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µ/l)
		Result	MDL	MRL	Result	MDL	MRL	
Air Sparging System Monitoring Wells								
1B-W-3	01/17/2014	37	14	24	37 J	9.3	48	74
	02/18/2014	32	14	24	< 55	55	55	59.5
	03/19/2014	35	14	24	45 J	9.3	47	80
	04/21/2014	34	14	24	44	9.3	48	78
	05/20/2014	47	14	24	55	9.3	48	102
	06/18/2014	39	14	24	39 J	9.3	48	78
	09/17/2014	< 23 J	23	23	< 33 J	33	33	< 28
	12/17/2014	74	14	24	58	9.3	47	132
1C-W-7	01/17/2014	190	14	24	110	9.3	47	300
	02/18/2014	160	14	24	130 J	9.3	47	290
	03/19/2014	180	14	24	130	9.4	48	310
	04/21/2014	100	14	24	79	9.3	48	179
	05/20/2014	100	14	24	78	9.3	48	178
	06/18/2014	49	14	24	35 J	9.3	48	84
	09/18/2014	65	14	24	< 43 J	43	43	86.5
	12/17/2014	74	14	24	67	9.3	48	141
1C-W-8	01/17/2014	210	14	24	150	9.3	47	360
	02/18/2014	250	14	24	210	9.3	47	460
	03/18/2014	190	14	24	160	9.3	47	350
	04/21/2014	110	14	24	90	9.3	47	200
	05/20/2014	89	14	24	82	9.3	47	171
	06/18/2014	50	14	24	30 J	9.3	48	80
	09/18/2014	28	14	24	< 31 J	31	31	43.5
	12/17/2014	71	14	24	76	9.3	48	147

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2014 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µ/l)
		Result	MDL	MRL	Result	MDL	MRL	
Former Maloney Creek Zone - East Wetland and Surrounding Area Monitoring Wells								
2A-W-10	03/18/2014	190	14	24	660	9.3	47	**850**
	06/18/2014	190	14	24	300	9.3	48	**490**
	09/17/2014	100	14	24	200	9.3	48	300
	12/16/2014	180	14	24	480	9.3	47	**660**
2A-W-9	03/19/2014	610	14	24	350	9.4	48	**960**
	06/18/2014	390	14	24	230	9.3	47	**620**
	12/16/2014	940	14	24	370	9.3	47	**1,310**
2B-W-4	03/18/2014	< 14	14	24	20 J	9.3	47	27
	06/18/2014	< 14	14	24	9.3 J	9.3	47	16.3
	09/18/2014	< 14	14	24	< 15 J	15	15	< 14.5
	12/17/2014	< 14	14	24	9.3 J	9.3	48	16.3
MW-3	03/19/2014	37	14	24	75	9.3	48	112
	06/18/2014	35	14	24	62	9.3	47	97
	09/18/2014	21 J	14	24	< 49	49	49	45.5
	12/16/2014	45	14	24	100	9.3	47	145
MW-4	03/18/2014	82	14	24	260	9.3	48	342
	06/18/2014	84	14	24	120	9.3	47	204
	09/18/2014	110	14	24	140	9.3	47	250
	12/16/2014	130	14	24	250	9.3	48	380
Hydraulic Control and Containment System Monitoring Wells								
EW-1	03/19/2014	38	14	24	72	9.3	48	110
	06/17/2014	23 J	14	24	32 J	9.3	47	55
	09/16/2014	31	14	24	< 38 J	38	38	50
	12/16/2014	39	14	24	66	9.3	48	105

Table 7
2014 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µ/l)
		Result	MDL	MRL	Result	MDL	MRL	
EW-2A	03/18/2014	39	14	24	73	9.3	48	112
	06/18/2014	17 J	14	24	29 J	9.3	47	46
	09/18/2014	< 14	14	24	< 17 J	17	17	< 15.5
	12/16/2014	27	14	24	44 J	9.3	47	71
GW-1	03/19/2014	54	14	24	97	9.3	48	151
	06/17/2014	35	14	24	56	9.3	47	91
	09/16/2014	26	14	24	< 44 J	44	44	48
	12/16/2014	82	14	24	100	9.3	48	182
GW-2	03/19/2014	94	14	24	180	9.4	48	274
	06/17/2014	28	14	24	19 J	9.3	47	47
	09/16/2014	57	14	24	< 36 J	36	36	75
	12/16/2014	78	14	24	48	9.3	48	126
GW-3	03/19/2014	39	14	24	35 J	9.4	48	74
	06/17/2014	69	14	24	41 J	9.3	48	110
	09/17/2014	300	14	24	140	9.3	47	440
	12/17/2014	110	14	24	77	9.3	47	187
GW-4	03/18/2014	42	14	24	82	9.4	48	124
	06/18/2014	< 14	14	24	14 J	9.3	48	21
	09/18/2014	28	14	24	< 37 J	37	37	46.5
	12/16/2014	32	14	24	44 J	9.3	47	76
S1-AD	03/17/2014	< 14	14	24	< 10	10	10	< 12
	09/17/2014	< 14	14	24	< 19 J	19	19	< 16.5
S1-AU	03/17/2014	< 14	14	24	< 13	13	13	< 13.5
	09/17/2014	< 14	14	24	< 23 J	23	23	< 18.5
S1-BD	03/17/2014	18 J	14	24	< 28	28	28	32
	09/17/2014	< 14	14	24	< 14 J	14	14	< 14

Table 7
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BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µ/l)
		Result	MDL	MRL	Result	MDL	MRL	
S1-BU	03/17/2014	< 14	14	24	< 27	27	27	< 20.5
	09/17/2014	< 14	14	24	< 22 J	22	22	< 18
S2-AD	03/17/2014	14 J	14	24	< 16	16	16	22
	09/17/2014	< 14	14	24	< 17 J	17	17	< 15.5
S2-AU	03/17/2014	< 14	14	24	< 11	11	11	< 12.5
	09/17/2014	< 14	14	24	< 16 J	16	16	< 15
S2-BD	03/17/2014	25	14	24	< 21	21	21	35.5
	09/17/2014	< 14	14	24	< 15 J	15	15	< 14.5
S2-BU	03/17/2014	19 J	14	24	< 19	19	19	28.5
	09/17/2014	27	14	24	< 22 J	22	22	38
S3-AD	03/18/2014	< 14	14	24	< 12	12	12	< 13
	09/17/2014	14 J	14	24	< 11 J	11	11	19.5
S3-AU	03/18/2014	< 14	14	24	< 10	10	10	< 12
	09/17/2014	23 J	14	24	< 15 J	15	15	30.5
S3-BD	03/18/2014	< 14	14	24	< 9.3	9.3	48	< 11.65
	09/17/2014	17 J	14	24	< 13 J	13	13	23.5
S3-BU	03/18/2014	18 J	14	24	< 19	19	19	27.5
	09/17/2014	20 J	14	24	< 15 J	15	15	27.5
S3-CD	03/18/2014	< 14	14	24	< 14	14	14	< 14
	09/17/2014	< 14	14	24	< 10 J	10	10	< 12
S3-CU	03/18/2014	< 14	14	24	< 9.7	9.7	10	< 11.85
	09/17/2014	< 14	14	24	< 11 J	11	11	< 12.5
S4-AD	03/18/2014	< 14	14	24	< 11	11	11	< 12.5
	09/17/2014	22 J	14	24	< 26 J	26	26	35
S4-AU	03/18/2014	19 J	14	24	< 19	19	19	28.5
	09/17/2014	19 J	14	24	< 12 J	12	12	25

Table 7
2014 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µ/l)
		Result	MDL	MRL	Result	MDL	MRL	
S4-BD	03/18/2014	< 14	14	24	< 12	12	12	< 13
	09/17/2014	18 J	14	24	< 19 J	19	19	27.5
S4-BU	03/18/2014	23 J	14	24	< 31	31	31	38.5
	09/17/2014	< 21 J	21	21	< 46 J	46	46	< 33.5
S4-CD	03/18/2014	< 14	14	24	< 14	14	14	< 14
	09/17/2014	< 16 J	16	16	< 17 J	17	17	< 16.5
S4-CU	03/18/2014	97	14	24	< 51	51	51	122.5
	09/17/2014	< 19 J	19	19	< 22 J	22	22	< 20.5
Levee Zone Monitoring Wells								
5-W-14	03/20/2014	< 14	14	24	< 9.3	9.3	47	< 11.65
	06/17/2014	< 14	14	24	< 9.3	9.3	47	< 11.65
	09/16/2014	< 15 J	15	15	< 17 J	17	17	< 16
	12/16/2014	< 14	14	24	< 9.3	9.3	47	< 11.65
5-W-15	03/20/2014	390	14	24	290	9.3	48	**680**
	06/17/2014	180	14	24	170	9.3	47	**350**
	09/16/2014	340	14	24	250	9.3	47	**590**
	12/16/2014	170	14	24	200	9.3	48	**370**
5-W-16	03/20/2014	23 J	14	24	26 J	9.3	48	49
	06/17/2014	19 J	14	24	16 J	9.3	47	35
	09/16/2014	< 22 J	22	22	< 26 J	26	26	< 24
	12/16/2014	21 J	14	24	21 J	9.3	47	42
5-W-17	03/20/2014	< 14	14	24	9.9 J	9.3	47	16.9
	06/17/2014	< 14	14	24	< 9.3	9.3	48	< 11.65
	09/16/2014	< 14 J	14	14	< 16 J	16	16	< 15
	12/16/2014	< 14	14	24	< 9.3	9.3	47	< 11.65

Table 7
2014 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µ/l)
		Result	MDL	MRL	Result	MDL	MRL	
5-W-18	03/18/2014	100	14	24	130	9.4	48	**230**
	06/17/2014	87	14	24	110	9.3	47	197
	09/16/2014	< 75	75	75	< 69	69	69	< 72
	12/16/2014	95	14	24	140	9.3	47	**235**
5-W-19	03/20/2014	< 14	14	24	< 9.3	9.3	48	< 11.65
	06/17/2014	< 14	14	24	< 9.3	9.3	48	< 11.65
	09/16/2014	< 14	14	24	< 17 J	17	17	< 15.5
	12/16/2014	< 14	14	24	< 9.3	9.3	47	< 11.65
Monitoring Wells Down-Gradient of the Hydraulic Control and Containment System								
1B-W-23	03/19/2014	24	14	24	36 J	9.3	48	60
	06/17/2014	77	14	24	150	9.3	48	227
	09/17/2014	45	14	24	93 J	9.3	47	138
	12/17/2014	21 J	14	24	49	9.3	48	70
2A-W-40	03/19/2014	< 14	14	24	11 J	9.3	48	18
	06/17/2014	< 14 J	14	24	< 19 J	19	19	< 16.5
	09/17/2014	< 14	14	24	< 12 J	12	12	< 13
	12/17/2014	20 J	14	24	< 9.3	9.3	48	24.65
2A-W-41	03/19/2014	61	14	24	55	9.3	48	116
	06/17/2014	37	14	24	19 J	9.3	47	56
	09/17/2014	160	14	24	120 J	9.3	47	280
	12/17/2014	160	14	24	130	9.3	47	290
2A-W-42	03/19/2014	110	14	24	150	9.4	48	260
	06/17/2014	74	14	24	55	9.3	48	129
	09/17/2014	140	14	24	110 J	9.3	47	250
	12/17/2014	120	14	24	97	9.3	48	217

Table 7
2014 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µ/l)
		Result	MDL	MRL	Result	MDL	MRL	
5-W-43	03/19/2014	43	14	24	87	9.3	48	130
	06/17/2014	< 14	14	24	20 J	9.3	47	27
	09/16/2014	< 19 J	19	19	< 24 J	24	24	< 21.5
	12/16/2014	30	14	24	56	9.4	48	86
5-W-50	03/18/2014	520	14	24	630	9.3	48	**1,150**
	09/16/2014	1,200	14	24	520	9.3	48	**1,720**
5-W-54	03/18/2014	23 J	14	24	53	9.3	47	76
	09/16/2014	< 37	37	37	< 42 J	42	42	< 39.5
5-W-55	03/18/2014	250	14	24	210	9.3	47	460
	09/16/2014	94 J	14	24	85 J	9.3	47	179
5-W-56	03/18/2014	1,700	14	24	1,800	9.4	48	**3,500**
	09/16/2014	910	14	24	1,300	9.3	47	**2,210**
Site-Wide Monitoring Wells								
1A-W-4	03/19/2014	< 14	14	24	< 9.3	9.3	47	< 11.65
	09/17/2014	< 20 J	20	20	< 24 J	24	24	< 22
1B-W-2	03/19/2014	29	14	24	79	9.4	48	108
	09/17/2014	< 66	66	66	< 74	74	74	< 70
1C-W-1	03/18/2014	66	14	24	100	9.4	48	166
	06/18/2014	15 J	14	24	17 J	9.3	47	32
	09/18/2014	32	14	24	< 33 J	33	33	48.5
1C-W-3	03/18/2014	22 J	14	24	39 J	9.3	48	61
	09/18/2014	< 22 J	22	22	< 22 J	22	22	< 22
1C-W-4	03/18/2014	240	14	24	180	9.3	48	420
	09/18/2014	< 44	44	44	< 35 J	35	35	< 39.5

Table 7
2014 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µ/l)
		Result	MDL	MRL	Result	MDL	MRL	
MW-16	03/19/2014	24	14	24	40 J	9.3	47	64
	09/18/2014	15 J	14	24	< 9.4	9.4	48	19.7
MW-38R	03/20/2014	59	14	24	71	9.3	48	130
	09/16/2014	51	14	24	34 J	9.3	47	85

NOTES:

Bold denotes concentration exceeds 208 ug/l NWTPH-Dx cleanup level (Levee Zone) or exceeds 477 ug/l TPH remediation level (all zones except Levee Zone).

< denotes analyte not detected at or exceeding the laboratory method detection limit listed.

[1]Analyzed by Northwest Method NWTPH-Dx

[2]The total NWTPH-Dx calculation uses one-half the MDL for non-detectable concentrations to derive the sum of the DRO and ORO results obtained using the NWTPH-Dx analytical method. If either the DRO or the ORO concentration was reported as a detect, then the calculated Total TPH concentration is indicated as a detect. If both DRO and ORO concentrations were reported as non-detects, then the calculated Total TPH concentration is indicated as a non-detect. Note that in some instances, data validation resulted in additional data qualification and/or updates to laboratory data. If, for example, data validation caused an update to a non-detect result value because of lab blank contamination and the data validator concluded that the result should be non-detect instead of detect, the laboratory-given method detection limit and reporting limit were updated to match the validated non-detect result value.

J = The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

MDL = laboratory-specified method detection limit

MRL = laboratory-specified method reporting limit

µg/l = micrograms per liter

DRO = total petroleum hydrocarbons as diesel-range organics

ORO = total petroleum hydrocarbons as oil-range organics

< J = The material was analyzed for but not detected. The associated value is an estimate and may be inaccurate or imprecise.

APPENDIX A
LABORATORY ANALYTICAL REPORTS
(PROVIDED ON CD IN PRINT REPORT)

2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

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: 580-42035-1
Client Project/Site: BNSF Skykomish Ground Water

For:
Farallon Consulting LLC
975 5th Avenue NW
Suite 100
Issaquah, Washington 98027

Attn: Gerald Portele

Kristine D. Allen

Authorized for release by:
1/27/2014 12:05:25 PM

Kristine Allen, Manager of Project Management
(253)922-2310
kristine.allen@testamericainc.com

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Case Narrative

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

TestAmerica Job ID: 580-42035-1

Job ID: 580-42035-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 1/22/2014 4:10 PM. The temperature of the cooler at receipt was 6.7º C.

Except:

The following samples were received at the laboratory outside the required temperature criteria: 1B-W-3-011714 (580-42035-1), 1C-W-70-011714 (580-42035-3), 1C-W-7-011714 (580-42035-2), 1C-W-8-011714 (580-42035-4). Temperature at receipt was 6.7°C. Samples were received with melted ice.

The chain of custody (COC) was not signed, dated as relinquished by the client.

GC Semi VOA - Method(s) NWTPH-Dx
In analytical batch 152626, for the following sample(s) from preparation batch 152567: 1B-W-3-011714 (580-42035-1), the results in the #2 Diesel Fuel (C10-C24) range(s) are due to what most closely resembles a complex mixture of a mineral/transformer oil range product and possible biogenic interference; method 3630 silica gel cleanup procedure is recommended. The affected analyte range(s) have been Y qualified and reported.

In analytical batch 152626, for the following sample(s) from preparation batch 152567: 1C-W-70-011714 (580-42035-3), 1C-W-7-011714 (580-42035-2), 1C-W-8-011714 (580-42035-4), the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) range(s) are due to what most closely resembles a complex mixture of a mineral/transformer oil range product and possible biogenic interference; method 3630 silica gel cleanup procedure is recommended. The affected analyte range(s) have been Y qualified and reported.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Definitions/Glossary

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

TestAmerica Job ID: 580-42035-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-42035-1

Client Sample ID: 1B-W-3-011714
Date Collected: 01/17/14 11:29
Date Received: 01/22/14 16:10

Lab Sample ID: 580-42035-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.037	Y	0.024	0.014	mg/L		01/23/14 10:27	01/24/14 12:54	1
Motor Oil (>C24-C36)	0.037	J	0.048	0.0093	mg/L		01/23/14 10:27	01/24/14 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*01/23/14 10:27*	*01/24/14 12:54*	*1*

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

TestAmerica Job ID: 580-42035-1

Client Sample ID: 1C-W-7-011714
Date Collected: 01/17/14 12:45
Date Received: 01/22/14 16:10

Lab Sample ID: 580-42035-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.19	Y	0.024	0.014	mg/L		01/23/14 10:27	01/24/14 13:12	1
Motor Oil (>C24-C36)	0.11	Y	0.047	0.0093	mg/L		01/23/14 10:27	01/24/14 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*01/23/14 10:27*	*01/24/14 13:12*	*1*

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

TestAmerica Job ID: 580-42035-1

Client Sample ID: 1C-W-70-011714
Date Collected: 01/17/14 12:50
Date Received: 01/22/14 16:10

Lab Sample ID: 580-42035-3
Matrix: Water

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	Y	0.024	0.014	mg/L		01/23/14 10:27	01/24/14 13:30	1
Motor Oil (>C24-C36)	0.11	Y	0.047	0.0093	mg/L		01/23/14 10:27	01/24/14 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*01/23/14 10:27*	*01/24/14 13:30*	*1*

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

TestAmerica Job ID: 580-42035-1

Client Sample ID: 1C-W-8-011714
Date Collected: 01/17/14 13:36
Date Received: 01/22/14 16:10

Lab Sample ID: 580-42035-4
Matrix: Water

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	Y	0.024	0.014	mg/L		01/23/14 10:27	01/24/14 13:48	1
Motor Oil (>C24-C36)	0.15	Y	0.047	0.0093	mg/L		01/23/14 10:27	01/24/14 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*01/23/14 10:27*	*01/24/14 13:48*	*1*

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

TestAmerica Job ID: 580-42035-1

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

Lab Sample ID: MB 580-152567/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 152626 — **Prep Batch: 152567**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		01/23/14 10:27	01/24/14 12:01	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		01/23/14 10:27	01/24/14 12:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*01/23/14 10:27*	*01/24/14 12:01*	*1*

Lab Sample ID: LCS 580-152567/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 152626 — **Prep Batch: 152567**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			0.500	0.484		mg/L		97	70 - 140		
Motor Oil (>C24-C36)			0.500	0.498		mg/L		100	66 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*102*		*50 - 150*

Lab Sample ID: LCSD 580-152567/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 152626 — **Prep Batch: 152567**

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	70 - 140	3	27
Motor Oil (>C24-C36)			0.500	0.504		mg/L		101	66 - 125	1	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*100*		*50 - 150*

Lab Chronicle

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

TestAmerica Job ID: 580-42035-1

Client Sample ID: 1B-W-3-011714

Lab Sample ID: 580-42035-1

Date Collected: 01/17/14 11:29

Matrix: Water

Date Received: 01/22/14 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			152567	01/23/14 10:27	ALC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	152626	01/24/14 12:54	EKK	TAL SEA

Client Sample ID: 1C-W-7-011714

Lab Sample ID: 580-42035-2

Date Collected: 01/17/14 12:45

Matrix: Water

Date Received: 01/22/14 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			152567	01/23/14 10:27	ALC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	152626	01/24/14 13:12	EKK	TAL SEA

Client Sample ID: 1C-W-70-011714

Lab Sample ID: 580-42035-3

Date Collected: 01/17/14 12:50

Matrix: Water

Date Received: 01/22/14 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			152567	01/23/14 10:27	ALC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	152626	01/24/14 13:30	EKK	TAL SEA

Client Sample ID: 1C-W-8-011714

Lab Sample ID: 580-42035-4

Date Collected: 01/17/14 13:36

Matrix: Water

Date Received: 01/22/14 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			152567	01/23/14 10:27	ALC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	152626	01/24/14 13:48	EKK	TAL SEA

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 580-42035-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

Sample Summary

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

TestAmerica Job ID: 580-42035-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42035-1	1B-W-3-011714	Water	01/17/14 11:29	01/22/14 16:10
580-42035-2	1C-W-7-011714	Water	01/17/14 12:45	01/22/14 16:10
580-42035-3	1C-W-70-011714	Water	01/17/14 12:50	01/22/14 16:10
580-42035-4	1C-W-8-011714	Water	01/17/14 13:36	01/22/14 16:10

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory:
Project Manager:
Address:
Phone:
City/State/ZIP:
Fax:

LAB WORK ORDER: 42035

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: SKYKOMISH
BNSF Project Name: BNSF SKYKOMISH GROUNDWATER
BNSF Contact: BRUCE SHEPPARD
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON CONSULTING
Address: 975 5TH AVE NW
City/State/ZIP: ISSAQUAH, WA 98027
Project Number: 683-043
Project Manager: JERRY PORTELE
Email: JPORTELE@FARALLONCONSULTING.COM
Phone: (425) 295-0839
Fax: (425) 295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

METHODS FOR ANALYSIS

NWTPH-DX

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	NWTPH-DX	COMMENTS	LAB USE
1	1B-W-3-011714	2	1/17/14	1129	JC	N	G	W	X		
2	1C-W-7-011714	↓	↓	1245	↓	↓	↓	↓	X		
3	1C-W-70-011714	↓	↓	1250	↓	↓	↓	↓	X		
4	1C-W-8-011714	↓	↓	1336	↓	↓	↓	↓	X		
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

580-42035 Chain of Custody

JC

AL 6.7 6°C
LG BLU WH
ICE BUBBLE
W/O LAB COURIER

Relinquished By:	Date/Time:	Received By:	Date/Time: TA SEA	Comments and Special Analytical Requirements:
Relinquished By:	Date/Time:	Received By:	Date/Time: 1-22-14	
Relinquished By:	Date/Time:	Received By:	Date/Time: 16:10	
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No	Custody Seal No.: / BNSF COC No.:

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (06/08)

1/22/2014

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-42035-1

Login Number: 42035

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
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.	False	COC not relinquished.
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.	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	

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: 580-42413-1
Client Project/Site: BNSF Skykomish Ground Water

For:
Farallon Consulting LLC
975 5th Avenue NW
Suite 100
Issaquah, Washington 98027

Attn: Gerald Portele

Kristine D. Allen

Authorized for release by:
2/25/2014 3:40:41 PM

Kristine Allen, Manager of Project Management
(253)922-2310
kristine.allen@testamericainc.com

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Case Narrative

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

TestAmerica Job ID: 580-42413-1

Job ID: 580-42413-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 2/20/2014 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5º C.

GC Semi VOA - Method(s) NWTPH-Dx
In analytical batch 154192, the method blank for preparation batch 154113 contained Motor Oil (>C24-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

In analytical batch 154192, for the following sample(s) from preparation batch 154113: 1B-W-3-021814 (580-42413-1), 1C-W-70-021814 (580-42413-3), 1C-W-7-021814 (580-42413-2), 1C-W-8-021814 (580-42413-4), the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges are due to what most closely resembles a complex mixture of heavily weathered/degraded diesel fuel, a mineral/transformer oil range product and possible biogenic interference; method 3630 silica gel cleanup procedure is recommended. The affected analyte range(s) have been Y qualified and reported.

No other analytical or quality issues were noted.

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: 580-42413-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-42413-1

Client Sample ID: 1B-W-3-021814
Date Collected: 02/18/14 13:14
Date Received: 02/20/14 14:00

Lab Sample ID: 580-42413-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.032	Y	0.024	0.014	mg/L		02/24/14 10:28	02/25/14 12:26	1
Motor Oil (>C24-C36)	0.055	B Y	0.047	0.0093	mg/L		02/24/14 10:28	02/25/14 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*02/24/14 10:28*	*02/25/14 12:26*	*1*

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

TestAmerica Job ID: 580-42413-1

Client Sample ID: 1C-W-7-021814
Date Collected: 02/18/14 14:14
Date Received: 02/20/14 14:00

Lab Sample ID: 580-42413-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.16	Y	0.024	0.014	mg/L		02/24/14 10:28	02/25/14 12:42	1
Motor Oil (>C24-C36)	0.13	B Y	0.047	0.0093	mg/L		02/24/14 10:28	02/25/14 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*02/24/14 10:28*	*02/25/14 12:42*	*1*

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

TestAmerica Job ID: 580-42413-1

Client Sample ID: 1C-W-70-021814
Date Collected: 02/18/14 14:19
Date Received: 02/20/14 14:00

Lab Sample ID: 580-42413-3
Matrix: Water

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	Y	0.024	0.014	mg/L		02/24/14 10:28	02/25/14 12:57	1
Motor Oil (>C24-C36)	0.14	B Y	0.047	0.0093	mg/L		02/24/14 10:28	02/25/14 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*02/24/14 10:28*	*02/25/14 12:57*	*1*

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

TestAmerica Job ID: 580-42413-1

Client Sample ID: 1C-W-8-021814
Date Collected: 02/18/14 15:18
Date Received: 02/20/14 14:00

Lab Sample ID: 580-42413-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.25	Y	0.024	0.014	mg/L		02/24/14 10:28	02/25/14 13:13	1
Motor Oil (>C24-C36)	0.21	B Y	0.047	0.0093	mg/L		02/24/14 10:28	02/25/14 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*02/24/14 10:28*	*02/25/14 13:13*	*1*

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

Lab Sample ID: MB 580-154113/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 154192 — **Prep Batch: 154113**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		02/24/14 10:09	02/25/14 08:01	1
Motor Oil (>C24-C36)	0.0157	J	0.050	0.0098	mg/L		02/24/14 10:09	02/25/14 08:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*02/24/14 10:09*	*02/25/14 08:01*	*1*

Lab Sample ID: LCS 580-154113/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 154192 — **Prep Batch: 154113**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			0.500	0.492		mg/L		98	70 - 140		
Motor Oil (>C24-C36)			0.500	0.596		mg/L		119	66 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*98*		*50 - 150*

Lab Sample ID: LCSD 580-154113/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 154192 — **Prep Batch: 154113**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.475		mg/L		95	70 - 140	3	27
Motor Oil (>C24-C36)			0.500	0.564		mg/L		113	66 - 125	6	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*95*		*50 - 150*

Lab Chronicle

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

TestAmerica Job ID: 580-42413-1

Client Sample ID: 1B-W-3-021814

Lab Sample ID: 580-42413-1

Date Collected: 02/18/14 13:14

Matrix: Water

Date Received: 02/20/14 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			154113	02/24/14 10:28	ALC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	154192	02/25/14 12:26	EKK	TAL SEA

Client Sample ID: 1C-W-7-021814

Lab Sample ID: 580-42413-2

Date Collected: 02/18/14 14:14

Matrix: Water

Date Received: 02/20/14 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			154113	02/24/14 10:28	ALC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	154192	02/25/14 12:42	EKK	TAL SEA

Client Sample ID: 1C-W-70-021814

Lab Sample ID: 580-42413-3

Date Collected: 02/18/14 14:19

Matrix: Water

Date Received: 02/20/14 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			154113	02/24/14 10:28	ALC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	154192	02/25/14 12:57	EKK	TAL SEA

Client Sample ID: 1C-W-8-021814

Lab Sample ID: 580-42413-4

Date Collected: 02/18/14 15:18

Matrix: Water

Date Received: 02/20/14 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			154113	02/24/14 10:28	ALC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	154192	02/25/14 13:13	EKK	TAL SEA

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 580-42413-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14 *
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-15

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

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

TestAmerica Job ID: 580-42413-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42413-1	1B-W-3-021814	Water	02/18/14 13:14	02/20/14 14:00
580-42413-2	1C-W-7-021814	Water	02/18/14 14:14	02/20/14 14:00
580-42413-3	1C-W-70-021814	Water	02/18/14 14:19	02/20/14 14:00
580-42413-4	1C-W-8-021814	Water	02/18/14 15:18	02/20/14 14:00

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory:
Project Manager:
Address:
Phone:
City/State/ZIP:
Fax:

LAB WORK ORDER: 42413

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

2/25/2014

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: SKYKOMISH
BNSF Project Name: BNSF SKYKOMISH GROUNDWATER
BNSF Contact: BRUCE SHEPPARD
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON CONSULTING
Address: 975 5TH AVE NW
City/State/ZIP: ISSAQUAH, WA 98027
Project Number: 683-043
Project Manager: JERRY PORTELE
Email: JPORTELE@FARALLONCONSULTING.COM
Phone: (425)295-0839
Fax: (425)295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other _____

DELIVERABLES

- [ ] Other Deliverables?
- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] EDD Req, Format?
- [ ] Level IV

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Sample Collection Time	Sample Collection Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	NWTPH-Dx	COMMENTS	LAB USE
1	1B-W-3-021814	2	2/18/14	1314	JC	N	G	W	X		1
2	1C-W-7-021814	↓	↓	1414	↓	↓	↓	↓	X		2
3	1C-W-70-021814	↓	↓	1419	↓	↓	↓	↓	X		3
4	1C-W-8-021814	↓	↓	1518	↓	↓	↓	↓	X		4
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

580-42413 Chain of Custody

Cooler/TB Dig/IR cor 2.5 unc 2.4
Cooler Dsc Lg Blue/white @ Lab 1400
Wet/Packs Packing Bubble
w/o AZ

Relinquished By:	Date/Time: 2/20/14 1300	Received By:	Date/Time: 2/20/14 1400	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? ☐ Yes ☐ No	Custody Seal No.. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (06/08)

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-42413-1

Login Number: 42413

List Source: TestAmerica Seattle

List Number: 1

Creator: Gamble, Cathy L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
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.	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	

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: 580-42898-1
Client Project/Site: BNSF Skykomish Ground Water

For:
Farallon Consulting LLC
975 5th Avenue NW
Suite 100
Issaquah, Washington 98027

Attn: Gerald Portele

Authorized for release by:
4/4/2014 1:16:10 PM
Kim Presley, Project Management Assistant I
(253)922-2310
kim.presley@testamericainc.com

Designee for

Kristine Allen, Manager of Project Management
(253)922-2310
kristine.allen@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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Job ID: 580-42898-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 3/21/2014 11:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 0.5º C, 2.4º C, 2.9º C, 2.9º C, 3.0º C, 3.2º C, 3.2º C, 3.5º C, 4.4º C and 4.4º C.

GC Semi VOA - Method NWTPH-Dx

For the following sample S4-CU-031814 (580-42898-27) the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges are due to what most closely resembles a complex mixture of weathered/degraded diesel fuel and a motor oil range product.

For the following samples MW-38R-032014 (580-42898-1), 5-W-15-032014 (580-42898-4), 5-W-43-031914 (580-42898-8), 5-W-430-031914 (580-42898-9), GW-30-031914 (580-42898-10), GW-1-031914 (580-42898-11), GW-2-031914 (580-42898-12), 2A-W-9-031914 (580-42898-15), 2A-W-41-031914 (580-42898-16), 2A-W-420-031914 (580-42898-17), EW-2A-031814 (580-42898-39) the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges are due to what most closely resembles a complex mixture of weathered/degraded diesel fuel and motor oil range products.

For the following sample GW-3-031914 (580-42898-14) the results in the #2 Diesel Fuel (C10-C24) range is due to what most closely resembles a complex mixture of weathered/degraded diesel fuel.

For the following sample EW-1-031914 (580-42898-62), the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges are due to what most closely resembles a complex mixture of weathered/degraded diesel fuel and motor oil range products.

For the following sample 5-W-54-031814 (580-42898-51) the results in the Motor Oil (>C24-C36) range is due to what most closely resembles a complex mixture of motor oil range products.

For the following sample 5-W-56-031814 (580-42898-50) the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges are due to what most closely resembles a complex mixture of weathered/degraded diesel fuel, motor oil range products, and a grouping of individual peak(s) that may be due to 8270/PAH analytes; analysis by 8270 GC/MS is recommended for peak identification.

For the following samples 1B-W-3-031914 (580-42898-55), MW-16-031914 (580-42898-58), 1B-W-23-031914 (580-42898-60) the results in the #2 Diesel Fuel (C10-C24) range is due to what most closely resembles a complex mixture of weathered/degraded diesel fuel.

For the following samples MW-4-031814 (580-42898-41), 1C-W-4-031814 (580-42898-42), GW-4-031814 (580-42898-43), 2A-W-10-031814 (580-42898-44), 1C-W-80-031814 (580-42898-45), 1C-W-1-031814 (580-42898-46), 1C-W-8-031814 (580-42898-47), 5-W-18-031814 (580-42898-49), 5-W-50-031914 (580-42898-52), 5-W-55-031914 (580-42898-53), 1B-W-2-031914 (580-42898-54), MW-3-031914 (580-42898-56), 1C-W-7-031914 (580-42898-57), 2A-W-42-031914 (580-42898-59) the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges are due to what most closely resembles a complex mixture of weathered/degraded diesel fuel, motor oil range products, and possibly mineral/transformer oil range products.

All affected analyte ranges have been "Y" qualified and reported.

The method blank MB 580-156008/1-A contained Motor Oil (>C24-C36) above the method detection limit but below the reporting limit (RL). The values should be considered as estimates, and have been flagged “J”. The associated sample results have been flagged “B”.

No other analytical or quality issues were noted.

Organic Prep

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-42898-1

Client Sample ID: MW-38R-032014
Date Collected: 03/20/14 09:38
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.059	Y	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 16:25	1
Motor Oil (>C24-C36)	0.071	Y	0.048	0.0093	mg/L		03/27/14 17:48	03/28/14 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*03/27/14 17:48*	*03/28/14 16:25*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-19-032014
Date Collected: 03/20/14 10:39
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-2
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 17:48	03/28/14 16:49	1
Motor Oil (>C24-C36)	ND		0.048	0.0093	mg/L		03/27/14 17:48	03/28/14 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*03/27/14 17:48*	*03/28/14 16:49*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-16-032014
Date Collected: 03/20/14 11:38
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.023	J	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 17:13	1
Motor Oil (>C24-C36)	0.026	J	0.048	0.0093	mg/L		03/27/14 17:48	03/28/14 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*03/27/14 17:48*	*03/28/14 17:13*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-15-032014
Date Collected: 03/20/14 13:29
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.39	Y	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 17:37	1
Motor Oil (>C24-C36)	0.29	Y	0.048	0.0093	mg/L		03/27/14 17:48	03/28/14 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*03/27/14 17:48*	*03/28/14 17:37*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-17-032014
Date Collected: 03/20/14 14:07
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-5
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 17:48	03/28/14 18:01	1
Motor Oil (>C24-C36)	**0.0099**	**J**	0.047	0.0093	mg/L		03/27/14 17:48	03/28/14 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*50 - 150*	*03/27/14 17:48*	*03/28/14 18:01*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-14-032014
Date Collected: 03/20/14 14:58
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-6
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 17:48	03/28/14 18:24	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		03/27/14 17:48	03/28/14 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*03/27/14 17:48*	*03/28/14 18:24*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-190-032014
Date Collected: 03/20/14 16:00
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-7
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 17:48	03/28/14 18:48	1
Motor Oil (>C24-C36)	ND		0.048	0.0093	mg/L		03/27/14 17:48	03/28/14 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*03/27/14 17:48*	*03/28/14 18:48*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-43-031914
Date Collected: 03/19/14 12:15
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.043	Y	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 19:59	1
Motor Oil (>C24-C36)	0.087	Y	0.048	0.0093	mg/L		03/27/14 17:48	03/28/14 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*50 - 150*	*03/27/14 17:48*	*03/28/14 19:59*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-430-031914
Date Collected: 03/19/14 12:34
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.043	Y	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 20:23	1
Motor Oil (>C24-C36)	0.088	Y	0.047	0.0093	mg/L		03/27/14 17:48	03/28/14 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*50 - 150*	*03/27/14 17:48*	*03/28/14 20:23*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: GW-30-031914
Date Collected: 03/19/14 13:57
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-10
Matrix: Water

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	Y	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 20:47	1
Motor Oil (>C24-C36)	0.054	Y	0.048	0.0094	mg/L		03/27/14 17:48	03/28/14 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*03/27/14 17:48*	*03/28/14 20:47*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: GW-1-031914
Date Collected: 03/19/14 14:19
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.054	Y	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 21:10	1
Motor Oil (>C24-C36)	0.097	Y	0.048	0.0093	mg/L		03/27/14 17:48	03/28/14 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*03/27/14 17:48*	*03/28/14 21:10*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: GW-2-031914
Date Collected: 03/19/14 14:21
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.094	Y	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 21:34	1
Motor Oil (>C24-C36)	0.18	Y	0.048	0.0094	mg/L		03/27/14 17:48	03/28/14 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*03/27/14 17:48*	*03/28/14 21:34*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 2A-W-40-031914
Date Collected: 03/19/14 14:57
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-13
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 17:48	03/28/14 21:58	1
Motor Oil (>C24-C36)	**0.011**	**J**	0.048	0.0093	mg/L		03/27/14 17:48	03/28/14 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*03/27/14 17:48*	*03/28/14 21:58*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: GW-3-031914
Date Collected: 03/19/14 15:26
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.039	Y	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 22:21	1
Motor Oil (>C24-C36)	0.035	J	0.048	0.0094	mg/L		03/27/14 17:48	03/28/14 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*03/27/14 17:48*	*03/28/14 22:21*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 2A-W-9-031914
Date Collected: 03/19/14 16:20
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.61	Y	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 22:45	1
Motor Oil (>C24-C36)	0.35	Y	0.048	0.0094	mg/L		03/27/14 17:48	03/28/14 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*03/27/14 17:48*	*03/28/14 22:45*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 2A-W-41-031914
Date Collected: 03/19/14 17:06
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.061	Y	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 23:09	1
Motor Oil (>C24-C36)	0.055	Y	0.048	0.0093	mg/L		03/27/14 17:48	03/28/14 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*03/27/14 17:48*	*03/28/14 23:09*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 2A-W-420-031914
Date Collected: 03/19/14 17:43
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.093	Y	0.024	0.014	mg/L		03/27/14 17:48	03/28/14 23:32	1
Motor Oil (>C24-C36)	0.12	Y	0.048	0.0094	mg/L		03/27/14 17:48	03/28/14 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*03/27/14 17:48*	*03/28/14 23:32*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S1-AU-031714
Date Collected: 03/17/14 16:23
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-18
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/28/14 16:25	1
Motor Oil (>C24-C36)	**0.013**	**J B**	0.047	0.0093	mg/L		03/27/14 11:31	03/28/14 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*03/27/14 11:31*	*03/28/14 16:25*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S1-BU-031714
Date Collected: 03/17/14 16:13
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-19
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/28/14 16:49	1
Motor Oil (>C24-C36)	**0.027**	**J B**	0.047	0.0093	mg/L		03/27/14 11:31	03/28/14 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*03/27/14 11:31*	*03/28/14 16:49*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S1-BD-031714
Date Collected: 03/17/14 16:34
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.018	J	0.024	0.014	mg/L		03/27/14 11:31	03/28/14 17:13	1
Motor Oil (>C24-C36)	0.028	J B	0.047	0.0093	mg/L		03/27/14 11:31	03/28/14 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*03/27/14 11:31*	*03/28/14 17:13*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S1-AD-031714
Date Collected: 03/17/14 16:34
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-21
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/28/14 17:37	1
Motor Oil (>C24-C36)	**0.010**	**J B**	0.048	0.0093	mg/L		03/27/14 11:31	03/28/14 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*50 - 150*	*03/27/14 11:31*	*03/28/14 17:37*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S2-BU-031714
Date Collected: 03/17/14 17:10
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.019	J	0.024	0.014	mg/L		03/27/14 11:31	03/28/14 18:01	1
Motor Oil (>C24-C36)	0.019	J B	0.048	0.0093	mg/L		03/27/14 11:31	03/28/14 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*03/27/14 11:31*	*03/28/14 18:01*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S2-AD-031714
Date Collected: 03/17/14 17:11
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-23
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.014	J	0.024	0.014	mg/L		03/27/14 11:31	03/28/14 18:24	1
Motor Oil (>C24-C36)	0.016	J B	0.048	0.0093	mg/L		03/27/14 11:31	03/28/14 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*50 - 150*	*03/27/14 11:31*	*03/28/14 18:24*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S2-BD-031714
Date Collected: 03/17/14 17:13
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-24
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.025		0.024	0.014	mg/L		03/27/14 11:31	03/28/14 18:48	1
Motor Oil (>C24-C36)	0.021	J B	0.047	0.0093	mg/L		03/27/14 11:31	03/28/14 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*03/27/14 11:31*	*03/28/14 18:48*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S2-AU-031714
Date Collected: 03/17/14 17:31
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-25
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/28/14 19:59	1
Motor Oil (>C24-C36)	**0.011**	**J B**	0.047	0.0093	mg/L		03/27/14 11:31	03/28/14 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*03/27/14 11:31*	*03/28/14 19:59*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S4-AD-031814
Date Collected: 03/18/14 08:28
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-26
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/28/14 20:23	1
Motor Oil (>C24-C36)	**0.011**	**J B**	0.048	0.0093	mg/L		03/27/14 11:31	03/28/14 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*03/27/14 11:31*	*03/28/14 20:23*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S4-CU-031814
Date Collected: 03/18/14 08:30
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-27
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.097	Y	0.024	0.014	mg/L		03/27/14 11:31	03/28/14 20:47	1
Motor Oil (>C24-C36)	0.051	Y B	0.048	0.0094	mg/L		03/27/14 11:31	03/28/14 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*03/27/14 11:31*	*03/28/14 20:47*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S4-BU-031814
Date Collected: 03/18/14 08:33
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-28
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.023	J	0.024	0.014	mg/L		03/27/14 11:31	03/28/14 21:10	1
Motor Oil (>C24-C36)	0.031	J B	0.048	0.0094	mg/L		03/27/14 11:31	03/28/14 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*03/27/14 11:31*	*03/28/14 21:10*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S4-CD-031814
Date Collected: 03/18/14 08:46
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-29
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/28/14 21:34	1
Motor Oil (>C24-C36)	**0.014**	**J B**	0.048	0.0094	mg/L		03/27/14 11:31	03/28/14 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*03/27/14 11:31*	*03/28/14 21:34*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S4-AU-031814
Date Collected: 03/18/14 08:46
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-30
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.019	J	0.024	0.014	mg/L		03/27/14 11:31	03/28/14 21:58	1
Motor Oil (>C24-C36)	0.019	J B	0.048	0.0093	mg/L		03/27/14 11:31	03/28/14 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*03/27/14 11:31*	*03/28/14 21:58*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S4-BD-031814
Date Collected: 03/18/14 08:59
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-31
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/28/14 22:21	1
Motor Oil (>C24-C36)	**0.012**	**J B**	0.048	0.0094	mg/L		03/27/14 11:31	03/28/14 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*03/27/14 11:31*	*03/28/14 22:21*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S3-AD-031814
Date Collected: 03/18/14 09:16
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-32
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/28/14 22:45	1
Motor Oil (>C24-C36)	**0.012**	**J B**	0.048	0.0093	mg/L		03/27/14 11:31	03/28/14 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*03/27/14 11:31*	*03/28/14 22:45*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S3-CU-031814
Date Collected: 03/18/14 09:24
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-33
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/28/14 23:09	1
Motor Oil (>C24-C36)	**0.0097**	**J B**	0.048	0.0093	mg/L		03/27/14 11:31	03/28/14 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*03/27/14 11:31*	*03/28/14 23:09*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S3-BU-031814
Date Collected: 03/18/14 09:31
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-34
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.018	J	0.024	0.014	mg/L		03/27/14 11:31	03/28/14 23:32	1
Motor Oil (>C24-C36)	0.019	J B	0.048	0.0093	mg/L		03/27/14 11:31	03/28/14 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*03/27/14 11:31*	*03/28/14 23:32*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S3-AU-031814
Date Collected: 03/18/14 09:33
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-35
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/29/14 00:43	1
Motor Oil (>C24-C36)	**0.010**	**J B**	0.048	0.0093	mg/L		03/27/14 11:31	03/29/14 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*03/27/14 11:31*	*03/29/14 00:43*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S3-CD-031814
Date Collected: 03/18/14 09:37
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-36
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/29/14 01:06	1
Motor Oil (>C24-C36)	**0.014**	**J B**	0.048	0.0093	mg/L		03/27/14 11:31	03/29/14 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*50 - 150*	*03/27/14 11:31*	*03/29/14 01:06*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S3-BD-031814
Date Collected: 03/18/14 09:58
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-37
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 11:31	03/29/14 01:30	1
Motor Oil (>C24-C36)	ND		0.048	0.0093	mg/L		03/27/14 11:31	03/29/14 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*03/27/14 11:31*	*03/29/14 01:30*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 2B-W-4-031814
Date Collected: 03/18/14 11:19
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-38
Matrix: Water

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		0.024	0.014	mg/L		03/27/14 17:48	03/29/14 00:43	1
Motor Oil (>C24-C36)	**0.020**	**J**	0.047	0.0093	mg/L		03/27/14 17:48	03/29/14 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*03/27/14 17:48*	*03/29/14 00:43*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: EW-2A-031814
Date Collected: 03/18/14 11:31
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-39
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.039	Y	0.024	0.014	mg/L		03/27/14 17:48	03/29/14 01:06	1
Motor Oil (>C24-C36)	0.073	Y	0.048	0.0093	mg/L		03/27/14 17:48	03/29/14 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*03/27/14 17:48*	*03/29/14 01:06*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 1C-W-3-031814
Date Collected: 03/18/14 11:39
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-40
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.022	J	0.024	0.014	mg/L		03/27/14 17:48	03/29/14 01:30	1
Motor Oil (>C24-C36)	0.039	J	0.048	0.0093	mg/L		03/27/14 17:48	03/29/14 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*03/27/14 17:48*	*03/29/14 01:30*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: MW-4-031814
Date Collected: 03/18/14 12:18
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-41
Matrix: Water

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	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 19:20	1
Motor Oil (>C24-C36)	0.26	Y	0.048	0.0093	mg/L		03/31/14 14:18	04/01/14 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*03/31/14 14:18*	*04/01/14 19:20*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 1C-W-4-031814
Date Collected: 03/18/14 12:23
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-42
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.24	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 19:38	1
Motor Oil (>C24-C36)	0.18	Y	0.048	0.0093	mg/L		03/31/14 14:18	04/01/14 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*03/31/14 14:18*	*04/01/14 19:38*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: GW-4-031814
Date Collected: 03/18/14 13:03
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-43
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.042	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 19:56	1
Motor Oil (>C24-C36)	0.082	Y	0.048	0.0094	mg/L		03/31/14 14:18	04/01/14 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*03/31/14 14:18*	*04/01/14 19:56*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 2A-W-10-031814
Date Collected: 03/18/14 14:31
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-44
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.19	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 20:14	1
Motor Oil (>C24-C36)	0.66	Y	0.047	0.0093	mg/L		03/31/14 14:18	04/01/14 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*50 - 150*	*03/31/14 14:18*	*04/01/14 20:14*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 1C-W-80-031814
Date Collected: 03/18/14 14:47
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-45
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.19	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 20:32	1
Motor Oil (>C24-C36)	0.16	Y	0.048	0.0094	mg/L		03/31/14 14:18	04/01/14 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*03/31/14 14:18*	*04/01/14 20:32*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 1C-W-1-031814
Date Collected: 03/18/14 14:48
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-46
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.066	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 20:50	1
Motor Oil (>C24-C36)	0.10	Y	0.048	0.0094	mg/L		03/31/14 14:18	04/01/14 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*03/31/14 14:18*	*04/01/14 20:50*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 1C-W-8-031814
Date Collected: 03/18/14 15:03
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-47
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.19	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 21:08	1
Motor Oil (>C24-C36)	0.16	Y	0.047	0.0093	mg/L		03/31/14 14:18	04/01/14 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*03/31/14 14:18*	*04/01/14 21:08*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 2B-W-40-031814
Date Collected: 03/18/14 16:00
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-48
Matrix: Water

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		0.024	0.014	mg/L		03/31/14 14:18	04/01/14 22:01	1
Motor Oil (>C24-C36)	**0.017**	**J**	0.048	0.0093	mg/L		03/31/14 14:18	04/01/14 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*50 - 150*	*03/31/14 14:18*	*04/01/14 22:01*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-18-031814
Date Collected: 03/18/14 16:19
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-49
Matrix: Water

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	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 22:19	1
Motor Oil (>C24-C36)	0.13	Y	0.048	0.0094	mg/L		03/31/14 14:18	04/01/14 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*03/31/14 14:18*	*04/01/14 22:19*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-56-031814
Date Collected: 03/18/14 16:36
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-50
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	1.7	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 22:37	1
Motor Oil (>C24-C36)	1.8	Y	0.048	0.0094	mg/L		03/31/14 14:18	04/01/14 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*03/31/14 14:18*	*04/01/14 22:37*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-54-031814
Date Collected: 03/18/14 16:53
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-51
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.023	J	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 22:55	1
Motor Oil (>C24-C36)	0.053	Y	0.047	0.0093	mg/L		03/31/14 14:18	04/01/14 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*03/31/14 14:18*	*04/01/14 22:55*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-50-031914
Date Collected: 03/18/14 17:46
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-52
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.52	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 23:13	1
Motor Oil (>C24-C36)	0.63	Y	0.048	0.0093	mg/L		03/31/14 14:18	04/01/14 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*03/31/14 14:18*	*04/01/14 23:13*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-55-031914
Date Collected: 03/18/14 17:51
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-53
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.25	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 23:31	1
Motor Oil (>C24-C36)	0.21	Y	0.047	0.0093	mg/L		03/31/14 14:18	04/01/14 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*03/31/14 14:18*	*04/01/14 23:31*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 1B-W-2-031914
Date Collected: 03/19/14 09:43
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-54
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.029	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 23:49	1
Motor Oil (>C24-C36)	0.079	Y	0.048	0.0094	mg/L		03/31/14 14:18	04/01/14 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*50 - 150*	*03/31/14 14:18*	*04/01/14 23:49*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 1B-W-3-031914
Date Collected: 03/19/14 08:57
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-55
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.035	Y	0.024	0.014	mg/L		03/31/14 14:18	04/02/14 00:07	1
Motor Oil (>C24-C36)	0.045	J	0.047	0.0093	mg/L		03/31/14 14:18	04/02/14 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*03/31/14 14:18*	*04/02/14 00:07*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: MW-3-031914
Date Collected: 03/19/14 09:29
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-56
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.037	Y	0.024	0.014	mg/L		03/31/14 14:18	04/02/14 00:25	1
Motor Oil (>C24-C36)	0.075	Y	0.048	0.0093	mg/L		03/31/14 14:18	04/02/14 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*03/31/14 14:18*	*04/02/14 00:25*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 1C-W-7-031914
Date Collected: 03/19/14 09:38
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-57
Matrix: Water

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	Y	0.024	0.014	mg/L		03/31/14 14:18	04/02/14 00:43	1
Motor Oil (>C24-C36)	0.13	Y	0.048	0.0094	mg/L		03/31/14 14:18	04/02/14 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*03/31/14 14:18*	*04/02/14 00:43*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: MW-16-031914
Date Collected: 03/19/14 10:20
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-58
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.024	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 17:14	1
Motor Oil (>C24-C36)	0.040	J	0.047	0.0093	mg/L		03/31/14 14:18	04/01/14 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*03/31/14 14:18*	*04/01/14 17:14*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 2A-W-42-031914
Date Collected: 03/19/14 10:27
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-59
Matrix: Water

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	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 17:32	1
Motor Oil (>C24-C36)	0.15	Y	0.048	0.0094	mg/L		03/31/14 14:18	04/01/14 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*50 - 150*	*03/31/14 14:18*	*04/01/14 17:32*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 1B-W-23-031914
Date Collected: 03/19/14 10:33
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-60
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.024	Y	0.024	0.014	mg/L		03/31/14 14:18	04/01/14 17:50	1
Motor Oil (>C24-C36)	0.036	J	0.048	0.0093	mg/L		03/31/14 14:18	04/01/14 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*03/31/14 14:18*	*04/01/14 17:50*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 1A-W-4-031914
Date Collected: 03/19/14 11:31
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-61
Matrix: Water

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		0.024	0.014	mg/L		04/01/14 09:45	04/02/14 00:44	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		04/01/14 09:45	04/02/14 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*04/01/14 09:45*	*04/02/14 00:44*	*1*

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: EW-1-031914
Date Collected: 03/19/14 11:59
Date Received: 03/21/14 11:05

Lab Sample ID: 580-42898-62
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.038	Y	0.024	0.014	mg/L		04/01/14 09:45	04/02/14 01:11	1
Motor Oil (>C24-C36)	0.072	Y	0.048	0.0093	mg/L		04/01/14 09:45	04/02/14 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*04/01/14 09:45*	*04/02/14 01:11*	*1*

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

Lab Sample ID: MB 580-156008/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 156060 — **Prep Batch: 156008**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		03/27/14 11:31	03/28/14 15:13	1
Motor Oil (>C24-C36)	0.0116	J	0.050	0.0098	mg/L		03/27/14 11:31	03/28/14 15:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*03/27/14 11:31*	*03/28/14 15:13*	*1*

Lab Sample ID: LCS 580-156008/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 156060 — **Prep Batch: 156008**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.462		mg/L		92	70 - 140
Motor Oil (>C24-C36)	0.500	0.521		mg/L		104	66 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*78*		*50 - 150*

Lab Sample ID: LCSD 580-156008/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 156060 — **Prep Batch: 156008**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.454		mg/L		91	70 - 140	2	27
Motor Oil (>C24-C36)	0.500	0.513		mg/L		103	66 - 125	2	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*87*		*50 - 150*

Lab Sample ID: MB 580-156032/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 156063 — **Prep Batch: 156032**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		03/27/14 17:48	03/28/14 15:13	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		03/27/14 17:48	03/28/14 15:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*50 - 150*	*03/27/14 17:48*	*03/28/14 15:13*	*1*

Lab Sample ID: LCS 580-156032/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 156063 — **Prep Batch: 156032**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.458		mg/L		92	70 - 140
Motor Oil (>C24-C36)	0.500	0.505		mg/L		101	66 - 125

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

Lab Sample ID: LCS 580-156032/2-A
Matrix: Water
Analysis Batch: 156063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156032

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	84		50 - 150

Lab Sample ID: LCSD 580-156032/3-A
Matrix: Water
Analysis Batch: 156063

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 156032

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.428		mg/L		86	70 - 140	7	27
Motor Oil (>C24-C36)			0.500	0.463		mg/L		93	66 - 125	9	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	85		50 - 150

Lab Sample ID: MB 580-156181/1-A
Matrix: Water
Analysis Batch: 156222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 156181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		03/31/14 14:18	04/01/14 18:26	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		03/31/14 14:18	04/01/14 18:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	03/31/14 14:18	04/01/14 18:26	1

Lab Sample ID: LCS 580-156181/2-A
Matrix: Water
Analysis Batch: 156222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156181

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			0.500	0.426		mg/L		85	70 - 140
Motor Oil (>C24-C36)			0.500	0.553		mg/L		111	66 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	99		50 - 150

Lab Sample ID: LCSD 580-156181/3-A
Matrix: Water
Analysis Batch: 156222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 156181

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.386		mg/L		77	70 - 140	10	27
Motor Oil (>C24-C36)			0.500	0.568		mg/L		114	66 - 125	3	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	93		50 - 150

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

Lab Sample ID: MB 580-156218/1-A
Matrix: Water
Analysis Batch: 156246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 156218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		04/01/14 09:45	04/01/14 21:39	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		04/01/14 09:45	04/01/14 21:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*04/01/14 09:45*	*04/01/14 21:39*	*1*

Lab Sample ID: LCS 580-156218/2-A
Matrix: Water
Analysis Batch: 156246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156218

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.389		mg/L		78	70 - 140
Motor Oil (>C24-C36)	0.500	0.475		mg/L		95	66 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*77*		*50 - 150*

Lab Sample ID: LCSD 580-156218/3-A
Matrix: Water
Analysis Batch: 156246

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 156218

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.398		mg/L		80	70 - 140	2	27
Motor Oil (>C24-C36)	0.500	0.467		mg/L		93	66 - 125	2	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*88*		*50 - 150*

Lab Chronicle

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: MW-38R-032014

Lab Sample ID: 580-42898-1

Date Collected: 03/20/14 09:38

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 16:25	JJP	TAL SEA

Client Sample ID: 5-W-19-032014

Lab Sample ID: 580-42898-2

Date Collected: 03/20/14 10:39

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 16:49	JJP	TAL SEA

Client Sample ID: 5-W-16-032014

Lab Sample ID: 580-42898-3

Date Collected: 03/20/14 11:38

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 17:13	JJP	TAL SEA

Client Sample ID: 5-W-15-032014

Lab Sample ID: 580-42898-4

Date Collected: 03/20/14 13:29

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 17:37	JJP	TAL SEA

Client Sample ID: 5-W-17-032014

Lab Sample ID: 580-42898-5

Date Collected: 03/20/14 14:07

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 18:01	JJP	TAL SEA

Client Sample ID: 5-W-14-032014

Lab Sample ID: 580-42898-6

Date Collected: 03/20/14 14:58

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 18:24	JJP	TAL SEA

Lab Chronicle

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-190-032014

Lab Sample ID: 580-42898-7

Date Collected: 03/20/14 16:00
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 18:48	JJP	TAL SEA

Client Sample ID: 5-W-43-031914

Lab Sample ID: 580-42898-8

Date Collected: 03/19/14 12:15
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 19:59	JJP	TAL SEA

Client Sample ID: 5-W-430-031914

Lab Sample ID: 580-42898-9

Date Collected: 03/19/14 12:34
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 20:23	JJP	TAL SEA

Client Sample ID: GW-30-031914

Lab Sample ID: 580-42898-10

Date Collected: 03/19/14 13:57
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 20:47	JJP	TAL SEA

Client Sample ID: GW-1-031914

Lab Sample ID: 580-42898-11

Date Collected: 03/19/14 14:19
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 21:10	JJP	TAL SEA

Client Sample ID: GW-2-031914

Lab Sample ID: 580-42898-12

Date Collected: 03/19/14 14:21
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 21:34	JJP	TAL SEA

Lab Chronicle

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 2A-W-40-031914

Lab Sample ID: 580-42898-13

Date Collected: 03/19/14 14:57
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 21:58	JJP	TAL SEA

Client Sample ID: GW-3-031914

Lab Sample ID: 580-42898-14

Date Collected: 03/19/14 15:26
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 22:21	JJP	TAL SEA

Client Sample ID: 2A-W-9-031914

Lab Sample ID: 580-42898-15

Date Collected: 03/19/14 16:20
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 22:45	JJP	TAL SEA

Client Sample ID: 2A-W-41-031914

Lab Sample ID: 580-42898-16

Date Collected: 03/19/14 17:06
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 23:09	JJP	TAL SEA

Client Sample ID: 2A-W-420-031914

Lab Sample ID: 580-42898-17

Date Collected: 03/19/14 17:43
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/28/14 23:32	JJP	TAL SEA

Client Sample ID: S1-AU-031714

Lab Sample ID: 580-42898-18

Date Collected: 03/17/14 16:23
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 16:25	JJP	TAL SEA

Lab Chronicle

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S1-BU-031714

Lab Sample ID: 580-42898-19

Date Collected: 03/17/14 16:13
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 16:49	JJP	TAL SEA

Client Sample ID: S1-BD-031714

Lab Sample ID: 580-42898-20

Date Collected: 03/17/14 16:34
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 17:13	JJP	TAL SEA

Client Sample ID: S1-AD-031714

Lab Sample ID: 580-42898-21

Date Collected: 03/17/14 16:34
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 17:37	JJP	TAL SEA

Client Sample ID: S2-BU-031714

Lab Sample ID: 580-42898-22

Date Collected: 03/17/14 17:10
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 18:01	JJP	TAL SEA

Client Sample ID: S2-AD-031714

Lab Sample ID: 580-42898-23

Date Collected: 03/17/14 17:11
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 18:24	JJP	TAL SEA

Client Sample ID: S2-BD-031714

Lab Sample ID: 580-42898-24

Date Collected: 03/17/14 17:13
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 18:48	JJP	TAL SEA

Lab Chronicle

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S2-AU-031714

Lab Sample ID: 580-42898-25

Date Collected: 03/17/14 17:31
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 19:59	JJP	TAL SEA

Client Sample ID: S4-AD-031814

Lab Sample ID: 580-42898-26

Date Collected: 03/18/14 08:28
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 20:23	JJP	TAL SEA

Client Sample ID: S4-CU-031814

Lab Sample ID: 580-42898-27

Date Collected: 03/18/14 08:30
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 20:47	JJP	TAL SEA

Client Sample ID: S4-BU-031814

Lab Sample ID: 580-42898-28

Date Collected: 03/18/14 08:33
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 21:10	JJP	TAL SEA

Client Sample ID: S4-CD-031814

Lab Sample ID: 580-42898-29

Date Collected: 03/18/14 08:46
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 21:34	JJP	TAL SEA

Client Sample ID: S4-AU-031814

Lab Sample ID: 580-42898-30

Date Collected: 03/18/14 08:46
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 21:58	JJP	TAL SEA

Lab Chronicle

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: S4-BD-031814

Lab Sample ID: 580-42898-31

Date Collected: 03/18/14 08:59
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 22:21	JJP	TAL SEA

Client Sample ID: S3-AD-031814

Lab Sample ID: 580-42898-32

Date Collected: 03/18/14 09:16
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 22:45	JJP	TAL SEA

Client Sample ID: S3-CU-031814

Lab Sample ID: 580-42898-33

Date Collected: 03/18/14 09:24
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 23:09	JJP	TAL SEA

Client Sample ID: S3-BU-031814

Lab Sample ID: 580-42898-34

Date Collected: 03/18/14 09:31
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/28/14 23:32	JJP	TAL SEA

Client Sample ID: S3-AU-031814

Lab Sample ID: 580-42898-35

Date Collected: 03/18/14 09:33
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/29/14 00:43	JJP	TAL SEA

Client Sample ID: S3-CD-031814

Lab Sample ID: 580-42898-36

Date Collected: 03/18/14 09:37
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/29/14 01:06	JJP	TAL SEA

Client Sample ID: S3-BD-031814

Lab Sample ID: 580-42898-37

Date Collected: 03/18/14 09:58

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156008	03/27/14 11:31	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156060	03/29/14 01:30	JJP	TAL SEA

Client Sample ID: 2B-W-4-031814

Lab Sample ID: 580-42898-38

Date Collected: 03/18/14 11:19

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/29/14 00:43	JJP	TAL SEA

Client Sample ID: EW-2A-031814

Lab Sample ID: 580-42898-39

Date Collected: 03/18/14 11:31

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/29/14 01:06	JJP	TAL SEA

Client Sample ID: 1C-W-3-031814

Lab Sample ID: 580-42898-40

Date Collected: 03/18/14 11:39

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156032	03/27/14 17:48	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156063	03/29/14 01:30	JJP	TAL SEA

Client Sample ID: MW-4-031814

Lab Sample ID: 580-42898-41

Date Collected: 03/18/14 12:18

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 19:20	JJP	TAL SEA

Client Sample ID: 1C-W-4-031814

Lab Sample ID: 580-42898-42

Date Collected: 03/18/14 12:23

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 19:38	JJP	TAL SEA

Lab Chronicle

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: GW-4-031814
Lab Sample ID: 580-42898-43
Date Collected: 03/18/14 13:03
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 19:56	JJP	TAL SEA

Client Sample ID: 2A-W-10-031814
Lab Sample ID: 580-42898-44
Date Collected: 03/18/14 14:31
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 20:14	JJP	TAL SEA

Client Sample ID: 1C-W-80-031814
Lab Sample ID: 580-42898-45
Date Collected: 03/18/14 14:47
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 20:32	JJP	TAL SEA

Client Sample ID: 1C-W-1-031814
Lab Sample ID: 580-42898-46
Date Collected: 03/18/14 14:48
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 20:50	JJP	TAL SEA

Client Sample ID: 1C-W-8-031814
Lab Sample ID: 580-42898-47
Date Collected: 03/18/14 15:03
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 21:08	JJP	TAL SEA

Client Sample ID: 2B-W-40-031814
Lab Sample ID: 580-42898-48
Date Collected: 03/18/14 16:00
Matrix: Water
Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 22:01	JJP	TAL SEA

Lab Chronicle

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 5-W-18-031814

Lab Sample ID: 580-42898-49

Date Collected: 03/18/14 16:19

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 22:19	JJP	TAL SEA

Client Sample ID: 5-W-56-031814

Lab Sample ID: 580-42898-50

Date Collected: 03/18/14 16:36

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 22:37	JJP	TAL SEA

Client Sample ID: 5-W-54-031814

Lab Sample ID: 580-42898-51

Date Collected: 03/18/14 16:53

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 22:55	JJP	TAL SEA

Client Sample ID: 5-W-50-031914

Lab Sample ID: 580-42898-52

Date Collected: 03/18/14 17:46

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 23:13	JJP	TAL SEA

Client Sample ID: 5-W-55-031914

Lab Sample ID: 580-42898-53

Date Collected: 03/18/14 17:51

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 23:31	JJP	TAL SEA

Client Sample ID: 1B-W-2-031914

Lab Sample ID: 580-42898-54

Date Collected: 03/19/14 09:43

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 23:49	JJP	TAL SEA

Client Sample ID: 1B-W-3-031914

Lab Sample ID: 580-42898-55

Date Collected: 03/19/14 08:57

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/02/14 00:07	JJP	TAL SEA

Client Sample ID: MW-3-031914

Lab Sample ID: 580-42898-56

Date Collected: 03/19/14 09:29

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/02/14 00:25	JJP	TAL SEA

Client Sample ID: 1C-W-7-031914

Lab Sample ID: 580-42898-57

Date Collected: 03/19/14 09:38

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/02/14 00:43	JJP	TAL SEA

Client Sample ID: MW-16-031914

Lab Sample ID: 580-42898-58

Date Collected: 03/19/14 10:20

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 17:14	JJP	TAL SEA

Client Sample ID: 2A-W-42-031914

Lab Sample ID: 580-42898-59

Date Collected: 03/19/14 10:27

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 17:32	JJP	TAL SEA

Client Sample ID: 1B-W-23-031914

Lab Sample ID: 580-42898-60

Date Collected: 03/19/14 10:33

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156181	03/31/14 14:18	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156222	04/01/14 17:50	JJP	TAL SEA

Lab Chronicle

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

TestAmerica Job ID: 580-42898-1

Client Sample ID: 1A-W-4-031914

Lab Sample ID: 580-42898-61

Date Collected: 03/19/14 11:31

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156218	04/01/14 09:45	ALC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156246	04/02/14 00:44	JJP	TAL SEA

Client Sample ID: EW-1-031914

Lab Sample ID: 580-42898-62

Date Collected: 03/19/14 11:59

Matrix: Water

Date Received: 03/21/14 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156218	04/01/14 09:45	ALC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	156246	04/02/14 01:11	JJP	TAL SEA

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 580-42898-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14 *
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-15

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

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

TestAmerica Job ID: 580-42898-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42898-1	MW-38R-032014	Water	03/20/14 09:38	03/21/14 11:05
580-42898-2	5-W-19-032014	Water	03/20/14 10:39	03/21/14 11:05
580-42898-3	5-W-16-032014	Water	03/20/14 11:38	03/21/14 11:05
580-42898-4	5-W-15-032014	Water	03/20/14 13:29	03/21/14 11:05
580-42898-5	5-W-17-032014	Water	03/20/14 14:07	03/21/14 11:05
580-42898-6	5-W-14-032014	Water	03/20/14 14:58	03/21/14 11:05
580-42898-7	5-W-190-032014	Water	03/20/14 16:00	03/21/14 11:05
580-42898-8	5-W-43-031914	Water	03/19/14 12:15	03/21/14 11:05
580-42898-9	5-W-430-031914	Water	03/19/14 12:34	03/21/14 11:05
580-42898-10	GW-30-031914	Water	03/19/14 13:57	03/21/14 11:05
580-42898-11	GW-1-031914	Water	03/19/14 14:19	03/21/14 11:05
580-42898-12	GW-2-031914	Water	03/19/14 14:21	03/21/14 11:05
580-42898-13	2A-W-40-031914	Water	03/19/14 14:57	03/21/14 11:05
580-42898-14	GW-3-031914	Water	03/19/14 15:26	03/21/14 11:05
580-42898-15	2A-W-9-031914	Water	03/19/14 16:20	03/21/14 11:05
580-42898-16	2A-W-41-031914	Water	03/19/14 17:06	03/21/14 11:05
580-42898-17	2A-W-420-031914	Water	03/19/14 17:43	03/21/14 11:05
580-42898-18	S1-AU-031714	Water	03/17/14 16:23	03/21/14 11:05
580-42898-19	S1-BU-031714	Water	03/17/14 16:13	03/21/14 11:05
580-42898-20	S1-BD-031714	Water	03/17/14 16:34	03/21/14 11:05
580-42898-21	S1-AD-031714	Water	03/17/14 16:34	03/21/14 11:05
580-42898-22	S2-BU-031714	Water	03/17/14 17:10	03/21/14 11:05
580-42898-23	S2-AD-031714	Water	03/17/14 17:11	03/21/14 11:05
580-42898-24	S2-BD-031714	Water	03/17/14 17:13	03/21/14 11:05
580-42898-25	S2-AU-031714	Water	03/17/14 17:31	03/21/14 11:05
580-42898-26	S4-AD-031814	Water	03/18/14 08:28	03/21/14 11:05
580-42898-27	S4-CU-031814	Water	03/18/14 08:30	03/21/14 11:05
580-42898-28	S4-BU-031814	Water	03/18/14 08:33	03/21/14 11:05
580-42898-29	S4-CD-031814	Water	03/18/14 08:46	03/21/14 11:05
580-42898-30	S4-AU-031814	Water	03/18/14 08:46	03/21/14 11:05
580-42898-31	S4-BD-031814	Water	03/18/14 08:59	03/21/14 11:05
580-42898-32	S3-AD-031814	Water	03/18/14 09:16	03/21/14 11:05
580-42898-33	S3-CU-031814	Water	03/18/14 09:24	03/21/14 11:05
580-42898-34	S3-BU-031814	Water	03/18/14 09:31	03/21/14 11:05
580-42898-35	S3-AU-031814	Water	03/18/14 09:33	03/21/14 11:05
580-42898-36	S3-CD-031814	Water	03/18/14 09:37	03/21/14 11:05
580-42898-37	S3-BD-031814	Water	03/18/14 09:58	03/21/14 11:05
580-42898-38	2B-W-4-031814	Water	03/18/14 11:19	03/21/14 11:05
580-42898-39	EW-2A-031814	Water	03/18/14 11:31	03/21/14 11:05
580-42898-40	1C-W-3-031814	Water	03/18/14 11:39	03/21/14 11:05
580-42898-41	MW-4-031814	Water	03/18/14 12:18	03/21/14 11:05
580-42898-42	1C-W-4-031814	Water	03/18/14 12:23	03/21/14 11:05
580-42898-43	GW-4-031814	Water	03/18/14 13:03	03/21/14 11:05
580-42898-44	2A-W-10-031814	Water	03/18/14 14:31	03/21/14 11:05
580-42898-45	1C-W-80-031814	Water	03/18/14 14:47	03/21/14 11:05
580-42898-46	1C-W-1-031814	Water	03/18/14 14:48	03/21/14 11:05
580-42898-47	1C-W-8-031814	Water	03/18/14 15:03	03/21/14 11:05
580-42898-48	2B-W-40-031814	Water	03/18/14 16:00	03/21/14 11:05
580-42898-49	5-W-18-031814	Water	03/18/14 16:19	03/21/14 11:05
580-42898-50	5-W-56-031814	Water	03/18/14 16:36	03/21/14 11:05
580-42898-51	5-W-54-031814	Water	03/18/14 16:53	03/21/14 11:05
580-42898-52	5-W-50-031914	Water	03/18/14 17:46	03/21/14 11:05
580-42898-53	5-W-55-031914	Water	03/18/14 17:51	03/21/14 11:05

Sample Summary

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

TestAmerica Job ID: 580-42898-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42898-54	1B-W-2-031914	Water	03/19/14 09:43	03/21/14 11:05
580-42898-55	1B-W-3-031914	Water	03/19/14 08:57	03/21/14 11:05
580-42898-56	MW-3-031914	Water	03/19/14 09:29	03/21/14 11:05
580-42898-57	1C-W-7-031914	Water	03/19/14 09:38	03/21/14 11:05
580-42898-58	MW-16-031914	Water	03/19/14 10:20	03/21/14 11:05
580-42898-59	2A-W-42-031914	Water	03/19/14 10:27	03/21/14 11:05
580-42898-60	1B-W-23-031914	Water	03/19/14 10:33	03/21/14 11:05
580-42898-61	1A-W-4-031914	Water	03/19/14 11:31	03/21/14 11:05
580-42898-62	EW-1-031914	Water	03/19/14 11:59	03/21/14 11:05

Cooler/TB Dig/IR cor 2.7 unc 1.6 — Cooler Dsc LG WH @ Lab — Wet/Packs Packing BUBBLE — w/o — CLIENT DO

Cooler/TB Dig/IR cor 0.5 unc .4 — Cooler Dsc LG RED WH @ Lab — Wet/Packs Packing BUBBLE — w/o

42898

4/4/2014

BNSF RAILWAY

CHAIN OF CUSTODY

ORK ORDER:

SHIPMENT INFORMATION

nt Method:

ng Number:

BNSF PROJECT INFORMATION		CONSULTANT INFORMATION	
Project State of Origin: WA			Project Number: 6083-043
BNSF Project Number:	Project City: SKYKOMISH, WA	Company: FARALLON	Project Manager: JERRY PORTELE
BNSF Project Name: BNSF SKYKOMISH	GROUNDWATER	Address: 975 5TH AVE NW	Email: JPORTELE@FARALLONCONSULTING.COM
BNSF Contact: BRUCE SHEPPARD	BNSF Work Order No.:	City/State/ZIP: ISSAQUAH, WA 98027	Phone: 425 295-0800 Fax: 425 295 0850

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?

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	METHODS FOR ANALYSIS: NWTPH-Dx
1	MW-38R-032014	2	3/20/14	0938	DK	N	G	W	X
2	5-W-19-032014			1039					X
3	5-W-16-032014			1138					X
4	5-W-15-032014			1329					X
5	5-W-17-032014			1407					X
6	5-W-14-032014			1458					X
7	5-W-190-032014			1600					X
8									
9									
10									
11									
12									
13									
14									
15									

DK

580-42898 Chain of Custody

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		3/20/14 1835	Ryan Ostrom	3/20/14 1835
	Ryan Ostrom	3/21/14 1105		3-21-14 1105
		Date/Time:	Received By:	

Comments an

A1

Cooler/TB Dig/IR cor 2.9 unc 2.8 — Cooler Dsc LG GR BLU @ Lab — Wet/Packs Packing BUBBLE — w/o

A1

Cooler/TB Dig/IR cor 3.5 unc 3.5 — Cooler Dsc LG BLU WH @ Lab — Wet/Packs Packing BUBBLE — w/o

Cooler/TB Dig/IR cor 4.4 unc 4.3 — Cooler Dsc LG GR BLU @ Lab — Wet/Packs Packing BUBBLE — w/o

Cooler/TB Dig/IR cor 3.0 unc 2.9 — Cooler Dsc LG BLU WH @ Lab — Wet/Packs Packing BUBBLE — w/o

A1

Cooler/TB Dig/IR cor 3.5 unc 3.5 — Cooler Dsc LG GR BLU @ Lab — Wet/Packs Packing BUBBLE — w/o

Cooler/TB Dig/IR cor 4.4 unc 4.3 — Cooler Dsc LG GR BLU @ Lab — Wet/Packs Packing BUBBLE — w/o

Cooler/TB Dig/IR cor 2.9 unc 2.8 — Cooler Dsc LG BLU WH @ Lab — Wet/Packs Packing BUBBLE — w/o

Cooler/TB Dig/IR cor 2.4 unc 2.3 — Cooler Dsc LG BLU WH @ Lab — Wet/Packs Packing BUBBLE — w/o

Cooler/TB Dig/IR cor 3.2 unc 3.1 — Cooler Dsc LG BLU WH @ Lab — Wet/Packs Packing BUBBLE — w/o

Cooler/TB Dig/IR cor 3.2 unc 3.1 — Cooler Dsc LG BLU WH @ Lab — Wet/Packs Packing BUBBLE — w/o

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: | Project Manager:
Address: | Phone:
City/State/ZIP: | Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
BNSF Project Name: BNSF Skykomish Groundwater
BNSF Contact: Bruce Sheppard
Project State of Origin: WA
Project City: Skykomish
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: Farallon Consulting
Address: 975 5th Ave NW
City/State/ZIP: Issaquah, WA 98027
Project Number: 683-043
Project Manager: Jerry Portele
Email: JPortele@FarallonConsulting.com
Phone: 425-295-0839 Fax: 425-295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] 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 Date	Sample Collection Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	NWTPH-DX								COMMENTS	LAB USE
1	5-W-43-031914	2	03/19/14	1215	RL	N	G	W	X									
2	5-W-430-031914			1234	RL				X									
3	GW-30-031914			1357	RL				X									
4	GW-1-031914			1419	RL				X									
5	GW-2-031914			1421	RO				X									
6	2A-W-40-031914			1457	DK				X									
7	GW-3-031914			1526	RL				X									
8	2A-W-9-031914			1620	DK				X									
9	2A-W-41-031914			1706	RL				X									
10	2A-W-420-031914		↓	1743	RL				X									
11																		
12																		
13																		
14																		
15																		

Relinquished By: Ryan Ostrom	Date/Time: 03/21/14 @ 1105	Received By:	Date/Time: 3-21-14 1105	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? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (0912)

4/4/2014

BNSF RAILWAY — CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: | Project Manager:
Address: | Phone:
City/State/ZIP: | Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: Skykomish
BNSF Project Name: BNSF Skykomish Groundwater
BNSF Contact: Bruce Sheppard
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: Farallon Consulting
Address: 975 5th Ave NW
City/State/ZIP: Issaquah, WA 98027
Project Number: 683-043
Project Manager: Jerry Portele
Email: JPortele@FarallonConsulting.com
Phone: 425-295-0839 Fax: 425-295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] 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 Date	Sample Collection Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx	COMMENTS	LAB USE
1	S1-AU-031714	2	03/17/14	1623	RO	N	G	W	X		
2	S1-BU-031714			1613	RO				X		
3	S1-BD-031714			1634	RO				X		
4	S1-AD-031714			1634	RL				X		
5	S2-BU-031714			1710	RL				X		
6	S2-AD-031714			1711	RO				X		
7	S2-BD-031714			1713	RL				X		
8	S2-AU-031714			1731	RO				X		
9	S4-AD-031814		03/18/14	0828	DK				X		
10	S4-CU-031814			0830	RL				X		
11	S4-BU-031814			0833	RO				X		
12	S4-CD-031814			0846	RL				X		
13	S4-AU-031814			0846	DK				X		
14	S4-BD-031814			0859	RO				X		
15	S3-AD-031814			0916	DK				X		

Relinquished By: Ryan Ostrom	Date/Time: 03/21/14 @ 1105	Received By: RMarch	Date/Time: 3-21-14 1105	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? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT

TAL-1001 (0912)

4/4/2014

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory:
Project Manager:
Address:
Phone:
City/State/ZIP:
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: Skykomish
BNSF Project Name: BNSF Skykomish Groundwater
BNSF Contact: Bruce Sheppard
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: Farallon Consulting
Address: 975 5th Ave NW
City/State/ZIP: Issaquah, WA 98027
Project Number: 683-043
Project Manager: Jerry Portele
Email: JPortele@FarallonConsulting.com
Phone: 425-295-0839 Fax: 425-295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

METHODS FOR ANALYSIS

NWTPH-DX

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Sample Collection Time	Sample Collection Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	NWTPH-DX								COMMENTS	LAB USE
1	S3-CU-031814	2	03/18/14	0924	RL	N	G	W	X									
2	S3-BU-031814			0931	RO				X									
3	S3-AU-031814			0933	DK				X									
4	S3-CD-031814			0937	RL				X									
5	S3-BD-031814			0958	RO				X									
6	2B-W-4-031814			1119	DK				X									
7	EW-2A-031814			1131	RL				X									
8	1C-W-3-031814			1139	RO				X									
9	MW-4-031814			1218	DK				X									
10	1C-W-4-031814			1223	RO				X									
11	GW-4-031814			1303	RL				X									
12	2A-W-10-031814			1431	DK				X									
13	1C-W-80-031814			1447	RO				X									
14	1C-W-1-031814			1448	RL				X									
15	1C-W-8-031814	↓	↓	1503	RO	↓	↓	↓	X									

Relinquished By: Tyson Ostrom	Date/Time: 03/21/14 @ 1105	Received By:	Date/Time: 3-21-14 1105	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? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (0912)

4/4/2014

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: | Project Manager:
Address: | Phone:
City/State/ZIP: | Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: Skykomish
BNSF Project Name: BNSF Skykomish Groundwater
BNSF Contact: Bruce Sheppard
BNSF Work Order No.:

CONSULTANT INFORMATION

Project Number: 683-043
Company: Farallon Consulting
Project Manager: Jerry Portele
Address: 975 5th Ave NW
Email: JPortele@FarallonConsulting.com
City/State/ZIP: Issaquah, WA 98027
Phone: 425-295-0839
Fax: 425-295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Sample Collection Time	Sample Collection Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	METHODS FOR ANALYSIS: NWTPH-DX								COMMENTS	LAB USE
1	2B-W-40-031814	2	03/18/14	1600	DK	N	G	W	X									
2	5-W-18-031814			1619	RL				X									
3	5-W-56-031814			1636	RO				X									
4	5-W-54-031814			1653	DK				X									
5	5-W-50-031814			1746	RL				X									
6	5-W-55-031814		↓	1751	RO				X									
7	1B-W-2-031914		03/19/14	0843	RO				X									
8	1B-W-3-031914			0857	RL				X									
9	~~DUPE~~ DUP-1 MW-3-031914			0929	DK				X									
10	1C-W-7-031914			0938	RO				X									
11	MW-16-031914			1020	DK				X									
12	2A-W-42-031914			1027	RL				X									
13	1B-W-23-031914			1033	RO				X									
14	1A-W-4-031914			1131	DK				X									
15	EW-1-031914		↓	1159	RO	↓	↓	↓	X									

Relinquished By: Ryan Ostrom	Date/Time: 03/21/14 @ 1105	Received By: RDM	Date/Time: 3-21-14 1105	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? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (0912)

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-42898-1

Login Number: 42898

List Source: TestAmerica Seattle

List Number: 1

Creator: McDaniel, Ronald T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not present
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.	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	

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: 580-43330-1
Client Project/Site: BNSF Skykomish Ground Water

For:
Farallon Consulting LLC
975 5th Avenue NW
Suite 100
Issaquah, Washington 98027

Attn: Gerald Portele

Kristine D. Allen

Authorized for release by:
5/2/2014 4:04:15 PM

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

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Case Narrative

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

TestAmerica Job ID: 580-43330-1

Job ID: 580-43330-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 4/23/2014 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º C.

GC Semi VOA

Method(s) NWTPH-Dx: In analytical batch 158012, for the following sample from preparation batch 157954: 1B-W-3-042114 (580-43330-1), the results in the #2 Diesel Fuel (C10-C24) range is due to what most closely resembles a complex mixture of weathered/degraded diesel fuel. The affected analyte range(s) have been Y qualified and reported.

Method(s) NWTPH-Dx: In analytical batch 158012, for the following sample(s) from preparation batch 157954: 1C-W-7-042114 (580-43330-2), 1C-W-80-042114 (580-43330-4), 1C-W-8-042114 (580-43330-3), the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) range(s) are due to what most closely resembles a complex mixture of weathered/degraded diesel fuel and motor oil range products. The affected analyte range(s) have been Y qualified and reported.

No other analytical or quality issues were noted.

Organic Prep

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

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

TestAmerica Job ID: 580-43330-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-43330-1

Client Sample ID: 1B-W-3-042114
Date Collected: 04/21/14 12:06
Date Received: 04/23/14 15:50

Lab Sample ID: 580-43330-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.034	Y	0.024	0.014	mg/L		04/28/14 15:16	04/29/14 16:05	1
Motor Oil (>C24-C36)	0.044	J	0.048	0.0093	mg/L		04/28/14 15:16	04/29/14 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*04/28/14 15:16*	*04/29/14 16:05*	*1*

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

TestAmerica Job ID: 580-43330-1

Client Sample ID: 1C-W-7-042114
Date Collected: 04/21/14 12:54
Date Received: 04/23/14 15:50

Lab Sample ID: 580-43330-2
Matrix: Water

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	Y	0.024	0.014	mg/L		04/28/14 15:16	04/29/14 16:23	1
Motor Oil (>C24-C36)	0.079	Y	0.048	0.0093	mg/L		04/28/14 15:16	04/29/14 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*04/28/14 15:16*	*04/29/14 16:23*	*1*

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

TestAmerica Job ID: 580-43330-1

Client Sample ID: 1C-W-8-042114
Date Collected: 04/21/14 13:52
Date Received: 04/23/14 15:50

Lab Sample ID: 580-43330-3
Matrix: Water

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	Y	0.024	0.014	mg/L		04/28/14 15:16	04/29/14 17:17	1
Motor Oil (>C24-C36)	0.090	Y	0.047	0.0093	mg/L		04/28/14 15:16	04/29/14 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*04/28/14 15:16*	*04/29/14 17:17*	*1*

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

TestAmerica Job ID: 580-43330-1

Client Sample ID: 1C-W-80-042114
Date Collected: 04/21/14 16:00
Date Received: 04/23/14 15:50

Lab Sample ID: 580-43330-4
Matrix: Water

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	Y	0.024	0.014	mg/L		04/28/14 15:16	04/29/14 17:35	1
Motor Oil (>C24-C36)	0.085	Y	0.048	0.0093	mg/L		04/28/14 15:16	04/29/14 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*04/28/14 15:16*	*04/29/14 17:35*	*1*

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

Lab Sample ID: MB 580-157954/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 158012 — **Prep Batch: 157954**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		04/28/14 15:16	04/29/14 14:53	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		04/28/14 15:16	04/29/14 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*50 - 150*	*04/28/14 15:16*	*04/29/14 14:53*	*1*

Lab Sample ID: LCS 580-157954/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 158012 — **Prep Batch: 157954**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			0.500	0.441		mg/L		88	70 - 140		
Motor Oil (>C24-C36)			0.500	0.539		mg/L		108	66 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*96*		*50 - 150*

Lab Sample ID: LCSD 580-157954/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 158012 — **Prep Batch: 157954**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.417		mg/L		83	70 - 140	6	27
Motor Oil (>C24-C36)			0.500	0.516		mg/L		103	66 - 125	4	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*92*		*50 - 150*

Lab Chronicle

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

TestAmerica Job ID: 580-43330-1

Client Sample ID: 1B-W-3-042114

Lab Sample ID: 580-43330-1

Date Collected: 04/21/14 12:06

Matrix: Water

Date Received: 04/23/14 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			157954	04/28/14 15:16	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	158012	04/29/14 16:05	JJP	TAL SEA

Client Sample ID: 1C-W-7-042114

Lab Sample ID: 580-43330-2

Date Collected: 04/21/14 12:54

Matrix: Water

Date Received: 04/23/14 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			157954	04/28/14 15:16	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	158012	04/29/14 16:23	JJP	TAL SEA

Client Sample ID: 1C-W-8-042114

Lab Sample ID: 580-43330-3

Date Collected: 04/21/14 13:52

Matrix: Water

Date Received: 04/23/14 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			157954	04/28/14 15:16	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	158012	04/29/14 17:17	JJP	TAL SEA

Client Sample ID: 1C-W-80-042114

Lab Sample ID: 580-43330-4

Date Collected: 04/21/14 16:00

Matrix: Water

Date Received: 04/23/14 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			157954	04/28/14 15:16	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	158012	04/29/14 17:35	JJP	TAL SEA

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 580-43330-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	07-31-14 *
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

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

TestAmerica Job ID: 580-43330-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-43330-1	1B-W-3-042114	Water	04/21/14 12:06	04/23/14 15:50
580-43330-2	1C-W-7-042114	Water	04/21/14 12:54	04/23/14 15:50
580-43330-3	1C-W-8-042114	Water	04/21/14 13:52	04/23/14 15:50
580-43330-4	1C-W-80-042114	Water	04/21/14 16:00	04/23/14 15:50

BNSF RAILWAY

CHAIN OF CUSTODY

LAB WORK ORDER: 43330

LABORATORY INFORMATION

Laboratory:	Project Manager:
Address:	Phone:
City/State/ZIP:	Fax:

SHIPMENT INFORMATION

Shipment Method:

Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number: ,	Project State of Origin: WA
BNSF Project Name: BNSF SKYKOMISH	Project City: SKYKOMISH WA
BNSF Contact: BRUCE SHEPPARD	BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON CONSULTING	Project Number: 683-043
Address: 975 5TH AVE NW	Project Manager: JERRY PORTELE
City/State/ZIP: ISSAQUAH WA 98027	Email: JPORTELE@FARALLONCONSULTING.COM
	Phone: 425 295 0800 Fax: 425 295 0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [X] Standard 10-Day
- [ ] Other ______

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

SAMPLE INFORMATION

#	Sample Identification	Containers	Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx	COMMENTS	LAB USE
1	1B-W-3-042114	2	4/21/14	1206	DK	N	G	W	X		-1
2	1C-W-7-042114	↓	↓	1254	↓	↓	↓	↓	X		-2
3	1C-W-8-042114	↓	↓	1352	↓	↓	↓	↓	X		-3
4	1C-W-80-042114	↓	↓	1600	↓	↓	↓	↓	X		-4
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DK

580-43330 Chain of Custody

Cooler/TB Dig/IR cor 1.2°C unc 1.7°C
Cooler Dsc LG Blue/White @ Lab 1550
Wet/Packs Packing Bubble
w/o A1

Relinquished By: [signature]	Date/Time: 4/23/14 0930	Received By: [signature]	Date/Time: 4/23/14 1550	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? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES   DUPLICATE - CONSULTANT   TAL-1001 (0912)

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-43330-1

Login Number: 43330

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	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	

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: 580-43715-1
Client Project/Site: BNSF Skykomish Ground Water

For:
Farallon Consulting LLC
975 5th Avenue NW
Suite 100
Issaquah, Washington 98027

Attn: Gerald Portele

Kristine D. Allen

Authorized for release by:
5/28/2014 12:21:17 PM

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

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

TestAmerica Job ID: 580-43715-1

Job ID: 580-43715-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-43715-1

Comments
No additional comments.

Receipt
The samples were received on 5/23/2014 1:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

GC Semi VOA
Method(s) NWTPH-Dx: In analytical batch 159787, for the following sample(s) from preparation batch 159766: 1B-W-3-052014 (580-43715-1), 1C-W-7-052014 (580-43715-2), 1C-W-80-052014 (580-43715-4), 1C-W-8-052014 (580-43715-3), the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges are due primarily to a mineral/transformer oil range product and biogenic interference; method 3630 silica gel cleanup procedure is recommended. The affected analyte range(s) have been Y qualified and reported.

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.

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

TestAmerica Job ID: 580-43715-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-43715-1

Client Sample ID: 1B-W-3-052014
Date Collected: 05/20/14 11:36
Date Received: 05/23/14 13:20

Lab Sample ID: 580-43715-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.047	Y	0.024	0.014	mg/L		05/27/14 11:04	05/27/14 18:02	1
Motor Oil (>C24-C36)	0.055	Y	0.048	0.0093	mg/L		05/27/14 11:04	05/27/14 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*05/27/14 11:04*	*05/27/14 18:02*	*1*

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

TestAmerica Job ID: 580-43715-1

Client Sample ID: 1C-W-7-052014
Date Collected: 05/20/14 12:25
Date Received: 05/23/14 13:20

Lab Sample ID: 580-43715-2
Matrix: Water

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	Y	0.024	0.014	mg/L		05/27/14 11:04	05/27/14 18:21	1
Motor Oil (>C24-C36)	0.078	Y	0.048	0.0093	mg/L		05/27/14 11:04	05/27/14 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*05/27/14 11:04*	*05/27/14 18:21*	*1*

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

TestAmerica Job ID: 580-43715-1

Client Sample ID: 1C-W-8-052014
Date Collected: 05/20/14 13:24
Date Received: 05/23/14 13:20

Lab Sample ID: 580-43715-3
Matrix: Water

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	Y	0.024	0.014	mg/L		05/27/14 11:04	05/27/14 18:40	1
Motor Oil (>C24-C36)	0.082	Y	0.047	0.0093	mg/L		05/27/14 11:04	05/27/14 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*05/27/14 11:04*	*05/27/14 18:40*	*1*

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

TestAmerica Job ID: 580-43715-1

Client Sample ID: 1C-W-80-052014
Date Collected: 05/20/14 16:00
Date Received: 05/23/14 13:20

Lab Sample ID: 580-43715-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.092	Y	0.024	0.014	mg/L		05/27/14 11:04	05/27/14 19:37	1
Motor Oil (>C24-C36)	0.082	Y	0.047	0.0093	mg/L		05/27/14 11:04	05/27/14 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*05/27/14 11:04*	*05/27/14 19:37*	*1*

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

Lab Sample ID: MB 580-159766/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 159789 — **Prep Batch: 159766**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		05/27/14 11:04	05/27/14 15:49	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		05/27/14 11:04	05/27/14 15:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*05/27/14 11:04*	*05/27/14 15:49*	*1*

Lab Sample ID: LCS 580-159766/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 159789 — **Prep Batch: 159766**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.433		mg/L		87	70 - 140
Motor Oil (>C24-C36)	0.502	0.426		mg/L		85	66 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*84*		*50 - 150*

Lab Sample ID: LCSD 580-159766/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 159789 — **Prep Batch: 159766**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.474		mg/L		95	70 - 140	9	27
Motor Oil (>C24-C36)	0.502	0.442		mg/L		88	66 - 125	4	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*94*		*50 - 150*

Lab Chronicle

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

TestAmerica Job ID: 580-43715-1

Client Sample ID: 1B-W-3-052014

Lab Sample ID: 580-43715-1

Date Collected: 05/20/14 11:36

Matrix: Water

Date Received: 05/23/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			159766	05/27/14 11:04	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	159789	05/27/14 18:02	EKK	TAL SEA

Client Sample ID: 1C-W-7-052014

Lab Sample ID: 580-43715-2

Date Collected: 05/20/14 12:25

Matrix: Water

Date Received: 05/23/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			159766	05/27/14 11:04	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	159789	05/27/14 18:21	EKK	TAL SEA

Client Sample ID: 1C-W-8-052014

Lab Sample ID: 580-43715-3

Date Collected: 05/20/14 13:24

Matrix: Water

Date Received: 05/23/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			159766	05/27/14 11:04	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	159789	05/27/14 18:40	EKK	TAL SEA

Client Sample ID: 1C-W-80-052014

Lab Sample ID: 580-43715-4

Date Collected: 05/20/14 16:00

Matrix: Water

Date Received: 05/23/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			159766	05/27/14 11:04	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	159789	05/27/14 19:37	EKK	TAL SEA

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 580-43715-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-112	05-27-15
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

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

TestAmerica Job ID: 580-43715-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-43715-1	1B-W-3-052014	Water	05/20/14 11:36	05/23/14 13:20
580-43715-2	1C-W-7-052014	Water	05/20/14 12:25	05/23/14 13:20
580-43715-3	1C-W-8-052014	Water	05/20/14 13:24	05/23/14 13:20
580-43715-4	1C-W-80-052014	Water	05/20/14 16:00	05/23/14 13:20

BNSF RAILWAY

CHAIN OF CUSTODY

LAB WORK ORDER: 43715

LABORATORY INFORMATION

Laboratory:
Project Manager:
Address:
Phone:
City/State/ZIP:
Fax:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: SKYKOMISH, WA
BNSF Project Name: BNSF SKYKOMISH GROUNDWATER
BNSF Contact: BRUCE SHEPARD
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON CONSULTING
Project Number: 683-043
Project Manager: JERRY PORTELE
Address: 975 5TH AVE NW
Email: JPORTELE@FARALLONCONSULTING.COM
City/State/ZIP: ISSAQUAH WA 98027
Phone: 425 295 0839
Fax: 425 295 0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	METHODS FOR ANALYSIS: NWTPH-Dx	COMMENTS	LAB USE
1	1B-W-3-052014	2	5/20/14	1136	DK	N	G	W	X		
2	1C-W-7-052014	2		1225					X		
3	1C-W-8-052014	2		1324					X		
4	1C-W-80-052014	2		1600					X		
5											
6											
7											
8											
9											
10											
11										client drop	
12										Lg Blu/whi	
13										wet/bub	
14										AITB= 1.1/1.6	W/CS
15											

580-43715 Chain of Custody

	Date/Time:	Received By:	Date/Time:
Relinquished By:	5/22/14 0800	Tom Hunt	5/23/14 1320
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

Comments and Special Analytical Requirements:

Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No	Custody Seal No.	BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (0912)

5/28/2014

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-43715-1

Login Number: 43715

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	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	

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: 580-44190-1
Client Project/Site: BNSF Skykomish Groundwater Quarterly

For:
Farallon Consulting LLC
975 5th Avenue NW
Suite 100
Issaquah, Washington 98027

Attn: Gerald Portele

Authorized for release by:
7/11/2014 5:33:29 PM
Steve Crupi, Project Manager II
(253)248-4931
steve.crupi@testamericainc.com

Designee for

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

Table of Contents

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Job ID: 580-44190-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-44190-1

Receipt
The samples were received on 6/25/2014 4:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice.

Except:
Cooler receipt information was not recorded at time of sample drop off at the lab. Samples were recieved on ice and the lab will proceed with analysis

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): 1C-W-80-061814 (580-44190-4), 1C-W-8-061814 (580-44190-3). The container labels list 1C-W-8-061813 and IC-W-80-06181, while the COC lists 1C-W-8-061814 and IC-W-80-061814 respectively. The client has noted this on the COC and samples were logged in according to the COC..

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): 5-W-17-061714 (580-44190-21). The container labels list 13:05 as the sampling time, while the COC lists 14:05. The sample was logged in according to the COC.

GC Semi VOA
Method NWTPH-Dx: In analytical batch 162563, samples 1B-W-23-061714 (580-44190-24), 2A-W-42-061714 (580-44190-27), 5-W-15-061714 (580-44190-19), 5-W-18-061714 (580-44190-22), GW-1-061714 (580-44190-12) in preparation batch demonstrate esults in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges that appear to be due to a complex mixture of weathered/degraded diesel fuel and motor oil range products. The affected analyte ranges have been Y-qualified and reported.

Method NWTPH-Dx: In analytical batch 162563, samples 2A-W-41-061714 (580-44190-26), GW-20-061714 (580-44190-14), GW-2-061714 (580-44190-13), GW-30-061714 (580-44190-16), GW-3-061714 (580-44190-15) in preparation batch 162592 demonstrate results in the #2 Diesel Fuel (C10-C24) range that appear to be due primarily to weathered/degraded diesel fuel. The affected analyte range has been Y-qualified and reported.

Method NWTPH-Dx: In analytical batch 162627, samples 1B-W-3-061814 (580-44190-28), 1C-W-7-061814 (580-44190-2), 1C-W-80-061814 (580-44190-4), 1C-W-8-061814 (580-44190-3), 2A-W-10-061814 (580-44190-5) in preparation batch 162632: demonstrate results in the #2 Diesel Fuel (C10-C24) range that appear to be due primarily to weathered/degraded diesel fuel. The affected analyte range has been Y-qualified and reported.

Method NWTPH-Dx: In analytical batch 162627, samples 2A-W-9-061814 (580-44190-6), MW-3-061814 (580-44190-8), MW-4-061814 (580-44190-9) in preparation batch 162632: demonstrate results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges, which appear to be due to a complex mixture of weathered/degraded diesel fuel and motor oil range products. The affected analyte ranges have been Y-qualified and reported.

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

Organic Prep
Methods 3510C: In preparation batch 163023, sample 2A-W-40-061714 (580-44190-25) was re-prepared outside of preparation holding time due to low-failing surrogate recovery in the initial extraction attempt. Both the #2 Diesel and Motor Oil parameters were not detected in the initial analysis. #2 Diesel range was also ND in the reanalysis. The Motor Oil range yielded a result of 0.019 mg/L.

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Y	The chromatographic response resembles a typical fuel pattern.
H	Sample was prepped or analyzed beyond the specified holding time
B	Compound was found in the blank and sample.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 1C-W-1-061814
Date Collected: 06/18/14 13:05
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.015	J	0.024	0.014	mg/L		06/30/14 16:01	07/01/14 06:58	1
Motor Oil (>C24-C36)	0.017	J	0.047	0.0093	mg/L		06/30/14 16:01	07/01/14 06:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*50 - 150*	*06/30/14 16:01*	*07/01/14 06:58*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 1C-W-7-061814
Date Collected: 06/18/14 11:00
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.049	Y	0.024	0.014	mg/L		06/30/14 16:01	07/01/14 07:16	1
Motor Oil (>C24-C36)	0.035	J	0.048	0.0093	mg/L		06/30/14 16:01	07/01/14 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*06/30/14 16:01*	*07/01/14 07:16*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 1C-W-8-061814
Date Collected: 06/18/14 13:50
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.050	Y	0.024	0.014	mg/L		06/30/14 16:01	07/01/14 07:34	1
Motor Oil (>C24-C36)	0.030	J	0.048	0.0093	mg/L		06/30/14 16:01	07/01/14 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*06/30/14 16:01*	*07/01/14 07:34*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 1C-W-80-061814
Date Collected: 06/18/14 16:00
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.048	Y	0.024	0.014	mg/L		06/30/14 16:01	07/01/14 07:52	1
Motor Oil (>C24-C36)	0.029	J	0.048	0.0093	mg/L		06/30/14 16:01	07/01/14 07:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*50 - 150*	*06/30/14 16:01*	*07/01/14 07:52*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 2A-W-10-061814
Date Collected: 06/18/14 12:35
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.19	Y	0.024	0.014	mg/L		06/30/14 16:01	07/01/14 08:10	1
Motor Oil (>C24-C36)	0.30		0.048	0.0093	mg/L		06/30/14 16:01	07/01/14 08:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*06/30/14 16:01*	*07/01/14 08:10*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 2A-W-9-061814
Date Collected: 06/18/14 13:10
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.39	Y	0.024	0.014	mg/L		06/30/14 16:01	07/01/14 08:28	1
Motor Oil (>C24-C36)	0.23		0.047	0.0093	mg/L		06/30/14 16:01	07/01/14 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*06/30/14 16:01*	*07/01/14 08:28*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 2B-W-4-061814
Date Collected: 06/18/14 09:45
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-7
Matrix: Water

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		0.024	0.014	mg/L		06/30/14 16:01	07/01/14 09:05	1
Motor Oil (>C24-C36)	**0.0093**	**J**	0.047	0.0093	mg/L		06/30/14 16:01	07/01/14 09:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*06/30/14 16:01*	*07/01/14 09:05*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: MW-3-061814
Date Collected: 06/18/14 11:30
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.035	Y	0.024	0.014	mg/L		06/30/14 16:01	07/01/14 09:23	1
Motor Oil (>C24-C36)	0.062	Y	0.047	0.0093	mg/L		06/30/14 16:01	07/01/14 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*06/30/14 16:01*	*07/01/14 09:23*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: MW-4-061814
Date Collected: 06/18/14 12:05
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.084	Y	0.024	0.014	mg/L		06/30/14 16:01	07/01/14 09:41	1
Motor Oil (>C24-C36)	0.12	Y	0.047	0.0093	mg/L		06/30/14 16:01	07/01/14 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*06/30/14 16:01*	*07/01/14 09:41*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: EW-1-061714
Date Collected: 06/17/14 10:42
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.023	J	0.024	0.014	mg/L		06/30/14 11:22	07/01/14 00:56	1
Motor Oil (>C24-C36)	0.032	J	0.047	0.0093	mg/L		06/30/14 11:22	07/01/14 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*06/30/14 11:22*	*07/01/14 00:56*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: EW-2A-061814
Date Collected: 06/18/14 10:25
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.017	J	0.024	0.014	mg/L		06/30/14 16:01	07/01/14 09:59	1
Motor Oil (>C24-C36)	0.029	J	0.047	0.0093	mg/L		06/30/14 16:01	07/01/14 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*06/30/14 16:01*	*07/01/14 09:59*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: GW-1-061714
Date Collected: 06/17/14 12:03
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.035		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 01:14	1
Motor Oil (>C24-C36)	0.056		0.047	0.0093	mg/L		06/30/14 11:22	07/01/14 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*06/30/14 11:22*	*07/01/14 01:14*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: GW-2-061714
Date Collected: 06/17/14 12:15
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.028		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 01:32	1
Motor Oil (>C24-C36)	0.019	J	0.047	0.0093	mg/L		06/30/14 11:22	07/01/14 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*06/30/14 11:22*	*07/01/14 01:32*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: GW-20-061714
Date Collected: 06/17/14 16:00
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.031		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 01:50	1
Motor Oil (>C24-C36)	0.020	J	0.047	0.0092	mg/L		06/30/14 11:22	07/01/14 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*06/30/14 11:22*	*07/01/14 01:50*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: GW-3-061714
Date Collected: 06/17/14 15:45
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.069		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 02:08	1
Motor Oil (>C24-C36)	0.041	J	0.048	0.0093	mg/L		06/30/14 11:22	07/01/14 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*06/30/14 11:22*	*07/01/14 02:08*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: GW-30-061714
Date Collected: 06/17/14 16:01
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-16
Matrix: Water

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		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 02:26	1
Motor Oil (>C24-C36)	0.035	J	0.047	0.0093	mg/L		06/30/14 11:22	07/01/14 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*06/30/14 11:22*	*07/01/14 02:26*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: GW-4-061814
Date Collected: 06/18/14 12:00
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-17
Matrix: Water

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		0.024	0.014	mg/L		06/30/14 16:01	07/01/14 10:17	1
Motor Oil (>C24-C36)	**0.014**	**J**	0.048	0.0093	mg/L		06/30/14 16:01	07/01/14 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*06/30/14 16:01*	*07/01/14 10:17*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 5-W-14-061814
Date Collected: 06/17/14 15:05
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-18
Matrix: Water

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		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 02:45	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		06/30/14 11:22	07/01/14 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*50 - 150*	*06/30/14 11:22*	*07/01/14 02:45*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 5-W-15-061714
Date Collected: 06/17/14 13:10
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-19
Matrix: Water

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		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 03:03	1
Motor Oil (>C24-C36)	0.17		0.047	0.0093	mg/L		06/30/14 11:22	07/01/14 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*06/30/14 11:22*	*07/01/14 03:03*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 5-W-16-061714
Date Collected: 06/17/14 11:50
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.019	J	0.024	0.014	mg/L		06/30/14 11:22	07/01/14 03:21	1
Motor Oil (>C24-C36)	0.016	J	0.047	0.0093	mg/L		06/30/14 11:22	07/01/14 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*06/30/14 11:22*	*07/01/14 03:21*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 5-W-17-061714
Date Collected: 06/17/14 14:05
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-21
Matrix: Water

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		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 03:39	1
Motor Oil (>C24-C36)	ND		0.048	0.0093	mg/L		06/30/14 11:22	07/01/14 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*06/30/14 11:22*	*07/01/14 03:39*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 5-W-18-061714
Date Collected: 06/17/14 10:53
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.087		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 04:15	1
Motor Oil (>C24-C36)	0.11		0.047	0.0093	mg/L		06/30/14 11:22	07/01/14 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*50 - 150*	*06/30/14 11:22*	*07/01/14 04:15*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 5-W-19-061714
Date Collected: 06/17/14 10:00
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-23
Matrix: Water

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		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 04:33	1
Motor Oil (>C24-C36)	ND		0.048	0.0093	mg/L		06/30/14 11:22	07/01/14 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*06/30/14 11:22*	*07/01/14 04:33*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 1B-W-23-061714
Date Collected: 06/17/14 16:40
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-24
Matrix: Water

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		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 04:51	1
Motor Oil (>C24-C36)	0.15		0.048	0.0093	mg/L		06/30/14 11:22	07/01/14 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*06/30/14 11:22*	*07/01/14 04:51*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 2A-W-40-061714
Date Collected: 06/17/14 14:25
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-25
Matrix: Water

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	H	0.024	0.014	mg/L		07/03/14 16:09	07/08/14 04:37	1
Motor Oil (>C24-C36)	**0.019**	**J H B**	0.048	0.0093	mg/L		07/03/14 16:09	07/08/14 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*07/03/14 16:09*	*07/08/14 04:37*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 2A-W-41-061714
Date Collected: 06/17/14 14:08
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-26
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.037		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 05:27	1
Motor Oil (>C24-C36)	0.019	J	0.047	0.0093	mg/L		06/30/14 11:22	07/01/14 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*06/30/14 11:22*	*07/01/14 05:27*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 2A-W-42-061714
Date Collected: 06/17/14 15:55
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-27
Matrix: Water

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		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 05:45	1
Motor Oil (>C24-C36)	0.055		0.048	0.0093	mg/L		06/30/14 11:22	07/01/14 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*06/30/14 11:22*	*07/01/14 05:45*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 1B-W-3-061814
Date Collected: 06/18/14 10:07
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-28
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.039	Y	0.024	0.014	mg/L		06/30/14 16:01	07/01/14 10:35	1
Motor Oil (>C24-C36)	0.039	J	0.048	0.0093	mg/L		06/30/14 16:01	07/01/14 10:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*06/30/14 16:01*	*07/01/14 10:35*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 5-W-43-061714
Date Collected: 06/17/14 09:58
Date Received: 06/20/14 16:20

Lab Sample ID: 580-44190-29
Matrix: Water

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		0.024	0.014	mg/L		06/30/14 11:22	07/01/14 06:03	1
Motor Oil (>C24-C36)	**0.020**	**J**	0.047	0.0093	mg/L		06/30/14 11:22	07/01/14 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*06/30/14 11:22*	*07/01/14 06:03*	*1*

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

Lab Sample ID: MB 580-162592/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 162563 — **Prep Batch: 162592**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		06/30/14 11:22	06/30/14 22:49	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		06/30/14 11:22	06/30/14 22:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*06/30/14 11:22*	*06/30/14 22:49*	*1*

Lab Sample ID: LCS 580-162592/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 162563 — **Prep Batch: 162592**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.384		mg/L		77	59 - 120
Motor Oil (>C24-C36)	0.500	0.480		mg/L		96	71 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*85*		*50 - 150*

Lab Sample ID: LCSD 580-162592/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 162563 — **Prep Batch: 162592**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.333		mg/L		67	59 - 120	14	27
Motor Oil (>C24-C36)	0.500	0.423		mg/L		85	71 - 140	13	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*76*		*50 - 150*

Lab Sample ID: MB 580-162632/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 162627 — **Prep Batch: 162632**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		06/30/14 16:01	07/01/14 05:45	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		06/30/14 16:01	07/01/14 05:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*06/30/14 16:01*	*07/01/14 05:45*	*1*

Lab Sample ID: LCS 580-162632/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 162627 — **Prep Batch: 162632**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.330		mg/L		66	59 - 120
Motor Oil (>C24-C36)	0.500	0.422		mg/L		84	71 - 140

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

Lab Sample ID: LCS 580-162632/2-A
Matrix: Water
Analysis Batch: 162627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162632

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	75		50 - 150

Lab Sample ID: LCSD 580-162632/3-A
Matrix: Water
Analysis Batch: 162627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 162632

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.345		mg/L		69	59 - 120	4	27
Motor Oil (>C24-C36)			0.500	0.376		mg/L		75	71 - 140	12	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	72		50 - 150

Lab Sample ID: MB 580-163023/1-A
Matrix: Water
Analysis Batch: 163131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 163023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		07/03/14 16:09	07/08/14 03:50	1
Motor Oil (>C24-C36)	0.0189	J	0.050	0.0098	mg/L		07/03/14 16:09	07/08/14 03:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150	07/03/14 16:09	07/08/14 03:50	1

Lab Sample ID: LCS 580-163023/2-A
Matrix: Water
Analysis Batch: 163131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 163023

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			0.500	0.452		mg/L		90	59 - 120
Motor Oil (>C24-C36)			0.500	0.522		mg/L		104	71 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	95		50 - 150

Lab Sample ID: LCSD 580-163023/3-A
Matrix: Water
Analysis Batch: 163131

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 163023

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.373		mg/L		75	59 - 120	19	27
Motor Oil (>C24-C36)			0.500	0.502		mg/L		100	71 - 140	4	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	84		50 - 150

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 1C-W-1-061814
Lab Sample ID: 580-44190-1
Date Collected: 06/18/14 13:05
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 06:58	JJP	TAL SEA

Client Sample ID: 1C-W-7-061814
Lab Sample ID: 580-44190-2
Date Collected: 06/18/14 11:00
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 07:16	JJP	TAL SEA

Client Sample ID: 1C-W-8-061814
Lab Sample ID: 580-44190-3
Date Collected: 06/18/14 13:50
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 07:34	JJP	TAL SEA

Client Sample ID: 1C-W-80-061814
Lab Sample ID: 580-44190-4
Date Collected: 06/18/14 16:00
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 07:52	JJP	TAL SEA

Client Sample ID: 2A-W-10-061814
Lab Sample ID: 580-44190-5
Date Collected: 06/18/14 12:35
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 08:10	JJP	TAL SEA

Client Sample ID: 2A-W-9-061814
Lab Sample ID: 580-44190-6
Date Collected: 06/18/14 13:10
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 08:28	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 2B-W-4-061814

Lab Sample ID: 580-44190-7

Date Collected: 06/18/14 09:45
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 09:05	JJP	TAL SEA

Client Sample ID: MW-3-061814

Lab Sample ID: 580-44190-8

Date Collected: 06/18/14 11:30
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 09:23	JJP	TAL SEA

Client Sample ID: MW-4-061814

Lab Sample ID: 580-44190-9

Date Collected: 06/18/14 12:05
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 09:41	JJP	TAL SEA

Client Sample ID: EW-1-061714

Lab Sample ID: 580-44190-10

Date Collected: 06/17/14 10:42
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 00:56	JJP	TAL SEA

Client Sample ID: EW-2A-061814

Lab Sample ID: 580-44190-11

Date Collected: 06/18/14 10:25
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 09:59	JJP	TAL SEA

Client Sample ID: GW-1-061714

Lab Sample ID: 580-44190-12

Date Collected: 06/17/14 12:03
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 01:14	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: GW-2-061714

Lab Sample ID: 580-44190-13

Date Collected: 06/17/14 12:15
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 01:32	JJP	TAL SEA

Client Sample ID: GW-20-061714

Lab Sample ID: 580-44190-14

Date Collected: 06/17/14 16:00
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 01:50	JJP	TAL SEA

Client Sample ID: GW-3-061714

Lab Sample ID: 580-44190-15

Date Collected: 06/17/14 15:45
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 02:08	JJP	TAL SEA

Client Sample ID: GW-30-061714

Lab Sample ID: 580-44190-16

Date Collected: 06/17/14 16:01
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 02:26	JJP	TAL SEA

Client Sample ID: GW-4-061814

Lab Sample ID: 580-44190-17

Date Collected: 06/18/14 12:00
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 10:17	JJP	TAL SEA

Client Sample ID: 5-W-14-061814

Lab Sample ID: 580-44190-18

Date Collected: 06/17/14 15:05
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 02:45	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 5-W-15-061714
Lab Sample ID: 580-44190-19
Date Collected: 06/17/14 13:10
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 03:03	JJP	TAL SEA

Client Sample ID: 5-W-16-061714
Lab Sample ID: 580-44190-20
Date Collected: 06/17/14 11:50
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 03:21	JJP	TAL SEA

Client Sample ID: 5-W-17-061714
Lab Sample ID: 580-44190-21
Date Collected: 06/17/14 14:05
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 03:39	JJP	TAL SEA

Client Sample ID: 5-W-18-061714
Lab Sample ID: 580-44190-22
Date Collected: 06/17/14 10:53
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 04:15	JJP	TAL SEA

Client Sample ID: 5-W-19-061714
Lab Sample ID: 580-44190-23
Date Collected: 06/17/14 10:00
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 04:33	JJP	TAL SEA

Client Sample ID: 1B-W-23-061714
Lab Sample ID: 580-44190-24
Date Collected: 06/17/14 16:40
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 04:51	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Client Sample ID: 2A-W-40-061714

Lab Sample ID: 580-44190-25

Date Collected: 06/17/14 14:25
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			163023	07/03/14 16:09	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	163131	07/08/14 04:37	JJP	TAL SEA

Client Sample ID: 2A-W-41-061714

Lab Sample ID: 580-44190-26

Date Collected: 06/17/14 14:08
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 05:27	JJP	TAL SEA

Client Sample ID: 2A-W-42-061714

Lab Sample ID: 580-44190-27

Date Collected: 06/17/14 15:55
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 05:45	JJP	TAL SEA

Client Sample ID: 1B-W-3-061814

Lab Sample ID: 580-44190-28

Date Collected: 06/18/14 10:07
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162632	06/30/14 16:01	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162627	07/01/14 10:35	JJP	TAL SEA

Client Sample ID: 5-W-43-061714

Lab Sample ID: 580-44190-29

Date Collected: 06/17/14 09:58
Matrix: Water
Date Received: 06/20/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			162592	06/30/14 11:22	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	162563	07/01/14 06:03	JJP	TAL SEA

Laboratory References:

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

Certification Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-112	05-27-15
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

* Certification renewal pending - certification considered valid.

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-44190-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-44190-1	1C-W-1-061814	Water	06/18/14 13:05	06/20/14 16:20
580-44190-2	1C-W-7-061814	Water	06/18/14 11:00	06/20/14 16:20
580-44190-3	1C-W-8-061814	Water	06/18/14 13:50	06/20/14 16:20
580-44190-4	1C-W-80-061814	Water	06/18/14 16:00	06/20/14 16:20
580-44190-5	2A-W-10-061814	Water	06/18/14 12:35	06/20/14 16:20
580-44190-6	2A-W-9-061814	Water	06/18/14 13:10	06/20/14 16:20
580-44190-7	2B-W-4-061814	Water	06/18/14 09:45	06/20/14 16:20
580-44190-8	MW-3-061814	Water	06/18/14 11:30	06/20/14 16:20
580-44190-9	MW-4-061814	Water	06/18/14 12:05	06/20/14 16:20
580-44190-10	EW-1-061714	Water	06/17/14 10:42	06/20/14 16:20
580-44190-11	EW-2A-061814	Water	06/18/14 10:25	06/20/14 16:20
580-44190-12	GW-1-061714	Water	06/17/14 12:03	06/20/14 16:20
580-44190-13	GW-2-061714	Water	06/17/14 12:15	06/20/14 16:20
580-44190-14	GW-20-061714	Water	06/17/14 16:00	06/20/14 16:20
580-44190-15	GW-3-061714	Water	06/17/14 15:45	06/20/14 16:20
580-44190-16	GW-30-061714	Water	06/17/14 16:01	06/20/14 16:20
580-44190-17	GW-4-061814	Water	06/18/14 12:00	06/20/14 16:20
580-44190-18	5-W-14-061814	Water	06/17/14 15:05	06/20/14 16:20
580-44190-19	5-W-15-061714	Water	06/17/14 13:10	06/20/14 16:20
580-44190-20	5-W-16-061714	Water	06/17/14 11:50	06/20/14 16:20
580-44190-21	5-W-17-061714	Water	06/17/14 14:05	06/20/14 16:20
580-44190-22	5-W-18-061714	Water	06/17/14 10:53	06/20/14 16:20
580-44190-23	5-W-19-061714	Water	06/17/14 10:00	06/20/14 16:20
580-44190-24	1B-W-23-061714	Water	06/17/14 16:40	06/20/14 16:20
580-44190-25	2A-W-40-061714	Water	06/17/14 14:25	06/20/14 16:20
580-44190-26	2A-W-41-061714	Water	06/17/14 14:08	06/20/14 16:20
580-44190-27	2A-W-42-061714	Water	06/17/14 15:55	06/20/14 16:20
580-44190-28	1B-W-3-061814	Water	06/18/14 10:07	06/20/14 16:20
580-44190-29	5-W-43-061714	Water	06/17/14 09:58	06/20/14 16:20

BNSF RAILWAY

CHAIN OF CUSTODY

LAB WORK ORDER: 580 44190

LABORATORY INFORMATION

Laboratory: TEST AMERICA
Project Manager: CHRIS ALLEN
Address: 5755 8TH St E
Phone: 253 922 2310
City/State/ZIP: TACOMA, WA 98424
Fax:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

Project State of Origin: WA
BNSF Project Number:
Project City: SKYKOMISH
BNSF Project Name: BNSF SKYKOMISH GROUNDWATER QUARTERLY
BNSF Contact: BRUCE SHEPPARD
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: Farallon
Project Number: 683-043
Project Manager: Jerry Portele
Address: 975 5th Ave NW
Email: JPortele@FarallonConsulting.com
City/State/ZIP: Issaquah, WA 98027
Phone: (425) 295-0800
Fax: 425 295 0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	NWTPH-Dx								COMMENTS	LAB USE
1	1C-W-1-061814 -1	2	6/18/14	1305		N		water	X									
2	1C-W-7-061814 -2	2	6/18/14	1100		N		water	X									
3	1C-W-8-061814 -3	2	6/18/14	1350		N		water	X								* Incorrectly labeled as 1C-W-8-061813 on the bottles.	
4	1C-W-80-061814 -4	2	6/18/14	~~1600~~ 1600		N		water	X								* Incorrectly labeled as 1C-W-80-061813 on the bottles.	
5	2A-W-10-061814 -5	2	6/18/14	1235		N		water	X									
6	2A-W-9-061814 -6	2	6/18/14	1310		N		water	X									
7	2B-W-4-061814 -7	2	6/18/14	0945		N		water	X									
8	MW-3-061814 -8	2	6/18/14	1130		N		water	X									
9	MW-4-061814 -9	2	6/18/14	1205		N		water	X									
10	EW-1-061714 -10	2	6/17/14	1042		N		water	X									
11	EW-2A-061814 -11	2	6/18/14	1025		N		water	X									
12	GW-1-061714 -12	2	6/17/14	1203		N		water	X									
13	GW-2-061714 -13	2	6/17/14	1215		N		water	X									
14	GW-20-061714 -14	2	6/17/14	1600		N		water	X									
15	GW-3-061714 -15	2	6/17/14	1545		N		water	X									

580-44190 Chain of Custody

Relinquished By:	Date/Time: 6/20/14 0945	Received By:	Date/Time: 6/20/14 1630	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? ☐ Yes ☐ No	Custody Seal No.. / BNSF COC No.

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES
DUPLICATE - CONSULTANT
TAL-1001 (06/08)

7/11/2014

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA
Project Manager: CHRIS ALLEN
Address: 5755 8TH St E
Phone: 253 922 2310
City/State/ZIP: TACOMA, WA 98424
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

Project State of Origin: WA
BNSF Project Number:
Project City: SKYKOMISH
BNSF Project Name: BNSF SKYKOMISH GROUNDWATER QUARTERLY
BNSF Contact: BRUCE SHEPPARD
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: Farallon
Project Number: 683-043
Project Manager: Jerry Portele
Address: 975 5th Ave NW
Email: JPortele@FarallonConsulting.com
City/State/ZIP: Issaquah, WA 98027
Phone: (425) 295-0800
Fax: 425 295 0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] 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 Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	NWTPH-Dx								COMMENTS	LAB USE
1	GW-30-061714 - 16	2	6/17/14	1601		N		water	X									
2	GW-4-061814 - 17	2	6/18/14	1200		N		water	X									
3	5-W-14-061714 - 18	2	6/17/14	1505		N		water	X									
4	5-W-15-061714 - 19	2	6/17/14	1310		N		water	X									
5	5-W-16-061714 - 20	2	6/17/14	1150		N		water	X									
6	5-W-17-061714 - 21	2	6/17/14	1405		N		water	X									
7	5-W-18-061714 - 22	2	6/17/14	1053		N		water	X									
8	5-W-19-061714 - 23	2	6/17/14	1000		N		water	X									
9	1B-W-23-061714 - 24	2	6/17/14	1640		N		water	X								water slightly turbid when sampled	
10	2A-W-40-061714 - 25	2	6/17/14	1425		N		water	X									
11	2A-W-41-061714 - 26	2	6/17/14	1408		N		water	X									
12	2A-W-42-061714 - 27	2	6/17/14	1555		N		water	X									
13	1B-W-3-061814 - 28	2	6/18/14	1007		N		water	X									
14	5-W-43-061714 - 29	2	6/17/14	0958		N		water	X									
15																		

Relinquished By:	Date/Time: 6/20/14 0945	Received By:	Date/Time: 6/20/14 1620
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 (06/08)

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-44190-1

Login Number: 44190

List Source: TestAmerica Seattle

List Number: 1

Creator: Kim, Guerry

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	False	samples received on ice.
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.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	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.	N/A	
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").	True	
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: 580-45475-1
Client Project/Site: BNSF Skykomish Cleanup Activities

For:
Farallon Consulting LLC
975 5th Avenue NW
Suite 100
Issaquah, Washington 98027

Attn: Gerald Portele

Kristine D. Allen

Authorized for release by:
10/6/2014 3:45:51 PM

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

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Job ID: 580-45475-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 9/19/2014 4:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 0.4º C, 0.7º C, 0.9º C, 0.9º C, 1.2º C, 1.4º C, 2.1º C, 2.5º C, 2.5º C, 2.9º C and 3.7º C.

GC Semi VOA

Method(s) NWTPH-Dx: In analytical batch 171084, for the following samples from preparation batch 170522: (MB 580-170522/1-A), GW-1-091614 (580-45475-1), GW-20-091614 (580-45475-3), GW-2-091614 (580-45475-2), GW-30-091714 (580-45475-5), GW-3-091714 (580-45475-4), GW-4-091814 (580-45475-6), IC-W-1-091814 (580-45475-16), IC-W-7-091814 (580-45475-17), IC-W-80-091814 (580-45475-19), IC-W-8-091814 (580-45475-18), S1-AD-091714 (580-45475-7), S1-AU-091714 (580-45475-8), S1-BD-091714 (580-45475-9), S1-BU-091714 (580-45475-10), S2-AD-091714 (580-45475-11), S2-AU-091714 (580-45475-12), S2-BD-091714 (580-45475-13), S2-BDO-091714 (580-45475-14), S2-BU-091714 (580-45475-15), The method blank contained Motor Oil (>C24-C32) above the method detection limit. This target analyte concentration was less than half the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) NWTPH-Dx: In analysis batch 171351, the method blank for preparation batch 170586 contained Motor Oil (>C24-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) NWTPH-Dx: In analysis batch 171341, for the following samples from preparation batch 171105: (MB 580-171105/1-A), 1A-W-4-091714 (580-45475-55), 1B-W-2-091714 (580-45475-56), 1B-W-3-091714 (580-45475-57), 1C-W-3-091814 (580-45475-58), 1C-W-4-091814 (580-45475-59), 5-W-14-091614 (580-45475-43), 5-W-150-091614 (580-45475-45), 5-W-15-091614 (580-45475-44), 5-W-16-091614 (580-45475-46), 5-W-17-091614 (580-45475-47), 5-W-18-091614 (580-45475-48), 5-W-19-091614 (580-45475-49), 5-W-43-091614 (580-45475-50), 5-W-50-091614 (580-45475-51), 5-W-54-091614 (580-45475-52), 5-W-55-091614 (580-45475-53), 5-W-56-091614 (580-45475-54), S4-BU-091714 (580-45475-40), S4-CD-091714 (580-45475-41), S4-CU-091714 (580-45475-42), the method blank contained #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) NWTPH-Dx: In analysis batch 174084, for the following sample(s) from preparation batch 170522: GW-1-091614 (580-45475-1), GW-20-091614 (580-45475-3), GW-2-091614 (580-45475-2), GW-4-091814 (580-45475-6), IC-W-1-091814 (580-45475-16), IC-W-7-091814 (580-45475-17), IC-W-80-091814 (580-45475-19), IC-W-8-091814 (580-45475-18), S2-BU-091714 (580-45475-15), the results in the #2 Diesel Fuel (C10-C24) range(s) are due primarily to weathered/degraded diesel fuel. The affected analyte range(s) have beenY qualified and reported.

Method(s) NWTPH-Dx: In analysis batch 171084, for the following sample(s) from preparation batch 170522: GW-30-091714 (580-45475-5), GW-3-091714 (580-45475-4), the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) range(s) are due primarily to weathered/degraded diesel fuel and look to be overlapping into the Motor Oil (>C24-C36) range. The affected analyte range(s) have been Y qualified and reported.

Method(s) NWTPH-Dx: In analysis batch 171461, for the following sample from preparation batch 171156: MW-38R-091614 (580-45475-61), the results in the #2 Diesel Fuel (C10-C24) range(s) are due to what most closely resembles a mineral/transformer oil range product. The affected analyte range(s) have been Y qualified and reported.

Method(s) NWTPH-Dx: In analysis batch 171341, for the following sample from preparation batch 171105: 5-W-56-091614 (580-45475-54), the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges are due to what most closely resembles a complex mixture of heavily weathered/degraded diesel fuel, a mineral/transformer oil range product, and possible biogenic interference; method 3630 silica gel cleanup procedure is recommended. The affected analyte range(s) have been Y qualified and reported.

Method(s) NWTPH-Dx: In analysis batch 171341, for the following sample from preparation batch 171105: 1B-W-2-091714 (580-45475-56), 5-W-150-091614 (580-45475-45), 5-W-15-091614 (580-45475-44), 5-W-18-091614 (580-45475-48), 5-W-50-091614 (580-45475-51), 5-W-55-091614 (580-45475-53), the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) range(s) are due to a complex mixture of what most closely resembles heavily weathered/degraded diesel fuel and a mineral/transformer oil range product. The affected analyte range(s) have been Y qualified and reported.

Method(s) NWTPH-Dx: In analysis batch 171341, for the following sample(s) from preparation batch 171105: 1C-W-4-091814 (580-45475-59), 5-W-54-091614 (580-45475-52), the results in the #2 Diesel Fuel (C10-C24) range are due to what most closely

Job ID: 580-45475-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

resembles a mineral/transformer oil range product. The affected analyte range(s) have been Y qualified and reported.

Method(s) NWTPH-Dx: In analysis batch 171351, for the following samples from preparation batch 170586: 2A-W-100-091814 (580-45475-25), 2A-W-10-091714 (580-45475-24), IB-W-23-091714 (580-45475-20), the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges are due to what most closely resembles a complex mixture of a hydraulic oil or similar product, motor oil and possible biogenic interference; method 3630 silica gel cleanup procedure is recommended. The affected analyte ranges have been Y qualified and reported.

Method(s) NWTPH-Dx: In analysis batch 171351, for the following samples from preparation batch 170586: MW-3-091814 (580-45475-27), the results in the Motor Oil (>C24-C36) range are due to what most closely resembles a complex mixture of a hydraulic oil or similar product, motor oil and possible biogenic interference; method 3630 silica gel cleanup procedure is recommended. The affected analyte range has been Y qualified and reported.

Method(s) NWTPH-Dx: In analysis batch 171351, for the following samples from preparation batch 170586: 2A-W-41-091714 (580-45475-22), 2A-W-42-091714 (580-45475-23), MW-4-091814 (580-45475-28), the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges are due to what most closely resembles a complex mixture of a mineral/transformer oil range product and possible biogenic interference; method 3630 silica gel cleanup procedure is recommended. The affected analyte ranges have been Y qualified and reported.

Method(s) NWTPH-Dx: In analysis batch 171351, for the following samples from preparation batch 170586: EW-1-091614 (580-45475-29), the results in the #2 Diesel Fuel (C10-C24) range are due to what most closely resembles a complex mixture of a mineral/transformer oil range product and possible biogenic interference; method 3630 silica gel cleanup procedure is recommended. The affected analyte range has been Y qualified and reported.

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.

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: GW-1-091614
Date Collected: 09/16/14 17:58
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.026	Y	0.024	0.014	mg/L		09/23/14 10:47	09/29/14 22:27	1
Motor Oil (>C24-C36)	0.044	J B	0.047	0.0093	mg/L		09/23/14 10:47	09/29/14 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*50 - 150*	*09/23/14 10:47*	*09/29/14 22:27*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: GW-2-091614
Date Collected: 09/16/14 16:09
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.057	Y	0.024	0.014	mg/L		09/23/14 10:47	09/29/14 22:46	1
Motor Oil (>C24-C36)	0.036	J B	0.048	0.0094	mg/L		09/23/14 10:47	09/29/14 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*50 - 150*	*09/23/14 10:47*	*09/29/14 22:46*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: GW-20-091614
Date Collected: 09/16/14 16:12
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.054	Y	0.024	0.014	mg/L		09/23/14 10:47	09/29/14 23:05	1
Motor Oil (>C24-C36)	0.032	J B	0.048	0.0093	mg/L		09/23/14 10:47	09/29/14 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*50 - 150*	*09/23/14 10:47*	*09/29/14 23:05*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: GW-3-091714
Date Collected: 09/17/14 09:20
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.30	Y	0.024	0.014	mg/L		09/23/14 10:47	09/29/14 23:24	1
Motor Oil (>C24-C36)	0.14	B Y	0.047	0.0093	mg/L		09/23/14 10:47	09/29/14 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*09/23/14 10:47*	*09/29/14 23:24*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: GW-30-091714
Date Collected: 09/17/14 13:00
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-5
Matrix: Water

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	Y	0.024	0.014	mg/L		09/23/14 10:47	09/29/14 23:43	1
Motor Oil (>C24-C36)	0.14	B Y	0.047	0.0093	mg/L		09/23/14 10:47	09/29/14 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*09/23/14 10:47*	*09/29/14 23:43*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: GW-4-091814
Date Collected: 09/18/14 10:05
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.028	Y	0.024	0.014	mg/L		09/23/14 10:47	09/30/14 00:02	1
Motor Oil (>C24-C36)	0.037	J B	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*50 - 150*	*09/23/14 10:47*	*09/30/14 00:02*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S1-AD-091714
Date Collected: 09/17/14 16:12
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-7
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 10:47	09/30/14 00:21	1
Motor Oil (>C24-C36)	**0.019**	**J B**	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*09/23/14 10:47*	*09/30/14 00:21*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S1-AU-091714
Date Collected: 09/17/14 16:35
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-8
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 10:47	09/30/14 00:40	1
Motor Oil (>C24-C36)	**0.023**	**J B**	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*09/23/14 10:47*	*09/30/14 00:40*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S1-BD-091714
Date Collected: 09/17/14 16:10
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-9
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 10:47	09/30/14 00:59	1
Motor Oil (>C24-C36)	**0.014**	**J B**	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*09/23/14 10:47*	*09/30/14 00:59*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S1-BU-091714
Date Collected: 09/17/14 16:35
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-10
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 10:47	09/30/14 01:18	1
Motor Oil (>C24-C36)	**0.022**	**J B**	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*50 - 150*	*09/23/14 10:47*	*09/30/14 01:18*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S2-AD-091714
Date Collected: 09/17/14 17:05
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-11
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 10:47	09/30/14 01:55	1
Motor Oil (>C24-C36)	**0.017**	**J B**	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*50 - 150*	*09/23/14 10:47*	*09/30/14 01:55*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S2-AU-091714
Date Collected: 09/17/14 17:03
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-12
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 10:47	09/30/14 02:14	1
Motor Oil (>C24-C36)	**0.016**	**J B**	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*50 - 150*	*09/23/14 10:47*	*09/30/14 02:14*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S2-BD-091714
Date Collected: 09/17/14 16:10
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-13
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 10:47	09/30/14 02:33	1
Motor Oil (>C24-C36)	**0.015**	**J B**	0.048	0.0093	mg/L		09/23/14 10:47	09/30/14 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*50 - 150*	*09/23/14 10:47*	*09/30/14 02:33*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S2-BDO-091714
Date Collected: 09/17/14 16:20
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-14
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 10:47	09/30/14 02:52	1
Motor Oil (>C24-C36)	**0.014**	**J B**	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*09/23/14 10:47*	*09/30/14 02:52*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S2-BU-091714
Date Collected: 09/17/14 16:38
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.027	Y	0.024	0.014	mg/L		09/23/14 10:47	09/30/14 03:10	1
Motor Oil (>C24-C36)	0.022	J B	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*50 - 150*	*09/23/14 10:47*	*09/30/14 03:10*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: IC-W-1-091814
Date Collected: 09/18/14 11:28
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.032	Y	0.024	0.014	mg/L		09/23/14 10:47	09/30/14 03:29	1
Motor Oil (>C24-C36)	0.033	J B	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*50 - 150*	*09/23/14 10:47*	*09/30/14 03:29*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: IC-W-7-091814
Date Collected: 09/18/14 10:10
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.065	Y	0.024	0.014	mg/L		09/23/14 10:47	09/30/14 03:48	1
Motor Oil (>C24-C36)	0.043	J B	0.048	0.0093	mg/L		09/23/14 10:47	09/30/14 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*50 - 150*	*09/23/14 10:47*	*09/30/14 03:48*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: IC-W-8-091814
Date Collected: 09/18/14 11:25
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.028	Y	0.024	0.014	mg/L		09/23/14 10:47	09/30/14 04:07	1
Motor Oil (>C24-C36)	0.031	J B	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*09/23/14 10:47*	*09/30/14 04:07*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: IC-W-80-091814
Date Collected: 09/18/14 12:00
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.028	Y	0.024	0.014	mg/L		09/23/14 10:47	09/30/14 04:25	1
Motor Oil (>C24-C36)	0.032	J B	0.047	0.0093	mg/L		09/23/14 10:47	09/30/14 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*137*		*50 - 150*	*09/23/14 10:47*	*09/30/14 04:25*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: IB-W-23-091714
Date Collected: 09/17/14 09:13
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.045	Y	0.024	0.014	mg/L		09/23/14 17:19	10/02/14 21:25	1
Motor Oil (>C24-C36)	0.093	B Y	0.047	0.0093	mg/L		09/23/14 17:19	10/02/14 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*09/23/14 17:19*	*10/02/14 21:25*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 2A-W-40-091714
Date Collected: 09/17/14 09:33
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-21
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 17:19	10/02/14 21:49	1
Motor Oil (>C24-C36)	**0.012**	**J B**	0.047	0.0093	mg/L		09/23/14 17:19	10/02/14 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*09/23/14 17:19*	*10/02/14 21:49*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 2A-W-41-091714
Date Collected: 09/17/14 11:09
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.16	Y	0.024	0.014	mg/L		09/23/14 17:19	10/02/14 22:13	1
Motor Oil (>C24-C36)	0.12	B Y	0.047	0.0093	mg/L		09/23/14 17:19	10/02/14 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*09/23/14 17:19*	*10/02/14 22:13*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 2A-W-42-091714
Date Collected: 09/17/14 11:57
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-23
Matrix: Water

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	Y	0.024	0.014	mg/L		09/23/14 17:19	10/02/14 22:37	1
Motor Oil (>C24-C36)	0.11	B Y	0.047	0.0093	mg/L		09/23/14 17:19	10/02/14 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*09/23/14 17:19*	*10/02/14 22:37*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 2A-W-10-091714
Date Collected: 09/17/14 14:44
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-24
Matrix: Water

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	Y	0.024	0.014	mg/L		09/23/14 17:19	10/02/14 23:01	1
Motor Oil (>C24-C36)	0.20	B Y	0.048	0.0093	mg/L		09/23/14 17:19	10/02/14 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*09/23/14 17:19*	*10/02/14 23:01*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 2A-W-100-091814
Date Collected: 09/18/14 14:54
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-25
Matrix: Water

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	Y	0.024	0.014	mg/L		09/23/14 17:19	10/02/14 23:25	1
Motor Oil (>C24-C36)	0.25	B Y	0.047	0.0093	mg/L		09/23/14 17:19	10/02/14 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*09/23/14 17:19*	*10/02/14 23:25*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 2B-W-4-091814
Date Collected: 09/18/14 13:33
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-26
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 17:19	10/02/14 23:48	1
Motor Oil (>C24-C36)	**0.015**	**J B**	0.048	0.0093	mg/L		09/23/14 17:19	10/02/14 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*09/23/14 17:19*	*10/02/14 23:48*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: MW-3-091814
Date Collected: 09/18/14 12:33
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-27
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.021	J	0.024	0.014	mg/L		09/23/14 17:19	10/03/14 00:12	1
Motor Oil (>C24-C36)	0.049	B Y	0.048	0.0093	mg/L		09/23/14 17:19	10/03/14 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*50 - 150*	*09/23/14 17:19*	*10/03/14 00:12*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: MW-4-091814
Date Collected: 09/18/14 14:25
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-28
Matrix: Water

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	Y	0.024	0.014	mg/L		09/23/14 17:19	10/03/14 00:36	1
Motor Oil (>C24-C36)	0.14	B Y	0.047	0.0093	mg/L		09/23/14 17:19	10/03/14 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*09/23/14 17:19*	*10/03/14 00:36*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: EW-1-091614
Date Collected: 09/16/14 13:08
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-29
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.031	Y	0.024	0.014	mg/L		09/23/14 17:19	10/03/14 01:24	1
Motor Oil (>C24-C36)	0.038	J B	0.047	0.0093	mg/L		09/23/14 17:19	10/03/14 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*50 - 150*	*09/23/14 17:19*	*10/03/14 01:24*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: EW-2A-091814
Date Collected: 09/18/14 10:00
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-30
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 17:19	10/03/14 01:47	1
Motor Oil (>C24-C36)	**0.017**	**J B**	0.048	0.0093	mg/L		09/23/14 17:19	10/03/14 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*50 - 150*	*09/23/14 17:19*	*10/03/14 01:47*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S3-AD-091714
Date Collected: 09/17/14 15:09
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-31
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.014	J	0.024	0.014	mg/L		09/23/14 17:19	10/03/14 02:11	1
Motor Oil (>C24-C36)	0.011	J B	0.047	0.0093	mg/L		09/23/14 17:19	10/03/14 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*50 - 150*	*09/23/14 17:19*	*10/03/14 02:11*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S3-AU-091714
Date Collected: 09/17/14 15:33
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-32
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.023	J	0.024	0.014	mg/L		09/23/14 17:19	10/03/14 02:35	1
Motor Oil (>C24-C36)	0.015	J B	0.047	0.0093	mg/L		09/23/14 17:19	10/03/14 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*09/23/14 17:19*	*10/03/14 02:35*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S3-BD-091714
Date Collected: 09/17/14 15:13
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-33
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.017	J	0.024	0.014	mg/L		09/23/14 17:19	10/03/14 02:59	1
Motor Oil (>C24-C36)	0.013	J B	0.048	0.0093	mg/L		09/23/14 17:19	10/03/14 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*09/23/14 17:19*	*10/03/14 02:59*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S3-BU-091714
Date Collected: 09/17/14 15:33
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-34
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.020	J	0.024	0.014	mg/L		09/23/14 17:19	10/03/14 03:22	1
Motor Oil (>C24-C36)	0.015	J B	0.048	0.0093	mg/L		09/23/14 17:19	10/03/14 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*09/23/14 17:19*	*10/03/14 03:22*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S3-CD-091714
Date Collected: 09/17/14 15:10
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-35
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 17:19	10/03/14 03:46	1
Motor Oil (>C24-C36)	**0.010**	**J B**	0.048	0.0093	mg/L		09/23/14 17:19	10/03/14 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*09/23/14 17:19*	*10/03/14 03:46*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S3-CU-091714
Date Collected: 09/17/14 15:30
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-36
Matrix: Water

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		0.024	0.014	mg/L		09/23/14 17:19	10/03/14 04:10	1
Motor Oil (>C24-C36)	**0.011**	**J B**	0.048	0.0093	mg/L		09/23/14 17:19	10/03/14 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*09/23/14 17:19*	*10/03/14 04:10*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S4-AD-091714
Date Collected: 09/17/14 14:08
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-37
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.022	J	0.024	0.014	mg/L		09/23/14 17:19	10/03/14 04:33	1
Motor Oil (>C24-C36)	0.026	J B	0.048	0.0093	mg/L		09/23/14 17:19	10/03/14 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*50 - 150*	*09/23/14 17:19*	*10/03/14 04:33*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S4-AU-091714
Date Collected: 09/17/14 14:25
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-38
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.019	J	0.024	0.014	mg/L		09/23/14 17:19	10/03/14 04:57	1
Motor Oil (>C24-C36)	0.012	J B	0.048	0.0093	mg/L		09/23/14 17:19	10/03/14 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*09/23/14 17:19*	*10/03/14 04:57*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S4-BD-091714
Date Collected: 09/17/14 14:15
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-39
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.018	J	0.024	0.014	mg/L		09/23/14 17:19	10/03/14 05:44	1
Motor Oil (>C24-C36)	0.019	J B	0.047	0.0093	mg/L		09/23/14 17:19	10/03/14 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*09/23/14 17:19*	*10/03/14 05:44*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S4-BU-091714
Date Collected: 09/17/14 14:40
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-40
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.021	J B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 07:58	1
Motor Oil (>C24-C36)	0.046	J B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 07:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*50 - 150*	*09/29/14 09:53*	*10/02/14 07:58*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S4-CD-091714
Date Collected: 09/17/14 14:03
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-41
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.016	J B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 08:17	1
Motor Oil (>C24-C36)	0.017	J B	0.048	0.0093	mg/L		09/29/14 09:53	10/02/14 08:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*09/29/14 09:53*	*10/02/14 08:17*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S4-CU-091714
Date Collected: 09/17/14 14:25
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-42
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.019	J B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 08:35	1
Motor Oil (>C24-C36)	0.022	J B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 08:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*50 - 150*	*09/29/14 09:53*	*10/02/14 08:35*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-14-091614
Date Collected: 09/16/14 12:08
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-43
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.015	J B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 08:54	1
Motor Oil (>C24-C36)	0.017	J B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 08:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*50 - 150*	*09/29/14 09:53*	*10/02/14 08:54*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-15-091614
Date Collected: 09/16/14 10:33
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-44
Matrix: Water

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	Y B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 09:13	1
Motor Oil (>C24-C36)	0.25	Y B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 09:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*50 - 150*	*09/29/14 09:53*	*10/02/14 09:13*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-150-091614
Date Collected: 09/16/14 10:35
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-45
Matrix: Water

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	Y B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 09:31	1
Motor Oil (>C24-C36)	0.23	Y B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*09/29/14 09:53*	*10/02/14 09:31*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-16-091614
Date Collected: 09/16/14 10:45
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-46
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.022	J B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 09:50	1
Motor Oil (>C24-C36)	0.026	J B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 09:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*115*		*50 - 150*	*09/29/14 09:53*	*10/02/14 09:50*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-17-091614
Date Collected: 09/16/14 10:52
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-47
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.014	J B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 10:28	1
Motor Oil (>C24-C36)	0.016	J B	0.048	0.0093	mg/L		09/29/14 09:53	10/02/14 10:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*50 - 150*	*09/29/14 09:53*	*10/02/14 10:28*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-18-091614
Date Collected: 09/16/14 11:45
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-48
Matrix: Water

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	B Y	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 10:46	1
Motor Oil (>C24-C36)	0.069	B Y	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*50 - 150*	*09/29/14 09:53*	*10/02/14 10:46*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-19-091614
Date Collected: 09/16/14 11:55
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-49
Matrix: Water

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		0.024	0.014	mg/L		09/29/14 09:53	10/02/14 11:05	1
Motor Oil (>C24-C36)	**0.017**	**J B**	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*102*		*50 - 150*	*09/29/14 09:53*	*10/02/14 11:05*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-43-091614
Date Collected: 09/16/14 13:10
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-50
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.019	J B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 11:25	1
Motor Oil (>C24-C36)	0.024	J B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*50 - 150*	*09/29/14 09:53*	*10/02/14 11:25*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-50-091614
Date Collected: 09/16/14 17:40
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-51
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	1.2	B Y	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 11:44	1
Motor Oil (>C24-C36)	0.52	B Y	0.048	0.0093	mg/L		09/29/14 09:53	10/02/14 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*50 - 150*	*09/29/14 09:53*	*10/02/14 11:44*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-54-091614
Date Collected: 09/16/14 17:55
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-52
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.037	B Y	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 12:03	1
Motor Oil (>C24-C36)	0.042	J B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*111*		*50 - 150*	*09/29/14 09:53*	*10/02/14 12:03*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-55-091614
Date Collected: 09/16/14 16:20
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-53
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.094	B Y	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 14:03	1
Motor Oil (>C24-C36)	0.085	B Y	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*108*		*50 - 150*	*09/29/14 09:53*	*10/02/14 14:03*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-56-091614
Date Collected: 09/16/14 16:07
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-54
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.91	B Y	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 14:22	1
Motor Oil (>C24-C36)	1.3	B Y	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*114*		*50 - 150*	*09/29/14 09:53*	*10/02/14 14:22*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 1A-W-4-091714
Date Collected: 09/17/14 12:32
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-55
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.020	J B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 14:41	1
Motor Oil (>C24-C36)	0.024	J B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*09/29/14 09:53*	*10/02/14 14:41*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 1B-W-2-091714
Date Collected: 09/17/14 11:20
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-56
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.066	B Y	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 15:00	1
Motor Oil (>C24-C36)	0.074	B Y	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*50 - 150*	*09/29/14 09:53*	*10/02/14 15:00*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 1B-W-3-091714
Date Collected: 09/17/14 10:49
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-57
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.023	J B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 15:38	1
Motor Oil (>C24-C36)	0.033	J B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*09/29/14 09:53*	*10/02/14 15:38*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 1C-W-3-091814
Date Collected: 09/18/14 12:52
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-58
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.022	J B	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 15:58	1
Motor Oil (>C24-C36)	0.022	J B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*50 - 150*	*09/29/14 09:53*	*10/02/14 15:58*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 1C-W-4-091814
Date Collected: 09/18/14 13:00
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-59
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.044	B Y	0.024	0.014	mg/L		09/29/14 09:53	10/02/14 16:17	1
Motor Oil (>C24-C36)	0.035	J B	0.047	0.0093	mg/L		09/29/14 09:53	10/02/14 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*50 - 150*	*09/29/14 09:53*	*10/02/14 16:17*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: MW-16-091814
Date Collected: 09/18/14 11:28
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-60
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.015	J	0.024	0.014	mg/L		09/29/14 14:26	10/02/14 09:24	1
Motor Oil (>C24-C36)	ND		0.048	0.0094	mg/L		09/29/14 14:26	10/02/14 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*09/29/14 14:26*	*10/02/14 09:24*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: MW-38R-091614
Date Collected: 09/16/14 13:46
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-61
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.051	Y	0.024	0.014	mg/L		09/29/14 14:26	10/02/14 09:43	1
Motor Oil (>C24-C36)	0.034	J	0.047	0.0093	mg/L		09/29/14 14:26	10/02/14 09:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*09/29/14 14:26*	*10/02/14 09:43*	*1*

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

Lab Sample ID: MB 580-170522/1-A
Matrix: Water
Analysis Batch: 171084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		09/23/14 10:47	09/29/14 13:42	1
Motor Oil (>C24-C36)	0.0110	J	0.050	0.0098	mg/L		09/23/14 10:47	09/29/14 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*50 - 150*	*09/23/14 10:47*	*09/29/14 13:42*	*1*

Lab Sample ID: LCS 580-170522/2-A
Matrix: Water
Analysis Batch: 171084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.392		mg/L		78	59 - 120
Motor Oil (>C24-C36)	0.500	0.486		mg/L		97	71 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*98*		*50 - 150*

Lab Sample ID: LCSD 580-170522/3-A
Matrix: Water
Analysis Batch: 171084

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170522

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.331		mg/L		66	59 - 120	17	27
Motor Oil (>C24-C36)	0.500	0.418		mg/L		84	71 - 140	15	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*84*		*50 - 150*

Lab Sample ID: MB 580-170586/1-A
Matrix: Water
Analysis Batch: 171351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		09/23/14 17:19	10/02/14 19:49	1
Motor Oil (>C24-C36)	0.0132	J	0.050	0.0098	mg/L		09/23/14 17:19	10/02/14 19:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*09/23/14 17:19*	*10/02/14 19:49*	*1*

Lab Sample ID: LCS 580-170586/2-A
Matrix: Water
Analysis Batch: 171351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.418		mg/L		84	59 - 120
Motor Oil (>C24-C36)	0.500	0.531		mg/L		106	71 - 140

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

Lab Sample ID: LCS 580-170586/2-A
Matrix: Water
Analysis Batch: 171351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170586

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	91		50 - 150

Lab Sample ID: LCSD 580-170586/3-A
Matrix: Water
Analysis Batch: 171351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170586

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.394		mg/L		79	59 - 120	6	27
Motor Oil (>C24-C36)			0.500	0.505		mg/L		101	71 - 140	5	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	83		50 - 150

Lab Sample ID: MB 580-171105/1-A
Matrix: Water
Analysis Batch: 171341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 171105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.0162	J	0.025	0.015	mg/L		09/29/14 09:53	10/02/14 07:02	1
Motor Oil (>C24-C36)	0.0174	J	0.050	0.0098	mg/L		09/29/14 09:53	10/02/14 07:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	113		50 - 150	09/29/14 09:53	10/02/14 07:02	1

Lab Sample ID: LCS 580-171105/2-A
Matrix: Water
Analysis Batch: 171341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 171105

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			0.500	0.449		mg/L		90	59 - 120
Motor Oil (>C24-C36)			0.500	0.491		mg/L		98	71 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	114		50 - 150

Lab Sample ID: LCSD 580-171105/3-A
Matrix: Water
Analysis Batch: 171341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 171105

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.428		mg/L		86	59 - 120	5	27
Motor Oil (>C24-C36)			0.500	0.453		mg/L		91	71 - 140	8	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	101		50 - 150

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

Lab Sample ID: MB 580-171156/1-A
Matrix: Water
Analysis Batch: 171461

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 171156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		09/29/14 14:26	10/02/14 08:30	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		09/29/14 14:26	10/02/14 08:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*09/29/14 14:26*	*10/02/14 08:30*	*1*

Lab Sample ID: LCS 580-171156/2-A
Matrix: Water
Analysis Batch: 171461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 171156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.413		mg/L		83	59 - 120
Motor Oil (>C24-C36)	0.500	0.484		mg/L		97	71 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*90*		*50 - 150*

Lab Sample ID: LCSD 580-171156/3-A
Matrix: Water
Analysis Batch: 171461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 171156

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.435		mg/L		87	59 - 120	5	27
Motor Oil (>C24-C36)	0.500	0.503		mg/L		101	71 - 140	4	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*86*		*50 - 150*

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: GW-1-091614 — Lab Sample ID: 580-45475-1

Date Collected: 09/16/14 17:58 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/29/14 22:27	JJP	TAL SEA

Client Sample ID: GW-2-091614 — Lab Sample ID: 580-45475-2

Date Collected: 09/16/14 16:09 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/29/14 22:46	JJP	TAL SEA

Client Sample ID: GW-20-091614 — Lab Sample ID: 580-45475-3

Date Collected: 09/16/14 16:12 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/29/14 23:05	JJP	TAL SEA

Client Sample ID: GW-3-091714 — Lab Sample ID: 580-45475-4

Date Collected: 09/17/14 09:20 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/29/14 23:24	JJP	TAL SEA

Client Sample ID: GW-30-091714 — Lab Sample ID: 580-45475-5

Date Collected: 09/17/14 13:00 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/29/14 23:43	JJP	TAL SEA

Client Sample ID: GW-4-091814 — Lab Sample ID: 580-45475-6

Date Collected: 09/18/14 10:05 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 00:02	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: S1-AD-091714

Lab Sample ID: 580-45475-7

Date Collected: 09/17/14 16:12
Matrix: Water
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 00:21	JJP	TAL SEA

Client Sample ID: S1-AU-091714

Lab Sample ID: 580-45475-8

Date Collected: 09/17/14 16:35
Matrix: Water
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 00:40	JJP	TAL SEA

Client Sample ID: S1-BD-091714

Lab Sample ID: 580-45475-9

Date Collected: 09/17/14 16:10
Matrix: Water
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 00:59	JJP	TAL SEA

Client Sample ID: S1-BU-091714

Lab Sample ID: 580-45475-10

Date Collected: 09/17/14 16:35
Matrix: Water
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 01:18	JJP	TAL SEA

Client Sample ID: S2-AD-091714

Lab Sample ID: 580-45475-11

Date Collected: 09/17/14 17:05
Matrix: Water
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 01:55	JJP	TAL SEA

Client Sample ID: S2-AU-091714

Lab Sample ID: 580-45475-12

Date Collected: 09/17/14 17:03
Matrix: Water
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 02:14	JJP	TAL SEA

Client Sample ID: S2-BD-091714

Lab Sample ID: 580-45475-13

Date Collected: 09/17/14 16:10

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 02:33	JJP	TAL SEA

Client Sample ID: S2-BDO-091714

Lab Sample ID: 580-45475-14

Date Collected: 09/17/14 16:20

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 02:52	JJP	TAL SEA

Client Sample ID: S2-BU-091714

Lab Sample ID: 580-45475-15

Date Collected: 09/17/14 16:38

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 03:10	JJP	TAL SEA

Client Sample ID: IC-W-1-091814

Lab Sample ID: 580-45475-16

Date Collected: 09/18/14 11:28

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 03:29	JJP	TAL SEA

Client Sample ID: IC-W-7-091814

Lab Sample ID: 580-45475-17

Date Collected: 09/18/14 10:10

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 03:48	JJP	TAL SEA

Client Sample ID: IC-W-8-091814

Lab Sample ID: 580-45475-18

Date Collected: 09/18/14 11:25

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 04:07	JJP	TAL SEA

Client Sample ID: IC-W-80-091814

Lab Sample ID: 580-45475-19

Date Collected: 09/18/14 12:00

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170522	09/23/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171084	09/30/14 04:25	JJP	TAL SEA

Client Sample ID: IB-W-23-091714

Lab Sample ID: 580-45475-20

Date Collected: 09/17/14 09:13

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/02/14 21:25	EKK	TAL SEA

Client Sample ID: 2A-W-40-091714

Lab Sample ID: 580-45475-21

Date Collected: 09/17/14 09:33

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/02/14 21:49	EKK	TAL SEA

Client Sample ID: 2A-W-41-091714

Lab Sample ID: 580-45475-22

Date Collected: 09/17/14 11:09

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/02/14 22:13	EKK	TAL SEA

Client Sample ID: 2A-W-42-091714

Lab Sample ID: 580-45475-23

Date Collected: 09/17/14 11:57

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/02/14 22:37	EKK	TAL SEA

Client Sample ID: 2A-W-10-091714

Lab Sample ID: 580-45475-24

Date Collected: 09/17/14 14:44

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/02/14 23:01	EKK	TAL SEA

Client Sample ID: 2A-W-100-091814 — **Lab Sample ID: 580-45475-25**
Date Collected: 09/18/14 14:54 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/02/14 23:25	EKK	TAL SEA

Client Sample ID: 2B-W-4-091814 — **Lab Sample ID: 580-45475-26**
Date Collected: 09/18/14 13:33 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/02/14 23:48	EKK	TAL SEA

Client Sample ID: MW-3-091814 — **Lab Sample ID: 580-45475-27**
Date Collected: 09/18/14 12:33 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 00:12	EKK	TAL SEA

Client Sample ID: MW-4-091814 — **Lab Sample ID: 580-45475-28**
Date Collected: 09/18/14 14:25 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 00:36	EKK	TAL SEA

Client Sample ID: EW-1-091614 — **Lab Sample ID: 580-45475-29**
Date Collected: 09/16/14 13:08 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 01:24	EKK	TAL SEA

Client Sample ID: EW-2A-091814 — **Lab Sample ID: 580-45475-30**
Date Collected: 09/18/14 10:00 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 01:47	EKK	TAL SEA

Client Sample ID: S3-AD-091714 — **Lab Sample ID: 580-45475-31**
Date Collected: 09/17/14 15:09 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 02:11	EKK	TAL SEA

Client Sample ID: S3-AU-091714 — **Lab Sample ID: 580-45475-32**
Date Collected: 09/17/14 15:33 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 02:35	EKK	TAL SEA

Client Sample ID: S3-BD-091714 — **Lab Sample ID: 580-45475-33**
Date Collected: 09/17/14 15:13 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 02:59	EKK	TAL SEA

Client Sample ID: S3-BU-091714 — **Lab Sample ID: 580-45475-34**
Date Collected: 09/17/14 15:33 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 03:22	EKK	TAL SEA

Client Sample ID: S3-CD-091714 — **Lab Sample ID: 580-45475-35**
Date Collected: 09/17/14 15:10 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 03:46	EKK	TAL SEA

Client Sample ID: S3-CU-091714 — **Lab Sample ID: 580-45475-36**
Date Collected: 09/17/14 15:30 — **Matrix: Water**
Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 04:10	EKK	TAL SEA

Client Sample ID: S4-AD-091714

Lab Sample ID: 580-45475-37

Date Collected: 09/17/14 14:08

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 04:33	EKK	TAL SEA

Client Sample ID: S4-AU-091714

Lab Sample ID: 580-45475-38

Date Collected: 09/17/14 14:25

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 04:57	EKK	TAL SEA

Client Sample ID: S4-BD-091714

Lab Sample ID: 580-45475-39

Date Collected: 09/17/14 14:15

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			170586	09/23/14 17:19	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171351	10/03/14 05:44	EKK	TAL SEA

Client Sample ID: S4-BU-091714

Lab Sample ID: 580-45475-40

Date Collected: 09/17/14 14:40

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 07:58	JJP	TAL SEA

Client Sample ID: S4-CD-091714

Lab Sample ID: 580-45475-41

Date Collected: 09/17/14 14:03

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 08:17	JJP	TAL SEA

Client Sample ID: S4-CU-091714

Lab Sample ID: 580-45475-42

Date Collected: 09/17/14 14:25

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 08:35	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-14-091614

Lab Sample ID: 580-45475-43

Date Collected: 09/16/14 12:08

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 08:54	JJP	TAL SEA

Client Sample ID: 5-W-15-091614

Lab Sample ID: 580-45475-44

Date Collected: 09/16/14 10:33

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 09:13	JJP	TAL SEA

Client Sample ID: 5-W-150-091614

Lab Sample ID: 580-45475-45

Date Collected: 09/16/14 10:35

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 09:31	JJP	TAL SEA

Client Sample ID: 5-W-16-091614

Lab Sample ID: 580-45475-46

Date Collected: 09/16/14 10:45

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 09:50	JJP	TAL SEA

Client Sample ID: 5-W-17-091614

Lab Sample ID: 580-45475-47

Date Collected: 09/16/14 10:52

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 10:28	JJP	TAL SEA

Client Sample ID: 5-W-18-091614

Lab Sample ID: 580-45475-48

Date Collected: 09/16/14 11:45

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 10:46	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: 5-W-19-091614

Lab Sample ID: 580-45475-49

Date Collected: 09/16/14 11:55

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 11:05	JJP	TAL SEA

Client Sample ID: 5-W-43-091614

Lab Sample ID: 580-45475-50

Date Collected: 09/16/14 13:10

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 11:25	JJP	TAL SEA

Client Sample ID: 5-W-50-091614

Lab Sample ID: 580-45475-51

Date Collected: 09/16/14 17:40

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 11:44	JJP	TAL SEA

Client Sample ID: 5-W-54-091614

Lab Sample ID: 580-45475-52

Date Collected: 09/16/14 17:55

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 12:03	JJP	TAL SEA

Client Sample ID: 5-W-55-091614

Lab Sample ID: 580-45475-53

Date Collected: 09/16/14 16:20

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 14:03	JJP	TAL SEA

Client Sample ID: 5-W-56-091614

Lab Sample ID: 580-45475-54

Date Collected: 09/16/14 16:07

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 14:22	JJP	TAL SEA

Client Sample ID: 1A-W-4-091714

Lab Sample ID: 580-45475-55

Date Collected: 09/17/14 12:32

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 14:41	JJP	TAL SEA

Client Sample ID: 1B-W-2-091714

Lab Sample ID: 580-45475-56

Date Collected: 09/17/14 11:20

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 15:00	JJP	TAL SEA

Client Sample ID: 1B-W-3-091714

Lab Sample ID: 580-45475-57

Date Collected: 09/17/14 10:49

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 15:38	JJP	TAL SEA

Client Sample ID: 1C-W-3-091814

Lab Sample ID: 580-45475-58

Date Collected: 09/18/14 12:52

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 15:58	JJP	TAL SEA

Client Sample ID: 1C-W-4-091814

Lab Sample ID: 580-45475-59

Date Collected: 09/18/14 13:00

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171105	09/29/14 09:53	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171341	10/02/14 16:17	JJP	TAL SEA

Client Sample ID: MW-16-091814

Lab Sample ID: 580-45475-60

Date Collected: 09/18/14 11:28

Matrix: Water

Date Received: 09/19/14 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171156	09/29/14 14:26	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171461	10/02/14 09:24	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Client Sample ID: MW-38R-091614
Date Collected: 09/16/14 13:46
Date Received: 09/19/14 16:50

Lab Sample ID: 580-45475-61
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171156	09/29/14 14:26	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	171461	10/02/14 09:43	JJP	TAL SEA

Laboratory References:

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

Certification Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-113	07-25-15
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-45475-1	GW-1-091614	Water	09/16/14 17:58	09/19/14 16:50
580-45475-2	GW-2-091614	Water	09/16/14 16:09	09/19/14 16:50
580-45475-3	GW-20-091614	Water	09/16/14 16:12	09/19/14 16:50
580-45475-4	GW-3-091714	Water	09/17/14 09:20	09/19/14 16:50
580-45475-5	GW-30-091714	Water	09/17/14 13:00	09/19/14 16:50
580-45475-6	GW-4-091814	Water	09/18/14 10:05	09/19/14 16:50
580-45475-7	S1-AD-091714	Water	09/17/14 16:12	09/19/14 16:50
580-45475-8	S1-AU-091714	Water	09/17/14 16:35	09/19/14 16:50
580-45475-9	S1-BD-091714	Water	09/17/14 16:10	09/19/14 16:50
580-45475-10	S1-BU-091714	Water	09/17/14 16:35	09/19/14 16:50
580-45475-11	S2-AD-091714	Water	09/17/14 17:05	09/19/14 16:50
580-45475-12	S2-AU-091714	Water	09/17/14 17:03	09/19/14 16:50
580-45475-13	S2-BD-091714	Water	09/17/14 16:10	09/19/14 16:50
580-45475-14	S2-BDO-091714	Water	09/17/14 16:20	09/19/14 16:50
580-45475-15	S2-BU-091714	Water	09/17/14 16:38	09/19/14 16:50
580-45475-16	IC-W-1-091814	Water	09/18/14 11:28	09/19/14 16:50
580-45475-17	IC-W-7-091814	Water	09/18/14 10:10	09/19/14 16:50
580-45475-18	IC-W-8-091814	Water	09/18/14 11:25	09/19/14 16:50
580-45475-19	IC-W-80-091814	Water	09/18/14 12:00	09/19/14 16:50
580-45475-20	IB-W-23-091714	Water	09/17/14 09:13	09/19/14 16:50
580-45475-21	2A-W-40-091714	Water	09/17/14 09:33	09/19/14 16:50
580-45475-22	2A-W-41-091714	Water	09/17/14 11:09	09/19/14 16:50
580-45475-23	2A-W-42-091714	Water	09/17/14 11:57	09/19/14 16:50
580-45475-24	2A-W-10-091714	Water	09/17/14 14:44	09/19/14 16:50
580-45475-25	2A-W-100-091814	Water	09/18/14 14:54	09/19/14 16:50
580-45475-26	2B-W-4-091814	Water	09/18/14 13:33	09/19/14 16:50
580-45475-27	MW-3-091814	Water	09/18/14 12:33	09/19/14 16:50
580-45475-28	MW-4-091814	Water	09/18/14 14:25	09/19/14 16:50
580-45475-29	EW-1-091614	Water	09/16/14 13:08	09/19/14 16:50
580-45475-30	EW-2A-091814	Water	09/18/14 10:00	09/19/14 16:50
580-45475-31	S3-AD-091714	Water	09/17/14 15:09	09/19/14 16:50
580-45475-32	S3-AU-091714	Water	09/17/14 15:33	09/19/14 16:50
580-45475-33	S3-BD-091714	Water	09/17/14 15:13	09/19/14 16:50
580-45475-34	S3-BU-091714	Water	09/17/14 15:33	09/19/14 16:50
580-45475-35	S3-CD-091714	Water	09/17/14 15:10	09/19/14 16:50
580-45475-36	S3-CU-091714	Water	09/17/14 15:30	09/19/14 16:50
580-45475-37	S4-AD-091714	Water	09/17/14 14:08	09/19/14 16:50
580-45475-38	S4-AU-091714	Water	09/17/14 14:25	09/19/14 16:50
580-45475-39	S4-BD-091714	Water	09/17/14 14:15	09/19/14 16:50
580-45475-40	S4-BU-091714	Water	09/17/14 14:40	09/19/14 16:50
580-45475-41	S4-CD-091714	Water	09/17/14 14:03	09/19/14 16:50
580-45475-42	S4-CU-091714	Water	09/17/14 14:25	09/19/14 16:50
580-45475-43	5-W-14-091614	Water	09/16/14 12:08	09/19/14 16:50
580-45475-44	5-W-15-091614	Water	09/16/14 10:33	09/19/14 16:50
580-45475-45	5-W-150-091614	Water	09/16/14 10:35	09/19/14 16:50
580-45475-46	5-W-16-091614	Water	09/16/14 10:45	09/19/14 16:50
580-45475-47	5-W-17-091614	Water	09/16/14 10:52	09/19/14 16:50
580-45475-48	5-W-18-091614	Water	09/16/14 11:45	09/19/14 16:50
580-45475-49	5-W-19-091614	Water	09/16/14 11:55	09/19/14 16:50
580-45475-50	5-W-43-091614	Water	09/16/14 13:10	09/19/14 16:50
580-45475-51	5-W-50-091614	Water	09/16/14 17:40	09/19/14 16:50
580-45475-52	5-W-54-091614	Water	09/16/14 17:55	09/19/14 16:50
580-45475-53	5-W-55-091614	Water	09/16/14 16:20	09/19/14 16:50

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Cleanup Activities

TestAmerica Job ID: 580-45475-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-45475-54	5-W-56-091614	Water	09/16/14 16:07	09/19/14 16:50
580-45475-55	1A-W-4-091714	Water	09/17/14 12:32	09/19/14 16:50
580-45475-56	1B-W-2-091714	Water	09/17/14 11:20	09/19/14 16:50
580-45475-57	1B-W-3-091714	Water	09/17/14 10:49	09/19/14 16:50
580-45475-58	1C-W-3-091814	Water	09/18/14 12:52	09/19/14 16:50
580-45475-59	1C-W-4-091814	Water	09/18/14 13:00	09/19/14 16:50
580-45475-60	MW-16-091814	Water	09/18/14 11:28	09/19/14 16:50
580-45475-61	MW-38R-091614	Water	09/16/14 13:46	09/19/14 16:50

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA SEATTLE
Project Manager: CHRIS ALLEN
Address: 5755 8TH ST E
Phone: 253 922 2310
City/State/ZIP: TACOMA, WA 98424
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: SKYKOMISH
BNSF Project Name: BNSF SKYKOMISH CLEANUP ACTIVITIES
BNSF Contact:
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON
Project Number: 683-043
Project Manager: JERRY PORTELE
Address: 975 5TH AVE NW
Email: JPORTELE@FARALLONCONSULTING.COM
City/State/ZIP: ISSAQUAH, WA 98027
Phone: 425 295-0800
Fax: 425 295 0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 6-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	METHODS FOR ANALYSIS: NWTPH-Dx	COMMENTS	LAB USE
1	GW-1-091614	2	9/16/14	1758	RO	N	G	W	X		-1
2	GW-2-091614	2	9/16/14	1609	RO				X		-2
3	GW-20-091614	2	9/16/14	1612	RO				X		-3
4	GW-3-091714	2	9/17/14	0920	JK				X		-4
5	GW-30-091714	2	9/17/14	1300	JK				X		-5
6	GW-4-091814	2	9/18/14	1005	JK				X		-6
7	S1-AD-091714	2	9/17/14	1612	DK				X		-7
8	S1-AU-091714	2	9/17/14	1635	DK				X		-8
9	S1-BD-091714	2	9/17/14	1610	DK				X		-9
10	S1-BU-091714	2	9/17/14	1635	DK				X		-10
11	S2-AD-091714	2	9/17/14	1705	JK				X		-11
12	S2-AU-091714	2	9/17/14	1703	DK				X		-12
13	S2-BD-091714	2	9/17/14	1610	RO				X		-13
14	S2-BDO-091714	2	9/17/14	1620	RO				X		-14
15	S2-BU-091714	2	9/17/14	1638	JK				X		-15

580-45475 Chain of Custody

Relinquished By:	Date/Time: 9/19/14 1315	Received By:	Date/Time: 9/19/14 1650	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? ☐ Yes ☐ No	Custody Seal No.. / BNSF COC No.

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (06/08)

10/6/2014

BNSF RAILWAY — CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA SEATTLE
Project Manager: CHRIS ALLEN
Address: 5755 8TH AVE ST E
Phone: 253 922 2310
City/State/ZIP: TACOMA WA 98424
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

Project State of Origin: WA
BNSF Project Number:
Project City: SKYKOMISH
BNSF Project Name: BNSF SKYKOMISH CLEANUP ACTIVITIES
BNSF Contact:
BNSF Work Order No.:

CONSULTANT INFORMATION

Project Number: 683-043
Company: FARALLON
Project Manager: JERRY PORTELE
Address: 975 5TH AVE NW
Email: JPORTELE@FARALLONCONSULTING.COM
City/State/ZIP: ISSAQUAH, WA 98027
Phone: 425 295-0800
Fax: 425 295 0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Other Deliverables?
- [ ] Level III
- [ ] EDD Req, Format?
- [ ] Level IV

METHODS FOR ANALYSIS

NWTPH-Dx

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx	COMMENTS	LAB USE
1	IC-W-1-091814	2	9/18/14	1128	RO	N	G	W	X		-16
2	IC-W-7-091814	2	9/18/14	1010	RO				X		-17
3	IC-W-8-091814	2	9/18/14	1125	JK				X		-18
4	IC-W-80-091814	2	9/18/14	1200	JK				X		-19
5	1B-W-23-091714	2	9/17/14	0913	DK				X		-20
6	2A-W-40-091714	2	9/17/14	0933	RO				X		-21
7	2A-W-41-091714	2	9/17/14	1109	RO				X		-22
8	2A-W-42-091714	2	9/17/14	1157	DK				X		-23
9	2A-W-10-091714	2	9/17/14	1444	RO				X		-24
10	2A-W-100-091814	1	9/18/14	1454	RO				X		-25
11	2B-W-4-091814	2	9/18/14	1333	DK				X		-26
12	MW-3-091814	2	9/18/14	1233	DK				X		-27
13	MW-4-091814	2	9/18/14	1425	JK				X		-28
14	EW-1-091614	2	9/16/14	1308	DK				X		-29
15	EW-2A-091814	2	9/18/14	1000	DK	↓	↓	↓	X		-30

	Date/Time	Received By	Date/Time
Relinquished By:	9/19/14 1315		9/19/14 1650
Relinquished By:			
Relinquished By:			

Comments and Special Analytical Requirements:

Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No	Custody Seal No..	BNSF COC No .

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — DUPLICATE - CONSULTANT — TAL-1001 (06/08)

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA SEATTLE
Project Manager: CHRIS ALLEN
Address: 5755 8TH ST E
Phone: 4253922 2310
City/State/ZIP: TACOMA WA 98424
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: SKYKOMISH
BNSF Project Name: BNSF SKYKOMISH CLEANUP ACTIVITIES
BNSF Work Order No.:
BNSF Contact:

CONSULTANT INFORMATION

Company: FARALLON
Address: 975 5TH AVE NW
City/State/ZIP: ISSAQUAH, WA 98027
Project Number: 1083-043
Project Manager: JERRY PORTELE
Email: JPORTELE@FARALLONCONSULTING.COM
Phone: 425 295-0800
Fax: 425 295 0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	METHODS FOR ANALYSIS: NWTPH-Dx								COMMENTS	LAB USE
1	S3-AD-091714	2	9/17/14	1509	DK	N	G	W	X									-31
2	S3-AU-091714	2	9/17/14	1533	DK				X									-32
3	S3-BD-091714	2	9/17/14	1513	~~DK~~ RO				X									-33
4	S3-BU-091714	2	9/17/14	1533	~~JK~~ RO				X									-34
5	S3-CD-091714	2	9/17/14	1510	JK				X									-35
6	S3-CU-091714	2	9/17/14	1530	JK				X									-36
7	S4-AD-091714	2	9/17/14	1408	RO				X									-37
8	S4-AU-091714	2	9/17/14	1425	RO				X									-38
9	S4-BD-091714	2	9/17/14	1415	JK				X									-39
10	S4-BU-091714	2	9/17/14	1440	JK				X									-40
11	S4-CD-091714	2	9/17/14	1403	DK				X									-41
12	S4-CU-091714	2	9/17/14	1425	DK				X									-42
13	S-W-14-091614	2	9/16/14	1208	RO				X									-43
14	S-W-15-091614	2	9/16/14	1033	DK				X									-44
15	S-N-~~150~~-091614	2	9/16/14	1035	DK	↓	↓	↓	X									-45

Relinquished By:	Date/Time: 9/19/14 1315	Received By:	Date/Time: 9/19/14 1650	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? ☐ Yes ☐ No	Custody Seal No.: / BNSF COC No.:

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (06/08)

10/6/2014

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: | Project Manager:

Address: | Phone:

City/State/ZIP: | Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:

Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:

Project State of Origin: WA

Project City: SKYKOMISH

BNSF Project Name: BNSF SKYKOMISH CLEANUP ACTIVITIES

BNSF Contact: | BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON

Address: 975 5TH AVE NW

City/State/ZIP: ISSAQUAH, WA 98027

Project Number: 683-043

Project Manager: JERRY PORTELE

Email: JPORTELE@FARALLONCONSULTING.COM

Phone: 425 295-0800 Fax: 425 295 0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

METHODS FOR ANALYSIS

NWTPH-Dx

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	NWTPH-Dx	COMMENTS	LAB USE
1	S-W-16-091614	2	9/16/14	1045	JK	N	G	W	X		-46
2	S-W-17-091614	2	9/16/14	1052	RO				X		-47
3	S-W-18-091614	2	9/16/14	1145	DK				X		-48
4	S-W-19-091614	2	9/16/14	1155	JK				X		-49
5	S-W-43-091614	2	9/16/14	1310	JK				X		-50
6	S-W-50-091614	2	9/16/14	1740	DK				X		-51
7	S-W-54-091614	2	9/16/14	1755	JK				X		-52
8	S-W-55-091614	2	9/16/14	1620	JK				X		-53
9	S-W-56-091614	2	9/16/14	1607	DK				X		-54
10	1A-W-4-091714	2	9/17/14	1232	RO				X		-55
11	1B-W-2-091714	2	9/17/14	1120	JK				X		-56
12	1B-W-3-091714	2	9/17/14	1049	DK				X		-57
13	1C-W-3-091814	2	9/18/14	1252	RO				X		-58
14	1C-W-4-091814	2	9/18/14	1300	JK				X		-59
15	MW-16-091814	2	9/18/14	1128	DK				X		-60

	Date/Time:	Received By:	Date/Time:
Relinquished By:	9/19/14 1315		9/19/14 1650
Relinquished By:			
Relinquished By:			

Comments and Special Analytical Requirements:

Received by Laboratory: | Date/Time: | Lab Remarks: | Lab: Custody Intact? ☐ Yes ☐ No | Custody Seal No.. | BNSF COC No.

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (06/08)

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA SEATTLE
Project Manager: CHRIS ALLEN
Address: 5755 8TH STE
Phone: 253 922 2310
City/State/ZIP: TACOMA WA 98424
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: SKYKOMISH
BNSF Project Name: BNSF SKYKOMISH CLEANUP ACTIVITIES
BNSF Contact:
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON
Project Number: 683-043
Project Manager: JERRY PORTELE
Address: 975 5TH AVE NW
Email: JPORTELE@FARALLONCONSULTING.COM
City/State/ZIP: ISSAQUAH WA 98027
Phone: 425 295-0800
Fax: 425 295 0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

METHODS FOR ANALYSIS

NWTPH-Dx

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx	COMMENTS	LAB USE
1	MW-38R-091614	2	9/16/14	1346	RO	N	G	W	X		-01
2											
3											
4											
5											
6											
7											
8											
9		DK									
10											
11											
12											
13											
14											
15											

Relinquished By:	Date/Time: 9/19/14 1315	Received By:	Date/Time: 9/19/14 1650	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? ☐ Yes ☐ No	Custody Seal No.. / BNSF COC No .

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (06/08)

Cooler/TB Dig/IR cor 1.4 °C unc 1.7 °C
Cooler Dsc Lg red/white @Lab 1650
Wet/Packs Packing Bubble
w/o A1

Cooler/TB Dig/IR cor 3.7 unc 4.0
Cooler Dsc Lg Blu/Wht @Lab 16:50
Wet/Packs Packing Bubble
w/o C.S.
A1

Cooler/TB Dig/IR cor 0.9 °C unc 1.2 °C
Cooler Dsc Lg Blu/White @Lab 1650
Wet/Packs Packing Bubble
A1

Cooler/TB Dig/IR cor 1.2 unc 1.5
Cooler Dsc Lg Blu Wht @Lab 16:50
Wet/Packs Packing Bubble
w/o C.S
A1

Cooler/TB Dig/IR cor 2.5 ~~2.5~~ unc 2.8
Cooler Dsc Wht/Blu Lg @Lab 16:50
Wet/Packs Packing Bubble
A1 w/o C.S.

Cooler/TB Dig/IR cor 2.1 unc 2.4
Cooler Dsc Lg Blu Wht @Lab 16:50
Wet/Packs Packing Bubble
w/o C.S.
A.1

Cooler/TB Dig/IR cor 0.9 unc 1.2
Cooler Dsc Lg Blu Wht @Lab 16:50
Wet/Packs Packing ~~W/A~~ Bubble
W/O C.S. A1

Cooler/TB Dig/IR cor .7 unc 1.0
Cooler Dsc Lg Blu Wht @Lab 16:50
Wet/Packs Packing Bubble
w/o C.S
A1

Cooler/TB Dig/IR cor 2.5 unc 2.8
Cooler Dsc Lg Blu Wht @Lab 16:50
Wet/Packs Packing Bubble
A.1. w/o C.S.

Cooler/TB Dig/IR cor 2.9 unc 3.2
Cooler Dsc Lg Blu Wht @Lab 16:50
Wet/Packs Packing Bubble
w/o C.S
A1

Cooler/TB Dig/IR cor 0.4 unc 0.7
Cooler Dsc Lg Blu Grn @Lab 16:50
Wet/Packs Packing Bubble
w/o C.S
A.1.

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-45475-1

Login Number: 45475

List Source: TestAmerica Seattle

List Number: 1

Creator: Abello, Andrea N

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	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").	True	
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: 580-46788-1
Client Project/Site: BNSF Skykomish Groundwater Quarterly

For:
Farallon Consulting LLC
975 5th Avenue NW
Suite 100
Issaquah, Washington 98027

Attn: Gerald Portele

Kristine D. Allen

Authorized for release by:
1/5/2015 1:06:24 PM

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

Table of Contents

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Certification Summary 46
Sample Summary 47
Chain of Custody 48
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Job ID: 580-46788-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 12/18/2014 1:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were -0.3º C, 0.2º C, 0.4º C, 0.5º C, 0.7º C, 1.6º C, 2.1º C, 2.5º C and 4.4º C.

GC Semi VOA

Method(s) NWTPH-Dx: In analysis batch 179054, for the following sample(s) from preparation batch 178889: The following sample(s) 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-10-121614 (580-46788-6), 5-W-15-121614 (580-46788-12), 5-W-18-121614 (580-46788-2), EW-2A-121614 (580-46788-11), GW-4-121614 (580-46788-13), MW-3-121614 (580-46788-1), MW-4-121614 (580-46788-4).

Method(s) NWTPH-Dx: In analysis batch 179054, for the following sample from preparation batch 178889: The following sample 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-9-121614 (580-46788-9).

Method(s) NWTPH-Dx: In analysis batch 179025, for the following sample(s) from preparation batch 178992: The following sample(s) 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: 1B-W-3-121714 (580-46788-20), 2A-W-42-121714 (580-46788-23), 5-W-43-121614 (580-46788-14), EW-1-121614 (580-46788-15), GW-1-121614 (580-46788-16), GW-2-121614 (580-46788-17).

Method(s) NWTPH-Dx: In analysis batch 179124, for the following sample(s) from preparation batch 179154: The following sample(s) 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-7-121714 (580-46788-27), 2A-W-41-121714 (580-46788-25), CV1-121714 (580-46788-29), CV2-121714 (580-46788-30), CV3-121714 (580-46788-32), GW-3-121714 (580-46788-33), WV1-121714 (580-46788-26), WV2-121714 (580-46788-28).

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.

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: MW-3-121614
Date Collected: 12/16/14 09:31
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.045	Y	0.024	0.014	mg/L		12/23/14 15:50	12/29/14 16:22	1
Motor Oil (>C24-C36)	0.10	Y	0.047	0.0093	mg/L		12/23/14 15:50	12/29/14 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*12/23/14 15:50*	*12/29/14 16:22*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 5-W-18-121614
Date Collected: 12/16/14 09:51
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.095	Y	0.024	0.014	mg/L		12/23/14 15:50	12/29/14 16:38	1
Motor Oil (>C24-C36)	0.14	Y	0.047	0.0093	mg/L		12/23/14 15:50	12/29/14 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*12/23/14 15:50*	*12/29/14 16:38*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 5-W-19-121614
Date Collected: 12/16/14 10:05
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-3
Matrix: Water

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		0.024	0.014	mg/L		12/23/14 15:50	12/29/14 16:54	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/23/14 15:50	12/29/14 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*12/23/14 15:50*	*12/29/14 16:54*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: MW-4-121614
Date Collected: 12/16/14 10:22
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-4
Matrix: Water

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	Y	0.024	0.014	mg/L		12/23/14 15:50	12/29/14 17:10	1
Motor Oil (>C24-C36)	0.25	Y	0.048	0.0093	mg/L		12/23/14 15:50	12/29/14 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*12/23/14 15:50*	*12/29/14 17:10*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 5-W-16-121614
Date Collected: 12/16/14 11:12
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.021	J	0.024	0.014	mg/L		12/23/14 15:50	12/29/14 17:26	1
Motor Oil (>C24-C36)	0.021	J	0.047	0.0093	mg/L		12/23/14 15:50	12/29/14 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*50 - 150*	*12/23/14 15:50*	*12/29/14 17:26*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 2A-W-10-121614
Date Collected: 12/16/14 11:24
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-6
Matrix: Water

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	Y	0.024	0.014	mg/L		12/23/14 15:50	12/29/14 17:42	1
Motor Oil (>C24-C36)	0.48	Y	0.047	0.0093	mg/L		12/23/14 15:50	12/29/14 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*12/23/14 15:50*	*12/29/14 17:42*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 5-W-14-121614
Date Collected: 12/16/14 12:08
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-7
Matrix: Water

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		0.024	0.014	mg/L		12/23/14 15:50	12/29/14 17:58	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/23/14 15:50	12/29/14 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*50 - 150*	*12/23/14 15:50*	*12/29/14 17:58*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 5-W-17-121614
Date Collected: 12/16/14 12:20
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-8
Matrix: Water

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		0.024	0.014	mg/L		12/23/14 15:50	12/29/14 18:30	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/23/14 15:50	12/29/14 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*50 - 150*	*12/23/14 15:50*	*12/29/14 18:30*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 2A-W-9-121614
Date Collected: 12/16/14 12:53
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.94	Y	0.024	0.014	mg/L		12/23/14 15:50	12/29/14 18:46	1
Motor Oil (>C24-C36)	0.37	Y	0.047	0.0093	mg/L		12/23/14 15:50	12/29/14 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*12/23/14 15:50*	*12/29/14 18:46*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 5-W-170-121614
Date Collected: 12/16/14 13:10
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-10
Matrix: Water

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		0.024	0.014	mg/L		12/23/14 15:50	12/29/14 19:02	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/23/14 15:50	12/29/14 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*50 - 150*	*12/23/14 15:50*	*12/29/14 19:02*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: EW-2A-121614
Date Collected: 12/16/14 14:27
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.027	Y	0.024	0.014	mg/L		12/23/14 15:50	12/29/14 19:18	1
Motor Oil (>C24-C36)	0.044	J	0.047	0.0093	mg/L		12/23/14 15:50	12/29/14 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*12/23/14 15:50*	*12/29/14 19:18*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 5-W-15-121614
Date Collected: 12/16/14 14:30
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-12
Matrix: Water

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	Y	0.024	0.014	mg/L		12/23/14 15:50	12/29/14 19:34	1
Motor Oil (>C24-C36)	0.20	Y	0.048	0.0093	mg/L		12/23/14 15:50	12/29/14 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*12/23/14 15:50*	*12/29/14 19:34*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: GW-4-121614
Date Collected: 12/16/14 15:16
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.032	Y	0.024	0.014	mg/L		12/23/14 15:50	12/29/14 19:50	1
Motor Oil (>C24-C36)	0.044	J	0.047	0.0093	mg/L		12/23/14 15:50	12/29/14 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*12/23/14 15:50*	*12/29/14 19:50*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 5-W-43-121614
Date Collected: 12/16/14 15:25
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.030	Y	0.024	0.014	mg/L		12/24/14 14:38	12/29/14 14:49	1
Motor Oil (>C24-C36)	0.056	Y	0.048	0.0094	mg/L		12/24/14 14:38	12/29/14 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*12/24/14 14:38*	*12/29/14 14:49*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: EW-1-121614
Date Collected: 12/16/14 16:15
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.039	Y	0.024	0.014	mg/L		12/24/14 14:38	12/29/14 15:07	1
Motor Oil (>C24-C36)	0.066	Y	0.048	0.0093	mg/L		12/24/14 14:38	12/29/14 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*12/24/14 14:38*	*12/29/14 15:07*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: GW-1-121614
Date Collected: 12/16/14 16:18
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-16
Matrix: Water

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	Y	0.024	0.014	mg/L		12/24/14 14:38	12/29/14 15:25	1
Motor Oil (>C24-C36)	0.10	Y	0.048	0.0093	mg/L		12/24/14 14:38	12/29/14 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*12/24/14 14:38*	*12/29/14 15:25*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: GW-2-121614
Date Collected: 12/16/14 16:52
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.078	Y	0.024	0.014	mg/L		12/24/14 14:38	12/29/14 15:43	1
Motor Oil (>C24-C36)	0.048	Y	0.048	0.0093	mg/L		12/24/14 14:38	12/29/14 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*12/24/14 14:38*	*12/29/14 15:43*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 2B-W-4-121714
Date Collected: 12/17/14 09:17
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-18
Matrix: Water

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		0.024	0.014	mg/L		12/24/14 14:38	12/29/14 16:01	1
Motor Oil (>C24-C36)	**0.0093**	**J**	0.048	0.0093	mg/L		12/24/14 14:38	12/29/14 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*50 - 150*	*12/24/14 14:38*	*12/29/14 16:01*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 2B-W-40-121714
Date Collected: 12/17/14 09:20
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-19
Matrix: Water

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		0.024	0.014	mg/L		12/24/14 14:38	12/29/14 16:19	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/24/14 14:38	12/29/14 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*50 - 150*	*12/24/14 14:38*	*12/29/14 16:19*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 1B-W-3-121714
Date Collected: 12/17/14 09:30
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-20
Matrix: Water

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	Y	0.024	0.014	mg/L		12/24/14 14:38	12/29/14 16:37	1
Motor Oil (>C24-C36)	0.058	Y	0.047	0.0093	mg/L		12/24/14 14:38	12/29/14 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*12/24/14 14:38*	*12/29/14 16:37*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 2A-W-40-121714
Date Collected: 12/17/14 11:02
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-21
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.020	J	0.024	0.014	mg/L		12/24/14 14:38	12/29/14 16:55	1
Motor Oil (>C24-C36)	ND		0.048	0.0093	mg/L		12/24/14 14:38	12/29/14 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*12/24/14 14:38*	*12/29/14 16:55*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 2A-W-400-121714
Date Collected: 12/17/14 11:05
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-22
Matrix: Water

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		0.024	0.014	mg/L		12/24/14 14:38	12/29/14 17:13	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/24/14 14:38	12/29/14 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*50 - 150*	*12/24/14 14:38*	*12/29/14 17:13*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 2A-W-42-121714
Date Collected: 12/17/14 11:15
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-23
Matrix: Water

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	Y	0.024	0.014	mg/L		12/24/14 14:38	12/29/14 17:31	1
Motor Oil (>C24-C36)	0.097	Y	0.048	0.0093	mg/L		12/24/14 14:38	12/29/14 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*12/24/14 14:38*	*12/29/14 17:31*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 1C-W-8-121714
Date Collected: 12/17/14 12:25
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-24
Matrix: Water

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	Y	0.024	0.014	mg/L		12/30/14 10:47	12/30/14 15:44	1
Motor Oil (>C24-C36)	0.076	Y	0.048	0.0093	mg/L		12/30/14 10:47	12/30/14 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*12/30/14 10:47*	*12/30/14 15:44*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 2A-W-41-121714
Date Collected: 12/17/14 12:29
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-25
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.16	Y	0.024	0.014	mg/L		12/30/14 10:47	12/30/14 16:00	1
Motor Oil (>C24-C36)	0.13	Y	0.047	0.0093	mg/L		12/30/14 10:47	12/30/14 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*12/30/14 10:47*	*12/30/14 16:00*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: WV1-121714
Date Collected: 12/17/14 14:30
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-26
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.073	Y	0.024	0.014	mg/L		12/30/14 10:47	12/30/14 16:16	1
Motor Oil (>C24-C36)	0.14	Y	0.048	0.0093	mg/L		12/30/14 10:47	12/30/14 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*50 - 150*	*12/30/14 10:47*	*12/30/14 16:16*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 1C-W-7-121714
Date Collected: 12/17/14 14:35
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-27
Matrix: Water

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	Y	0.024	0.014	mg/L		12/30/14 10:47	12/30/14 16:32	1
Motor Oil (>C24-C36)	0.067	Y	0.048	0.0093	mg/L		12/30/14 10:47	12/30/14 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*12/30/14 10:47*	*12/30/14 16:32*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: WV2-121714
Date Collected: 12/17/14 14:45
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-28
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.49	Y	0.024	0.014	mg/L		12/30/14 10:47	12/30/14 16:48	1
Motor Oil (>C24-C36)	0.45	Y	0.047	0.0093	mg/L		12/30/14 10:47	12/30/14 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*12/30/14 10:47*	*12/30/14 16:48*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: CV1-121714
Date Collected: 12/17/14 15:00
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-29
Matrix: Water

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	Y	0.024	0.014	mg/L		12/30/14 10:47	12/30/14 17:04	1
Motor Oil (>C24-C36)	0.28	Y	0.048	0.0094	mg/L		12/30/14 10:47	12/30/14 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*12/30/14 10:47*	*12/30/14 17:04*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: CV2-121714
Date Collected: 12/17/14 15:10
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-30
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.45	Y	0.024	0.014	mg/L		12/30/14 10:47	12/30/14 17:20	1
Motor Oil (>C24-C36)	0.25	Y	0.048	0.0094	mg/L		12/30/14 10:47	12/30/14 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*50 - 150*	*12/30/14 10:47*	*12/30/14 17:20*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 1B-W-23-121714
Date Collected: 12/17/14 15:25
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-31
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.021	J	0.024	0.014	mg/L		12/30/14 10:47	12/30/14 17:52	1
Motor Oil (>C24-C36)	0.049	Y	0.048	0.0093	mg/L		12/30/14 10:47	12/30/14 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*12/30/14 10:47*	*12/30/14 17:52*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: CV3-121714
Date Collected: 12/17/14 15:30
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-32
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.39	Y	0.024	0.014	mg/L		12/30/14 10:47	12/30/14 18:08	1
Motor Oil (>C24-C36)	0.27	Y	0.047	0.0093	mg/L		12/30/14 10:47	12/30/14 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*50 - 150*	*12/30/14 10:47*	*12/30/14 18:08*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: GW-3-121714
Date Collected: 12/17/14 16:30
Date Received: 12/18/14 13:20

Lab Sample ID: 580-46788-33
Matrix: Water

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		0.024	0.014	mg/L		12/30/14 10:47	12/30/14 18:24	1
Motor Oil (>C24-C36)	0.077		0.047	0.0093	mg/L		12/30/14 10:47	12/30/14 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*50 - 150*	*12/30/14 10:47*	*12/30/14 18:24*	*1*

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

Lab Sample ID: MB 580-178889/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 179054 — **Prep Batch: 178889**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		12/23/14 15:50	12/29/14 13:42	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		12/23/14 15:50	12/29/14 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*12/23/14 15:50*	*12/29/14 13:42*	*1*

Lab Sample ID: LCS 580-178889/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 179054 — **Prep Batch: 178889**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.420		mg/L		84	59 - 120
Motor Oil (>C24-C36)	0.502	0.448		mg/L		89	71 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*91*		*50 - 150*

Lab Sample ID: LCSD 580-178889/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 179054 — **Prep Batch: 178889**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.380		mg/L		76	59 - 120	10	27
Motor Oil (>C24-C36)	0.502	0.409		mg/L		82	71 - 140	9	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*82*		*50 - 150*

Lab Sample ID: MB 580-178992/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 179025 — **Prep Batch: 178992**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		12/24/14 14:38	12/29/14 12:43	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		12/24/14 14:38	12/29/14 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*50 - 150*	*12/24/14 14:38*	*12/29/14 12:43*	*1*

Lab Sample ID: LCS 580-178992/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 179025 — **Prep Batch: 178992**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.312		mg/L		62	59 - 120
Motor Oil (>C24-C36)	0.502	0.354		mg/L		71	71 - 140

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

Lab Sample ID: LCS 580-178992/2-A
Matrix: Water
Analysis Batch: 179025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178992

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	79		50 - 150

Lab Sample ID: LCSD 580-178992/3-A
Matrix: Water
Analysis Batch: 179025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 178992

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.382		mg/L		76	59 - 120	20	27
Motor Oil (>C24-C36)			0.502	0.424		mg/L		84	71 - 140	18	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	83		50 - 150

Lab Sample ID: MB 580-179154/1-A
Matrix: Water
Analysis Batch: 179124

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		12/30/14 10:47	12/30/14 14:56	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		12/30/14 10:47	12/30/14 14:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	12/30/14 10:47	12/30/14 14:56	1

Lab Sample ID: LCS 580-179154/2-A
Matrix: Water
Analysis Batch: 179124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179154

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			0.500	0.403		mg/L		80	59 - 120
Motor Oil (>C24-C36)			0.502	0.421		mg/L		84	71 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	87		50 - 150

Lab Sample ID: LCSD 580-179154/3-A
Matrix: Water
Analysis Batch: 179124

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 179154

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.413		mg/L		83	59 - 120	3	27
Motor Oil (>C24-C36)			0.502	0.437		mg/L		87	71 - 140	4	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	87		50 - 150

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: MW-3-121614
Lab Sample ID: 580-46788-1
Date Collected: 12/16/14 09:31
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 16:22	JJP	TAL SEA

Client Sample ID: 5-W-18-121614
Lab Sample ID: 580-46788-2
Date Collected: 12/16/14 09:51
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 16:38	JJP	TAL SEA

Client Sample ID: 5-W-19-121614
Lab Sample ID: 580-46788-3
Date Collected: 12/16/14 10:05
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 16:54	JJP	TAL SEA

Client Sample ID: MW-4-121614
Lab Sample ID: 580-46788-4
Date Collected: 12/16/14 10:22
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 17:10	JJP	TAL SEA

Client Sample ID: 5-W-16-121614
Lab Sample ID: 580-46788-5
Date Collected: 12/16/14 11:12
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 17:26	JJP	TAL SEA

Client Sample ID: 2A-W-10-121614
Lab Sample ID: 580-46788-6
Date Collected: 12/16/14 11:24
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 17:42	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 5-W-14-121614

Lab Sample ID: 580-46788-7

Date Collected: 12/16/14 12:08
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 17:58	JJP	TAL SEA

Client Sample ID: 5-W-17-121614

Lab Sample ID: 580-46788-8

Date Collected: 12/16/14 12:20
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 18:30	JJP	TAL SEA

Client Sample ID: 2A-W-9-121614

Lab Sample ID: 580-46788-9

Date Collected: 12/16/14 12:53
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 18:46	JJP	TAL SEA

Client Sample ID: 5-W-170-121614

Lab Sample ID: 580-46788-10

Date Collected: 12/16/14 13:10
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 19:02	JJP	TAL SEA

Client Sample ID: EW-2A-121614

Lab Sample ID: 580-46788-11

Date Collected: 12/16/14 14:27
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 19:18	JJP	TAL SEA

Client Sample ID: 5-W-15-121614

Lab Sample ID: 580-46788-12

Date Collected: 12/16/14 14:30
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 19:34	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: GW-4-121614

Lab Sample ID: 580-46788-13

Date Collected: 12/16/14 15:16

Matrix: Water

Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178889	12/23/14 15:50	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179054	12/29/14 19:50	JJP	TAL SEA

Client Sample ID: 5-W-43-121614

Lab Sample ID: 580-46788-14

Date Collected: 12/16/14 15:25

Matrix: Water

Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178992	12/24/14 14:38	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179025	12/29/14 14:49	JJP	TAL SEA

Client Sample ID: EW-1-121614

Lab Sample ID: 580-46788-15

Date Collected: 12/16/14 16:15

Matrix: Water

Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178992	12/24/14 14:38	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179025	12/29/14 15:07	JJP	TAL SEA

Client Sample ID: GW-1-121614

Lab Sample ID: 580-46788-16

Date Collected: 12/16/14 16:18

Matrix: Water

Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178992	12/24/14 14:38	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179025	12/29/14 15:25	JJP	TAL SEA

Client Sample ID: GW-2-121614

Lab Sample ID: 580-46788-17

Date Collected: 12/16/14 16:52

Matrix: Water

Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178992	12/24/14 14:38	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179025	12/29/14 15:43	JJP	TAL SEA

Client Sample ID: 2B-W-4-121714

Lab Sample ID: 580-46788-18

Date Collected: 12/17/14 09:17

Matrix: Water

Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178992	12/24/14 14:38	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179025	12/29/14 16:01	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 2B-W-40-121714

Lab Sample ID: 580-46788-19

Date Collected: 12/17/14 09:20
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178992	12/24/14 14:38	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179025	12/29/14 16:19	JJP	TAL SEA

Client Sample ID: 1B-W-3-121714

Lab Sample ID: 580-46788-20

Date Collected: 12/17/14 09:30
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178992	12/24/14 14:38	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179025	12/29/14 16:37	JJP	TAL SEA

Client Sample ID: 2A-W-40-121714

Lab Sample ID: 580-46788-21

Date Collected: 12/17/14 11:02
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178992	12/24/14 14:38	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179025	12/29/14 16:55	JJP	TAL SEA

Client Sample ID: 2A-W-400-121714

Lab Sample ID: 580-46788-22

Date Collected: 12/17/14 11:05
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178992	12/24/14 14:38	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179025	12/29/14 17:13	JJP	TAL SEA

Client Sample ID: 2A-W-42-121714

Lab Sample ID: 580-46788-23

Date Collected: 12/17/14 11:15
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			178992	12/24/14 14:38	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179025	12/29/14 17:31	JJP	TAL SEA

Client Sample ID: 1C-W-8-121714

Lab Sample ID: 580-46788-24

Date Collected: 12/17/14 12:25
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			179154	12/30/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179124	12/30/14 15:44	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 2A-W-41-121714

Lab Sample ID: 580-46788-25

Date Collected: 12/17/14 12:29
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			179154	12/30/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179124	12/30/14 16:00	JJP	TAL SEA

Client Sample ID: WV1-121714

Lab Sample ID: 580-46788-26

Date Collected: 12/17/14 14:30
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			179154	12/30/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179124	12/30/14 16:16	JJP	TAL SEA

Client Sample ID: 1C-W-7-121714

Lab Sample ID: 580-46788-27

Date Collected: 12/17/14 14:35
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			179154	12/30/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179124	12/30/14 16:32	JJP	TAL SEA

Client Sample ID: WV2-121714

Lab Sample ID: 580-46788-28

Date Collected: 12/17/14 14:45
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			179154	12/30/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179124	12/30/14 16:48	JJP	TAL SEA

Client Sample ID: CV1-121714

Lab Sample ID: 580-46788-29

Date Collected: 12/17/14 15:00
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			179154	12/30/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179124	12/30/14 17:04	JJP	TAL SEA

Client Sample ID: CV2-121714

Lab Sample ID: 580-46788-30

Date Collected: 12/17/14 15:10
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			179154	12/30/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179124	12/30/14 17:20	JJP	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Client Sample ID: 1B-W-23-121714

Lab Sample ID: 580-46788-31

Date Collected: 12/17/14 15:25
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			179154	12/30/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179124	12/30/14 17:52	JJP	TAL SEA

Client Sample ID: CV3-121714

Lab Sample ID: 580-46788-32

Date Collected: 12/17/14 15:30
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			179154	12/30/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179124	12/30/14 18:08	JJP	TAL SEA

Client Sample ID: GW-3-121714

Lab Sample ID: 580-46788-33

Date Collected: 12/17/14 16:30
Matrix: Water
Date Received: 12/18/14 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			179154	12/30/14 10:47	WJR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	179124	12/30/14 18:24	JJP	TAL SEA

Laboratory References:

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

Certification Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-15
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-15
US Fish & Wildlife	Federal		LE192332-0	02-28-16
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Groundwater Quarterly

TestAmerica Job ID: 580-46788-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-46788-1	MW-3-121614	Water	12/16/14 09:31	12/18/14 13:20
580-46788-2	5-W-18-121614	Water	12/16/14 09:51	12/18/14 13:20
580-46788-3	5-W-19-121614	Water	12/16/14 10:05	12/18/14 13:20
580-46788-4	MW-4-121614	Water	12/16/14 10:22	12/18/14 13:20
580-46788-5	5-W-16-121614	Water	12/16/14 11:12	12/18/14 13:20
580-46788-6	2A-W-10-121614	Water	12/16/14 11:24	12/18/14 13:20
580-46788-7	5-W-14-121614	Water	12/16/14 12:08	12/18/14 13:20
580-46788-8	5-W-17-121614	Water	12/16/14 12:20	12/18/14 13:20
580-46788-9	2A-W-9-121614	Water	12/16/14 12:53	12/18/14 13:20
580-46788-10	5-W-170-121614	Water	12/16/14 13:10	12/18/14 13:20
580-46788-11	EW-2A-121614	Water	12/16/14 14:27	12/18/14 13:20
580-46788-12	5-W-15-121614	Water	12/16/14 14:30	12/18/14 13:20
580-46788-13	GW-4-121614	Water	12/16/14 15:16	12/18/14 13:20
580-46788-14	5-W-43-121614	Water	12/16/14 15:25	12/18/14 13:20
580-46788-15	EW-1-121614	Water	12/16/14 16:15	12/18/14 13:20
580-46788-16	GW-1-121614	Water	12/16/14 16:18	12/18/14 13:20
580-46788-17	GW-2-121614	Water	12/16/14 16:52	12/18/14 13:20
580-46788-18	2B-W-4-121714	Water	12/17/14 09:17	12/18/14 13:20
580-46788-19	2B-W-40-121714	Water	12/17/14 09:20	12/18/14 13:20
580-46788-20	1B-W-3-121714	Water	12/17/14 09:30	12/18/14 13:20
580-46788-21	2A-W-40-121714	Water	12/17/14 11:02	12/18/14 13:20
580-46788-22	2A-W-400-121714	Water	12/17/14 11:05	12/18/14 13:20
580-46788-23	2A-W-42-121714	Water	12/17/14 11:15	12/18/14 13:20
580-46788-24	1C-W-8-121714	Water	12/17/14 12:25	12/18/14 13:20
580-46788-25	2A-W-41-121714	Water	12/17/14 12:29	12/18/14 13:20
580-46788-26	WV1-121714	Water	12/17/14 14:30	12/18/14 13:20
580-46788-27	1C-W-7-121714	Water	12/17/14 14:35	12/18/14 13:20
580-46788-28	WV2-121714	Water	12/17/14 14:45	12/18/14 13:20
580-46788-29	CV1-121714	Water	12/17/14 15:00	12/18/14 13:20
580-46788-30	CV2-121714	Water	12/17/14 15:10	12/18/14 13:20
580-46788-31	1B-W-23-121714	Water	12/17/14 15:25	12/18/14 13:20
580-46788-32	CV3-121714	Water	12/17/14 15:30	12/18/14 13:20
580-46788-33	GW-3-121714	Water	12/17/14 16:30	12/18/14 13:20

BNSF RAILWAY

CHAIN OF CUSTODY

LAB WORK ORDER: 46788

LABORATORY INFORMATION

Laboratory: Test America
Address: 5755 8th St E
City/State/ZIP: Tacoma, WA 98424
Project Manager: Chris Allen
Phone: (253) 922-2310
Fax:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: Skykomish
BNSF Project Name: BNSF Skykomish Groundwater Quarterly
BNSF Contact: Bruce Sheppard
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: Farallon
Address: 975 5th Ave NW
City/State/ZIP: Issaquah, WA 98027
Project Number: 683-043
Project Manager: Jerry Portele
Email: JPortele@farallonconsulting.com
Phone: (425) 295-0800 Fax: (425) 295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Sample Collection Time	Sample Collection Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	METHODS FOR ANALYSIS: NWTPH-Dx	COMMENTS	LAB USE
1	MW-3-121614 -1	2	12/16/14	0931		N		Water	X		
2	5-W-18-121614	2	12/16/14	0951		N		Water	X		
3	5-W-19-121614 -3	2	12/16/14	1005		N		Water	X		
4	MW-4-121614	2	12/16/14	1022 Rp		N		Water	X		
5	5-W-16-121614 -5	2	12/16/14	1112		N		Water	X		
6	2A-W-10-121614	2	12/16/14	1124		N		Water	X		
7	5-W-14-121614 -7	2	12/16/14	1208		N		Water	X		
8	5-W-17-121614	2	12/16/14	1220		N		Water	X		
9	2A-W-9-121614 -9	2	12/16/14	1253		N		Water	X		
10	5-W-170-121614	2	12/16/14	1310		N		Water	X		
11	EW-2A-121614 -11	2	12/16/14	1427		N		Water	X		
12	5-W-15-121614	2	12/16/14	1430		N		Water	X		
13	GW-4-121614 -13	2	12/16/14	1516		N		Water	X		
14	5-W-43-121614	2	12/16/14	1525		N		Water	X		
15	EW-1-121614 -15	2	12/16/14	1615		N		Water	X		

580-46788 Chain of Custody

Relinquished By: Ryan Ostrom	Date/Time: 12/18/14 1200	Received By:	Date/Time: 12/18/14 1320
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)

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1/9/2015

BNSF RAILWAY

CHAIN OF CUSTODY

LAB WORK ORDER: 46788

LABORATORY INFORMATION

Laboratory: Test America
Project Manager: Chris Allen
Address: 5755 8th St E
Phone: (253) 922-2310
City/State/ZIP: Tacoma, WA 98424
Fax:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: Skykomish
BNSF Project Name: BNSF Skykomish Groundwater Quarterly
BNSF Contact: Bruce Sheppard
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: Farallon
Project Number: 683-043
Project Manager: Jerry Portele
Address: 975 5th Ave NW
Email: JPortele@FarallonConsulting.com
City/State/ZIP: Issaquah, WA, 98027
Phone: (425) 295-0800
Fax: (425) 295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

METHODS FOR ANALYSIS

NWTPH-Dx

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx	COMMENTS	LAB USE
1	GW-1-121614	2	12/16/14	1618		N		Water	X		
2	GW-2-121614 -17	2	12/16/14	1652		N		Water	X		
3	2B-W-4-121714	2	12/17/14	0917		N		Water	X		
4	2B-W-40-121714 -19	2	12/17/14	0920		N		Water	X		
5	1B-W-3-121714	2	12/17/14	0930		N		Water	X		
6	2A-W-40-121714 -21	2	12/17/14	1102		N		Water	X		
7	2A-W-400-121714	2	12/17/14	1105		N		Water	X		
8	2A-W-42-121714 -23	2	12/17/14	1115		N		Water	X		
9	1C-W-8-121714	2	12/17/14	1225		N		Water	X		
10	2A-W-41-121714 -25	2	12/17/14	1229		N		Water	X		
11	WV1-121714	2	12/17/14	1430		N		Water	X		
12	1C-W-7-121714 -27	2	12/17/14	1435		N		Water	X		
13	WV2-121714	2	12/17/14	1445		N		Water	X		
14	CV1-121714 -29	2	12/17/14	1500		N		Water	X		
15	CV2-121714	2	12/17/14	1510		N		Water	X		

Relinquished By: Ryan Ostrom	Date/Time: 12/18/14 1200	Received By:	Date/Time: 12/18/14 1320
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)

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1/9/2015

46788

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: Test America | Project Manager: Chris Allen
Address: 5755 8th St E | Phone: (253) 922-2310
City/State/ZIP: Tacoma, WA 98424 | Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: Skykomish
BNSF Project Name: BNSF Skykomish Groundwater Quarterly
BNSF Contact: Bruce Sheppard
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: Farallon
Address: 975 5th Ave NW
City/State/ZIP: Issaquah, WA 98027
Project Number: 683-043
Project Manager: Jerry Portele
Email: JPortele@FarallonConsulting.com
Phone: (425) 295-0800 Fax: (425) 295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [ ] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other _____

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables? _____
- [ ] EDD Req, Format? _____

METHODS FOR ANALYSIS

NWTPH-Dx

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	NWTPH-Dx	COMMENTS	LAB USE
1	1B-W-23-121714 -31	2	12/17/14	1525		N		Water	X		
2	CV3-121714	2	12/17/14	1530		N		Water	X		
3	GW-3-121714 -33	2	12/17/14	1630		N		Water	X		
4											
5											
6											
7											
8	RO										
9											
10											
11											
12											
13											
14											
15											

Relinquished By: Ryan Ostrom	Date/Time: 12/18/14 1200	Received By:	Date/Time: 12/18/14 1320	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? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (0912)

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-46788-1

Login Number: 46788

List Source: TestAmerica Seattle

List Number: 1

Creator: Pilch, Andrew C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	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

2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

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Sayler Data Solutions, Inc.

DATA VALIDATION REPORT

Skykomish Groundwater Monitoring January –March 2014 Data

Prepared for:
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, Washington 98027

July 22, 2014

1.0 Introduction

The following water samples were validated:

Sample ID	Sample Date/ Time	Lab ID	Analysis
1B-W-3-011714	01/17/2014 11:29	580-42035-1	NWTPH-Dx
1C-W-7-011714	01/17/2014 12:45	580-42035-2	NWTPH-Dx
1C-W-70-011714	01/17/2014 12:50	580-42035-3	NWTPH-Dx
1C-W-8-011714	01/17/2014 13:36	580-42035-4	NWTPH-Dx
1B-W-3-021814	02/18/2014 13:14	580-42413-1	NWTPH-Dx
1C-W-7-021814	02/18/2014 14:14	580-42413-2	NWTPH-Dx
1C-W-70-021814	02/18/2014 14:19	580-42413-3	NWTPH-Dx
1C-W-8-021814	02/18/2014 15:18	580-42413-4	NWTPH-Dx
MW-38R-032014	03/20/2014 09:38	580-42898-01	NWTPH-Dx
5-W-19-032014	03/20/2014 10:39	580-42898-02	NWTPH-Dx
5-W-16-032014	03/20/2014 11:38	580-42898-03	NWTPH-Dx
5-W-15-032014	03/20/2014 13:29	580-42898-04	NWTPH-Dx
5-W-17-032014	03/20/2014 14:07	580-42898-05	NWTPH-Dx
5-W-14-032014	03/20/2014 14:58	580-42898-06	NWTPH-Dx
5-W-190-032014	03/20/2014 16:00	580-42898-07	NWTPH-Dx
5-W-43-031914	03/19/2014 12:15	580-42898-08	NWTPH-Dx
5-W-430-031914	03/19/2014 12:34	580-42898-09	NWTPH-Dx
GW-30-031914	03/19/2014 13:57	580-42898-10	NWTPH-Dx
GW-1-031914	03/19/2014 14:19	580-42898-11	NWTPH-Dx
GW-2-031914	03/19/2014 14:21	580-42898-12	NWTPH-Dx
2A-W-40-031914	03/19/2014 14:57	580-42898-13	NWTPH-Dx
GW-3-031914	03/19/2014 15:26	580-42898-14	NWTPH-Dx
2A-W-9-031914	03/19/2014 16:20	580-42898-15	NWTPH-Dx
2A-W-41-031914	03/19/2014 17:06	580-42898-16	NWTPH-Dx
2A-W-420-031914	03/19/2014 17:43	580-42898-17	NWTPH-Dx
S1-AU-031714	03/17/2014 16:23	580-42898-18	NWTPH-Dx
S1-BU-031714	03/17/2014 16:13	580-42898-19	NWTPH-Dx

Sample ID	Sample Date/ Time	Lab ID	Analysis
S1-BD-031714	03/17/2014 16:34	580-42898-20	NWTPH-Dx
S1-AD-031714	03/17/2014 16:34	580-42898-21	NWTPH-Dx
S2-BU-031714	03/17/2014 17:10	580-42898-22	NWTPH-Dx
S2-AD-031714	03/17/2014 17:11	580-42898-23	NWTPH-Dx
S2-BD-031714	03/17/2014 17:13	580-42898-24	NWTPH-Dx
S2-AU-031714	03/17/2014 17:31	580-42898-25	NWTPH-Dx
S4-AD-031814	03/18/2014 08:28	580-42898-26	NWTPH-Dx
S4-CU-031814	03/18/2014 08:30	580-42898-27	NWTPH-Dx
S4-BU-031814	03/18/2014 08:33	580-42898-28	NWTPH-Dx
S4-CD-031814	03/18/2014 08:46	580-42898-29	NWTPH-Dx
S4-AU-031814	03/18/2014 08:46	580-42898-30	NWTPH-Dx
S4-BD-031814	03/18/2014 08:59	580-42898-31	NWTPH-Dx
S3-AD-031814	03/18/2014 09:16	580-42898-32	NWTPH-Dx
S3-CU-031814	03/18/2014 09:24	580-42898-33	NWTPH-Dx
S3-BU-031814	03/18/2014 09:31	580-42898-34	NWTPH-Dx
S3-AU-031814	03/18/2014 09:33	580-42898-35	NWTPH-Dx
S3-CD-031814	03/18/2014 09:37	580-42898-36	NWTPH-Dx
S3-BD-031814	03/18/2014 09:58	580-42898-37	NWTPH-Dx
2B-W-4-031814	03/18/2014 11:19	580-42898-38	NWTPH-Dx
EW-2A-031814	03/18/2014 11:31	580-42898-39	NWTPH-Dx
1C-W-3-031814	03/18/2014 11:39	580-42898-40	NWTPH-Dx
MW-4-031814	03/18/2014 12:18	580-42898-41	NWTPH-Dx
1C-W-4-031814	03/18/2014 12:23	580-42898-42	NWTPH-Dx
GW-4-031814	03/18/2014 13:03	580-42898-43	NWTPH-Dx
2A-W-10-031814	03/18/2014 14:31	580-42898-44	NWTPH-Dx
1C-W-80-031814	03/18/2014 14:47	580-42898-45	NWTPH-Dx
1C-W-1-031814	03/18/2014 14:48	580-42898-46	NWTPH-Dx
1C-W-8-031814	03/18/2014 15:03	580-42898-47	NWTPH-Dx
2B-W-40-031814	03/18/2014 16:00	580-42898-48	NWTPH-Dx
5-W-18-031814	03/18/2014 16:19	580-42898-49	NWTPH-Dx
5-W-56-031814	03/18/2014 16:36	580-42898-50	NWTPH-Dx
5-W-54-031814	03/18/2014 16:53	580-42898-51	NWTPH-Dx
5-W-50-031914	03/18/2014 17:46	580-42898-52	NWTPH-Dx
5-W-55-031914	03/18/2014 17:51	580-42898-53	NWTPH-Dx
1B-W-2-031914	03/19/2014 09:43	580-42898-54	NWTPH-Dx
1B-W-3-031914	03/19/2014 08:57	580-42898-55	NWTPH-Dx
MW-3-031914	03/19/2014 09:29	580-42898-56	NWTPH-Dx
1C-W-7-031914	03/19/2014 09:38	580-42898-57	NWTPH-Dx
MW-16-031914	03/19/2014 10:20	580-42898-58	NWTPH-Dx
2A-W-42-031914	03/19/2014 10:27	580-42898-59	NWTPH-Dx
1B-W-23-031914	03/19/2014 10:33	580-42898-60	NWTPH-Dx
1A-W-4-031914	03/19/2014 11:31	580-42898-61	NWTPH-Dx
EW-1-031914	03/19/2014 11:59	580-42898-62	NWTPH-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 Sayler.

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 listed in section 4.0 below.

2.0 Precision, Accuracy, Representativeness, Comparability, and Completeness

Sample analysis frequencies: Monthly sampling currently includes samples from three water sample locations. Quarterly sampling includes 22 additional water sample locations, and semi-annual sampling includes 32 additional water samples. This round of sampling includes monthly, quarterly, and semi-annual locations.

No sample was collected from location 5-W-51. This location is not required to be sampled because free product was present. All intended samples were collected 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. These methods are approved EPA methods and therefore meet comparability requirements.

Precision, accuracy and completeness: Precision and accuracy measurements were within laboratory control limits. Some results were estimated due to blank contamination. Blank contamination also caused elevated reporting limits in some samples. No data were rejected.

A data completeness of 100% was calculated based on 62 of 62 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. Laboratory duplicates may have been analyzed but not reported because non-project samples were utilized. Data qualifiers are not required due to a lack of reported 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 blank results: Criteria for blanks are that analyte concentrations must be below the PQL, or below 5% of the lowest associated sample concentration.

Motor oil ($>C_{24}$-C_{36}) was detected in the method blanks as listed below:

Blank ID	Analyte	Concentration (mg/L)	RL (mg/L)
MB 580-156008/1-A	Motor Oil (>C24-C36)	0.0116J	0.050
MB 580-154113/1-A	Motor Oil (>C24-C36)	0.0157J	0.050

Sample results less than five times the method blank level should be considered not detected at the reported concentration and are qualified "U". Samples results which are below both the PQL and the five times action level are qualified as both estimated and not detected "UJ". Sample results between five and ten times the method blank level are qualified as estimated "J".

Surrogate recoveries: Laboratory control limits were 50-150%. Surrogate recoveries were within limits.

LCS recoveries: Laboratory control limits ranged from 65-125% to 70-140%. LCS recoveries were within limits.

LCS/LCSD RPDs: The laboratory control limit was <27%. 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%.

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 other qualifiers were added based on a review of the laboratory narratives.

Diesel and oil range petroleum hydrocarbon data are acceptable for use as qualified.

4.0 Validation Qualifiers

Client ID	Analyte	Qualifier	Reason
1B-W-3-021814	Motor Oil (>C24-C36)	U	Blank Contamination
1C-W-70-021814	Motor Oil (>C24-C36)	J	Blank Contamination
1C-W-7-021814	Motor Oil (>C24-C36)	J	Blank Contamination
S1-AD-031714	Motor Oil (>C24-C36)	U	Blank Contamination
S1-AU-031714	Motor Oil (>C24-C36)	U	Blank Contamination
S1-BD-031714	Motor Oil (>C24-C36)	U	Blank Contamination
S1-BU-031714	Motor Oil (>C24-C36)	U	Blank Contamination
S2-AD-031714	Motor Oil (>C24-C36)	U	Blank Contamination
S2-AU-031714	Motor Oil (>C24-C36)	U	Blank Contamination
S2-BD-031714	Motor Oil (>C24-C36)	U	Blank Contamination
S2-BU-031714	Motor Oil (>C24-C36)	U	Blank Contamination
S3-AD-031814	Motor Oil (>C24-C36)	U	Blank Contamination
S3-AU-031814	Motor Oil (>C24-C36)	U	Blank Contamination
S3-BU-031814	Motor Oil (>C24-C36)	U	Blank Contamination
S3-CD-031814	Motor Oil (>C24-C36)	U	Blank Contamination
S3-CU-031814	Motor Oil (>C24-C36)	U	Blank Contamination
S4-AD-031814	Motor Oil (>C24-C36)	U	Blank Contamination
S4-AU-031814	Motor Oil (>C24-C36)	U	Blank Contamination
S4-BD-031814	Motor Oil (>C24-C36)	U	Blank Contamination

Client ID	Analyte	Qualifier	Reason
S4-BU-031814	Motor Oil (>C24-C36)	U	Blank Contamination
S4-CD-031814	Motor Oil (>C24-C36)	U	Blank Contamination
S4-CU-031814	Motor Oil (>C24-C36)	U	Blank Contamination

5.0 Abbreviations and Definitions

DV Qualifier	Definition
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.

Abbreviation	Definition
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.

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Sayler Data Solutions, Inc.

DATA VALIDATION REPORT

Skykomish Groundwater Monitoring April –June 2014 Data

Prepared for:
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, Washington 98027

February 9, 2015

1.0 Introduction

The following water samples were validated:

Sample ID	Sample Date/ Time	Lab ID	Analysis
1B-W-3-042114	04/21/2014 12:03	580-43330-1	NWTPH-Dx
1C-W-7-042114	04/21/2014 12:54	580-43330-2	NWTPH-Dx
1C-W-8-042114	04/21/2014 13:52	580-43330-3	NWTPH-Dx
1C-W-80-042114	04/21/2014 16:00	580-43330-4	NWTPH-Dx
1B-W-3-052014	05/20/2014 11:36	580-43715-1	NWTPH-Dx
1C-W-7-052014	05/20/2014 12:25	580-43715-2	NWTPH-Dx
1C-W-8-052014	05/20/2014 13:24	580-43715-3	NWTPH-Dx
1C-W-80-052014	05/20/2014 16:00	580-43715-4	NWTPH-Dx
1C-W-1-061814	06/18/2014 13:05	580-44190-1	NWTPH-Dx
1C-W-7-061814	06/18/2014 11:00	580-44190-2	NWTPH-Dx
1C-W-8-061814	06/18/2014 13:50	580-44190-3	NWTPH-Dx
1C-W-80-061814	06/18/2014 16:00	580-44190-4	NWTPH-Dx
2A-W-10-061814	06/18/2014 12:35	580-44190-5	NWTPH-Dx
2A-W-9-061814	06/18/2014 13:10	580-44190-6	NWTPH-Dx
2B-W-4-061814	06/18/2014 09:45	580-44190-7	NWTPH-Dx
MW-3-061814	06/18/2014 11:30	580-44190-8	NWTPH-Dx
MW-4-061814	06/18/2014 12:05	580-44190-9	NWTPH-Dx
EW-1-061714	06/17/2014 10:42	580-44190-10	NWTPH-Dx
EW-2A-061814	06/18/2014 10:25	580-44190-11	NWTPH-Dx
GW-1-061714	06/17/2014 12:03	580-44190-12	NWTPH-Dx
GW-2-061714	06/17/2014 12:15	580-44190-13	NWTPH-Dx
GW-20-061714	06/17/2014 16:00	580-44190-14	NWTPH-Dx
GW-3-061714	06/17/2014 15:45	580-44190-15	NWTPH-Dx
GW-30-061714	06/17/2014 16:01	580-44190-16	NWTPH-Dx
GW-4-061814	06/18/2014 12:00	580-44190-17	NWTPH-Dx

Sample ID	Sample Date/ Time	Lab ID	Analysis
5-W-14-061814	06/17/2014 15:05	580-44190-18	NWTPH-Dx
5-W-15-061714	06/17/2014 13:10	580-44190-19	NWTPH-Dx
5-W-16-061714	06/17/2014 11:50	580-44190-20	NWTPH-Dx
5-W-17-061714	06/17/2014 14:05	580-44190-21	NWTPH-Dx
5-W-18-061714	06/17/2014 10:53	580-44190-22	NWTPH-Dx
5-W-19-061714	06/17/2014 10:00	580-44190-23	NWTPH-Dx
1B-W-23-061714	06/17/2014 16:40	580-44190-24	NWTPH-Dx
2A-W-40-061714	06/17/2014 14:25	580-44190-25	NWTPH-Dx
2A-W-41-061714	06/17/2014 14:08	580-44190-26	NWTPH-Dx
2A-W-42-061714	06/17/2014 15:55	580-44190-27	NWTPH-Dx
1B-W-3-061814	06/18/2014 10:07	580-44190-28	NWTPH-Dx
5-W-43-061714	06/17/2014 09:58	580-44190-29	NWTPH-Dx

Samples were analyzed by Test America, Tacoma, Washington.

A stage 2A summary validation was performed on the analytical results including from the hardcopy (portable document format) for Laboratory batched 580-43330 and 580-43715, earning EPA OSWER validation label code S2AVM, and on the analytical results from both the hardcopy (portable document format) and electronic data deliverable for laboratory batch 580-44190, earning EPA OSWER validation label code S2AVEM. Validation was performed by Cari Sayler.

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 listed in section 4.0 below.

2.0 Precision, Accuracy, Representativeness, Comparability, and Completeness

Sample analysis frequencies: Monthly sampling currently includes samples from three water sample locations. Quarterly sampling includes 23 additional water sample locations, and semi-annual sampling includes 32 additional water samples. This round of sampling includes monthly and quarterly locations.

All intended samples were collected 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. These methods are approved EPA methods and therefore meet comparability requirements.

Precision, accuracy and completeness: Precision and accuracy measurements were within laboratory control limits. Results in one sample were estimated due to blank contamination and holding time exceedances. Blank contamination also caused one elevated reporting limit in this sample. No data were rejected.

A data completeness of 100% was calculated based on 32 of 32 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. Laboratory duplicates may have been analyzed but not reported because non-project samples were utilized. Data qualifiers are not required due to a lack of reported 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, with one exception:

Sample ID	Sample Date	Extraction Date	Elapsed Days
2A-W-40-061714	6/17/2014	7/3/2014	16

According to the narrative, this sample was a re-extraction. The initial analysis contained low surrogate recoveries and was not reported. Results in this sample are qualified as estimated.

Laboratory blank results: Criteria for blanks are that analyte concentrations must be below the PQL, or below 5% of the lowest associated sample concentration.

Motor oil (>C_{24}-C_{36}) was detected in the method blanks as listed below:

Blank ID	Analyte	Concentration (mg/L)	RL (mg/L)
MB 580-163023/1-A	Motor Oil (>C24-C36)	0.0189J	0.050

Sample results less than five times the method blank level should be considered not detected at the reported concentration and are qualified “U”. Samples results which are below both the PQL and the five times action level are qualified as both estimated and not detected “UJ”. Sample results between five and ten times the method blank level are qualified as estimated “J”.

Surrogate recoveries: Laboratory control limits were 50-150%. Surrogate recoveries were within limits.

LCS recoveries: Laboratory control limits ranged from 59-120% to 70-140%. LCS recoveries were within limits.

LCS/LCSD RPDs: The laboratory control limit was <27%. 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%.

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 other qualifiers were added based on a review of the laboratory narratives.

Diesel and oil range petroleum hydrocarbon data are acceptable for use as qualified.

4.0 Validation Qualifiers

Client ID	Analyte	Qualifier	Reason
2A-W-40-061714	#2 Diesel (C10-C24)	UJ	Hold time exceeded
2A-W-40-061714	Motor Oil (>C24-C36)	UJ	Blank Contamination, hold time exceeded

5.0 Abbreviations and Definitions

DV Qualifier	Definition
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.

Abbreviation	Definition
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.

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Sayler Data Solutions, Inc.

DATA VALIDATION REPORT

Skykomish Groundwater Monitoring - September 2014 Data

Prepared for:
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, Washington 98027

February 9, 2015

1.0 Introduction

The following water samples were validated:

Sample ID	Sample Date/ Time	Lab ID	Analysis
1A-W-4-091714	09/17/2014 12:32	580-45475-55	NWTPH-Dx
1B-W-2-091714	09/17/2014 11:20	580-45475-56	NWTPH-Dx
1B-W-3-091714	09/17/2014 10:49	580-45475-57	NWTPH-Dx
1C-W-3-091814	09/18/2014 12:52	580-45475-58	NWTPH-Dx
1C-W-4-091814	09/18/2014 13:00	580-45475-59	NWTPH-Dx
2A-W-100-091814	09/18/2014 14:54	580-45475-25	NWTPH-Dx
2A-W-10-091714	09/17/2014 14:44	580-45475-24	NWTPH-Dx
2A-W-40-091714	09/17/2014 09:33	580-45475-21	NWTPH-Dx
2A-W-41-091714	09/17/2014 11:09	580-45475-22	NWTPH-Dx
2A-W-42-091714	09/17/2014 11:57	580-45475-23	NWTPH-Dx
2B-W-4-091814	09/18/2014 13:33	580-45475-26	NWTPH-Dx
5-W-14-091614	09/16/2014 12:08	580-45475-43	NWTPH-Dx
5-W-150-091614	09/16/2014 10:35	580-45475-45	NWTPH-Dx
5-W-15-091614	09/16/2014 10:33	580-45475-44	NWTPH-Dx
5-W-16-091614	09/16/2014 10:45	580-45475-46	NWTPH-Dx
5-W-17-091614	09/16/2014 10:52	580-45475-47	NWTPH-Dx
5-W-18-091614	09/16/2014 11:45	580-45475-48	NWTPH-Dx
5-W-19-091614	09/16/2014 11:55	580-45475-49	NWTPH-Dx
5-W-43-091614	09/16/2014 13:10	580-45475-50	NWTPH-Dx
5-W-50-091614	09/16/2014 17:40	580-45475-51	NWTPH-Dx
5-W-54-091614	09/16/2014 17:55	580-45475-52	NWTPH-Dx
5-W-55-091614	09/16/2014 16:20	580-45475-53	NWTPH-Dx
5-W-56-091614	09/16/2014 16:07	580-45475-54	NWTPH-Dx
EW-1-091614	09/16/2014 13:08	580-45475-29	NWTPH-Dx
EW-2A-091814	09/18/2014 10:00	580-45475-30	NWTPH-Dx
GW-1-091614	09/16/2014 17:58	580-45475-1	NWTPH-Dx
GW-20-091614	09/16/2014 16:12	580-45475-3	NWTPH-Dx

Sample ID	Sample Date/ Time	Lab ID	Analysis
GW-2-091614	09/16/2014 16:09	580-45475-2	NWTPH-Dx
GW-30-091714	09/17/2014 13:00	580-45475-5	NWTPH-Dx
GW-3-091714	09/17/2014 09:20	580-45475-4	NWTPH-Dx
GW-4-091814	09/18/2014 10:05	580-45475-6	NWTPH-Dx
IB-W-23-091714	09/17/2014 09:13	580-45475-20	NWTPH-Dx
IC-W-1-091814	09/18/2014 11:28	580-45475-16	NWTPH-Dx
IC-W-7-091814	09/18/2014 10:10	580-45475-17	NWTPH-Dx
IC-W-80-091814	09/18/2014 12:00	580-45475-19	NWTPH-Dx
IC-W-8-091814	09/18/2014 11:25	580-45475-18	NWTPH-Dx
MW-16-091814	09/18/2014 11:28	580-45475-60	NWTPH-Dx
MW-3-091814	09/18/2014 12:33	580-45475-27	NWTPH-Dx
MW-38R-091614	09/16/2014 13:46	580-45475-61	NWTPH-Dx
MW-4-091814	09/18/2014 14:25	580-45475-28	NWTPH-Dx
S1-AD-091714	09/17/2014 16:12	580-45475-7	NWTPH-Dx
S1-AU-091714	09/17/2014 16:35	580-45475-8	NWTPH-Dx
S1-BD-091714	09/17/2014 16:10	580-45475-9	NWTPH-Dx
S1-BU-091714	09/17/2014 16:35	580-45475-10	NWTPH-Dx
S2-AD-091714	09/17/2014 17:05	580-45475-11	NWTPH-Dx
S2-AU-091714	09/17/2014 17:03	580-45475-12	NWTPH-Dx
S2-BD-091714	09/17/2014 16:10	580-45475-13	NWTPH-Dx
S2-BDO-091714	09/17/2014 16:20	580-45475-14	NWTPH-Dx
S2-BU-091714	09/17/2014 16:38	580-45475-15	NWTPH-Dx
S3-AD-091714	09/17/2014 15:09	580-45475-31	NWTPH-Dx
S3-AU-091714	09/17/2014 15:33	580-45475-32	NWTPH-Dx
S3-BD-091714	09/17/2014 15:13	580-45475-33	NWTPH-Dx
S3-BU-091714	09/17/2014 15:33	580-45475-34	NWTPH-Dx
S3-CD-091714	09/17/2014 15:10	580-45475-35	NWTPH-Dx
S3-CU-091714	09/17/2014 15:30	580-45475-36	NWTPH-Dx
S4-AD-091714	09/17/2014 14:08	580-45475-37	NWTPH-Dx
S4-AU-091714	09/17/2014 14:25	580-45475-38	NWTPH-Dx
S4-BD-091714	09/17/2014 14:15	580-45475-39	NWTPH-Dx
S4-BU-091714	09/17/2014 14:40	580-45475-40	NWTPH-Dx
S4-CD-091714	09/17/2014 14:03	580-45475-41	NWTPH-Dx
S4-CU-091714	09/17/2014 14:25	580-45475-42	NWTPH-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 Sayler.

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 listed in section 4.0 below.

2.0 Precision, Accuracy, Representativeness, Comparability, and Completeness

Sample analysis frequencies: Quarterly sampling includes 23 water sample locations, and semi-annual sampling includes an additional 34 water sample locations. This round of sampling includes both quarterly and semi-annual locations.

No sample was collected from location 5-W-51 or 2A-W-9. These locations were not required to be sampled because LNAPL was present. All required samples were collected 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. These methods are approved EPA methods and therefore meet comparability requirements.

Precision, accuracy and completeness: Precision and accuracy measurements were within laboratory control limits. Some results were estimated due to blank contamination. No data were rejected.

A data completeness of 100% was calculated based on 55 of 55 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. Laboratory duplicates may have been analyzed but not reported because non-project samples were utilized. Data qualifiers are not required due to a lack of reported 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 blank results: Criteria for blanks are that analyte concentrations must be below the PQL, or below 5% of the lowest associated sample concentration.

Target compounds were detected in the method blanks as listed below:

Blank ID	Analyte	Concentration (mg/L)	RL (mg/L)
MB 580-170522/1-A	Motor Oil (>C24-C36)	0.011J	0.05
MB 580-170586/1-A	Motor Oil (>C24-C36)	0.0132J	0.05
MB 580-171105/1-A	Motor Oil (>C24-C36)	0.0174J	0.05
MB 580-171105/1-A	#2 Diesel (C10-C24)	0.0162J	0.025

Sample results less than five times the method blank level should be considered not detected at the reported concentration and are qualified “U”. Samples results which are below both the PQL and the five times action level are qualified as both estimated and not detected “UJ”. Sample results between five and ten times the method blank level are qualified as estimated “J”.

Surrogate recoveries: Laboratory control limits were 50-150%. Surrogate recoveries were within limits.

LCS recoveries: Laboratory control limits ranged from 59-120% to 71-140%. LCS recoveries were within limits.

LCS/LCSD RPDs: The laboratory control limit was <27%. 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%.

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 other qualifiers were added based on a review of the laboratory narratives.

Diesel and oil range petroleum hydrocarbon data are acceptable for use as qualified.

4.0 Validation Qualifiers

Client ID	Analyte(s)	Qualifier	Reason
1A-W-4-091714	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	UJ	Blank Contamination
1B-W-2-091714	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	U	Blank Contamination
1B-W-3-091714	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	UJ	Blank Contamination
1C-W-3-091814	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	UJ	Blank Contamination
1C-W-4-091814	#2 Diesel (C10-C24)	U	Blank Contamination
1C-W-4-091814	Motor Oil (>C24-C36)	UJ	Blank Contamination
2A-W-40-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
2A-W-41-091714	Motor Oil (>C24-C36)	J	Blank Contamination
2A-W-42-091714	Motor Oil (>C24-C36)	J	Blank Contamination
2B-W-4-091814	Motor Oil (>C24-C36)	UJ	Blank Contamination
5-W-14-091614	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	UJ	Blank Contamination
5-W-16-091614	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	UJ	Blank Contamination
5-W-17-091614	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	UJ	Blank Contamination
5-W-18-091614	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	U	Blank Contamination
5-W-19-091614	Motor Oil (>C24-C36)	UJ	Blank Contamination
5-W-43-091614	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	UJ	Blank Contamination
5-W-54-091614	#2 Diesel (C10-C24)	U	Blank Contamination
5-W-54-091614	Motor Oil (>C24-C36)	UJ	Blank Contamination
5-W-55-091614	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	Blank Contamination
EW-1-091614	Motor Oil (>C24-C36)	UJ	Blank Contamination
EW-2A-091814	Motor Oil (>C24-C36)	UJ	Blank Contamination
GW-1-091614	Motor Oil (>C24-C36)	UJ	Blank Contamination
GW-20-091614	Motor Oil (>C24-C36)	UJ	Blank Contamination
GW-2-091614	Motor Oil (>C24-C36)	UJ	Blank Contamination
GW-4-091814	Motor Oil (>C24-C36)	UJ	Blank Contamination
IB-W-23-091714	Motor Oil (>C24-C36)	J	Blank Contamination
IC-W-1-091814	Motor Oil (>C24-C36)	UJ	Blank Contamination
IC-W-7-091814	Motor Oil (>C24-C36)	UJ	Blank Contamination
IC-W-80-091814	Motor Oil (>C24-C36)	UJ	Blank Contamination
IC-W-8-091814	Motor Oil (>C24-C36)	UJ	Blank Contamination
MW-3-091814	Motor Oil (>C24-C36)	U	Blank Contamination
S1-AD-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination

Client ID	Analyte(s)	Qualifier	Reason
S1-AU-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S1-BD-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S1-BU-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S2-AD-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S2-AU-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S2-BD-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S2-BDO-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S2-BU-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S3-AD-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S3-AU-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S3-BD-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S3-BU-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S3-CD-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S3-CU-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S4-AD-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S4-AU-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S4-BD-091714	Motor Oil (>C24-C36)	UJ	Blank Contamination
S4-BU-091714	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	UJ	Blank Contamination
S4-CD-091714	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	UJ	Blank Contamination
S4-CU-091714	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	UJ	Blank Contamination

5.0 Abbreviations and Definitions

DV Qualifier	Definition
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.

Abbreviation	Definition
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.

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DATA VALIDATION REPORT

Skykomish Groundwater Monitoring - December 2014 Data

Prepared for:
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, Washington 98027

February 11, 2015

1.0 Introduction

The following water samples were validated:

Sample ID	Sample Date/Time	Lab ID	Analysis
MW-3-121614	12/16/2014 09:31	580-46788-1	NWTPH-Dx
5-W-18-121614	12/16/2014 09:51	580-46788-2	NWTPH-Dx
5-W-19-121614	12/16/2014 10:05	580-46788-3	NWTPH-Dx
MW-4-121614	12/16/2014 10:22	580-46788-4	NWTPH-Dx
5-W-16-121614	12/16/2014 11:12	580-46788-5	NWTPH-Dx
2A-W-10-121614	12/16/2014 11:24	580-46788-6	NWTPH-Dx
5-W-14-121614	12/16/2014 12:08	580-46788-7	NWTPH-Dx
5-W-17-121614	12/16/2014 12:20	580-46788-8	NWTPH-Dx
2A-W-9-121614	12/16/2014 12:53	580-46788-9	NWTPH-Dx
5-W-170-121614	12/16/2014 13:10	580-46788-10	NWTPH-Dx
EW-2A-121614	12/16/2014 14:27	580-46788-11	NWTPH-Dx
5-W-15-121614	12/16/2014 14:30	580-46788-12	NWTPH-Dx
GW-4-121614	12/16/2014 15:16	580-46788-13	NWTPH-Dx
5-W-43-121614	12/16/2014 15:25	580-46788-14	NWTPH-Dx
EW-1-121614	12/16/2014 16:15	580-46788-15	NWTPH-Dx
GW-1-121614	12/16/2014 16:18	580-46788-16	NWTPH-Dx
GW-2-121614	12/16/2014 16:52	580-46788-17	NWTPH-Dx
2B-W-4-121714	12/17/2014 09:17	580-46788-18	NWTPH-Dx
2B-W-40-121714	12/17/2014 09:20	580-46788-19	NWTPH-Dx
1B-W-3-121714	12/17/2014 09:30	580-46788-20	NWTPH-Dx
2A-W-40-121714	12/17/2014 11:02	580-46788-21	NWTPH-Dx
2A-W-400-121714	12/17/2014 11:05	580-46788-22	NWTPH-Dx
2A-W-42-121714	12/17/2014 11:15	580-46788-23	NWTPH-Dx
1C-W-8-121714	12/17/2014 12:25	580-46788-24	NWTPH-Dx
2A-W-41-121714	12/17/2014 12:29	580-46788-25	NWTPH-Dx

Sample ID	Sample Date/Time	Lab ID	Analysis
1C-W-7-121714	12/17/2014 14:35	580-46788-27	NWTPH-Dx
1B-W-23-121714	12/17/2014 15:25	580-46788-31	NWTPH-Dx
GW-3-121714	12/17/2014 16:30	580-46788-33	NWTPH-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 Sayler.

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 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 32 water sample locations. This round of sampling includes quarterly locations.

All required samples were collected 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. These methods are approved EPA methods and therefore meet comparability requirements.

Precision, accuracy and completeness: Precision and accuracy measurements were within laboratory control limits. No data were rejected.

A data completeness of 100 % was calculated based on 25 of 25 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. Laboratory duplicates may have been analyzed but not reported because non-project samples were utilized. Data qualifiers are not required due to a lack of reported 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 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.

Surrogate recoveries: Laboratory control limits were 50-150%. Surrogate recoveries were within limits.

LCS recoveries: Laboratory control limits ranged from 59-120% to 71-140%. LCS recoveries were within limits.

LCS/LCSD RPDs: The laboratory control limit was <27%. 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%.

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 other qualifiers were added based on a review of the laboratory narratives.

Diesel and oil range petroleum hydrocarbon data are acceptable for use as reported.

4.0 Abbreviations and Definitions

DV Qualifier	Definition
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.

Abbreviation	Definition
DV	Data Validation
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
MS	Matrix spike
MSD	Matrix spike duplicate

Abbreviation	Definition
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.

APPENDIX C
NWTPH-DX MONITORING WELL TREND PLOTS

2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

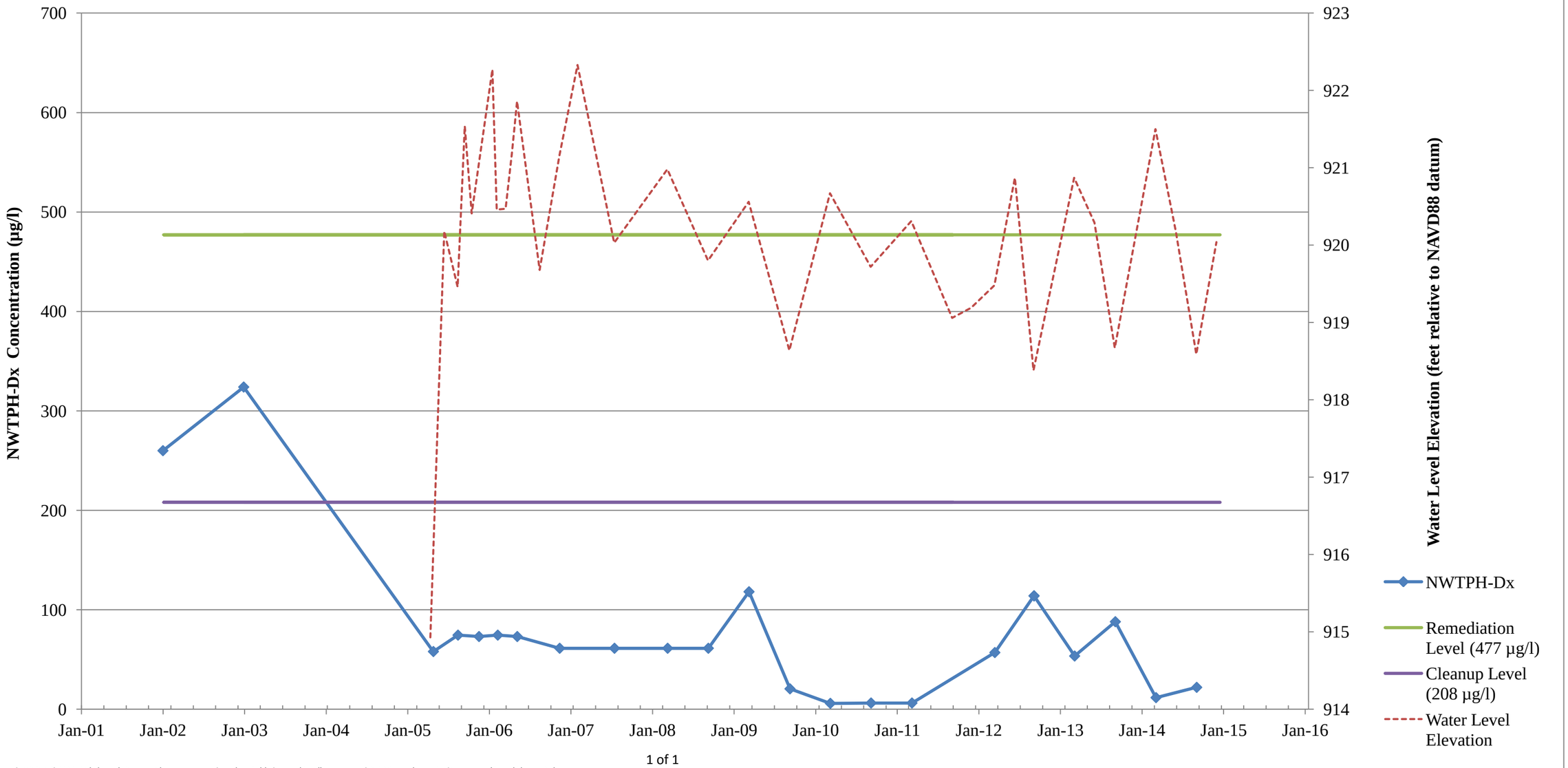
APPENDIX C

SITE-WIDE LOCATIONS

2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1A-W-4



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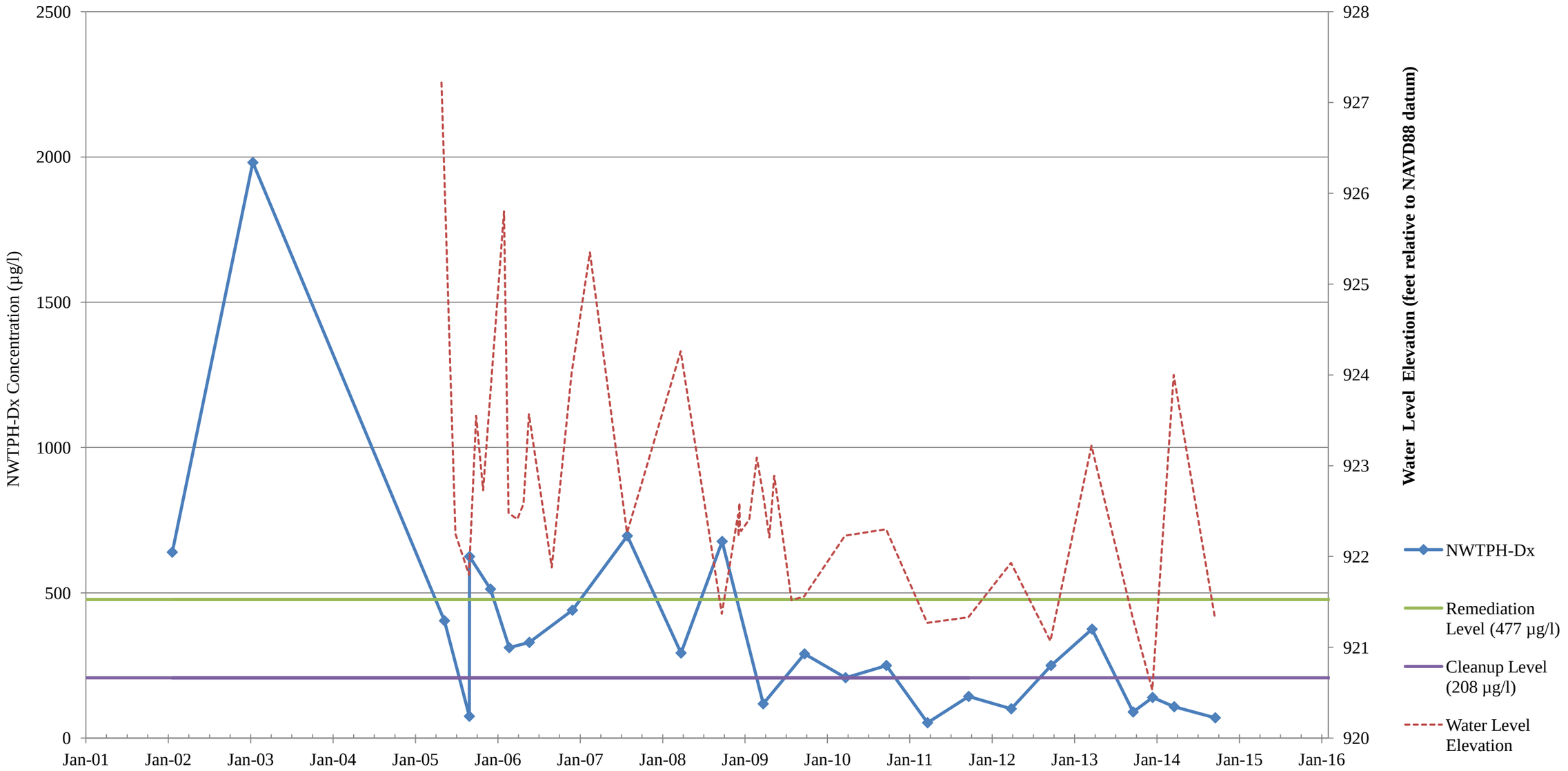
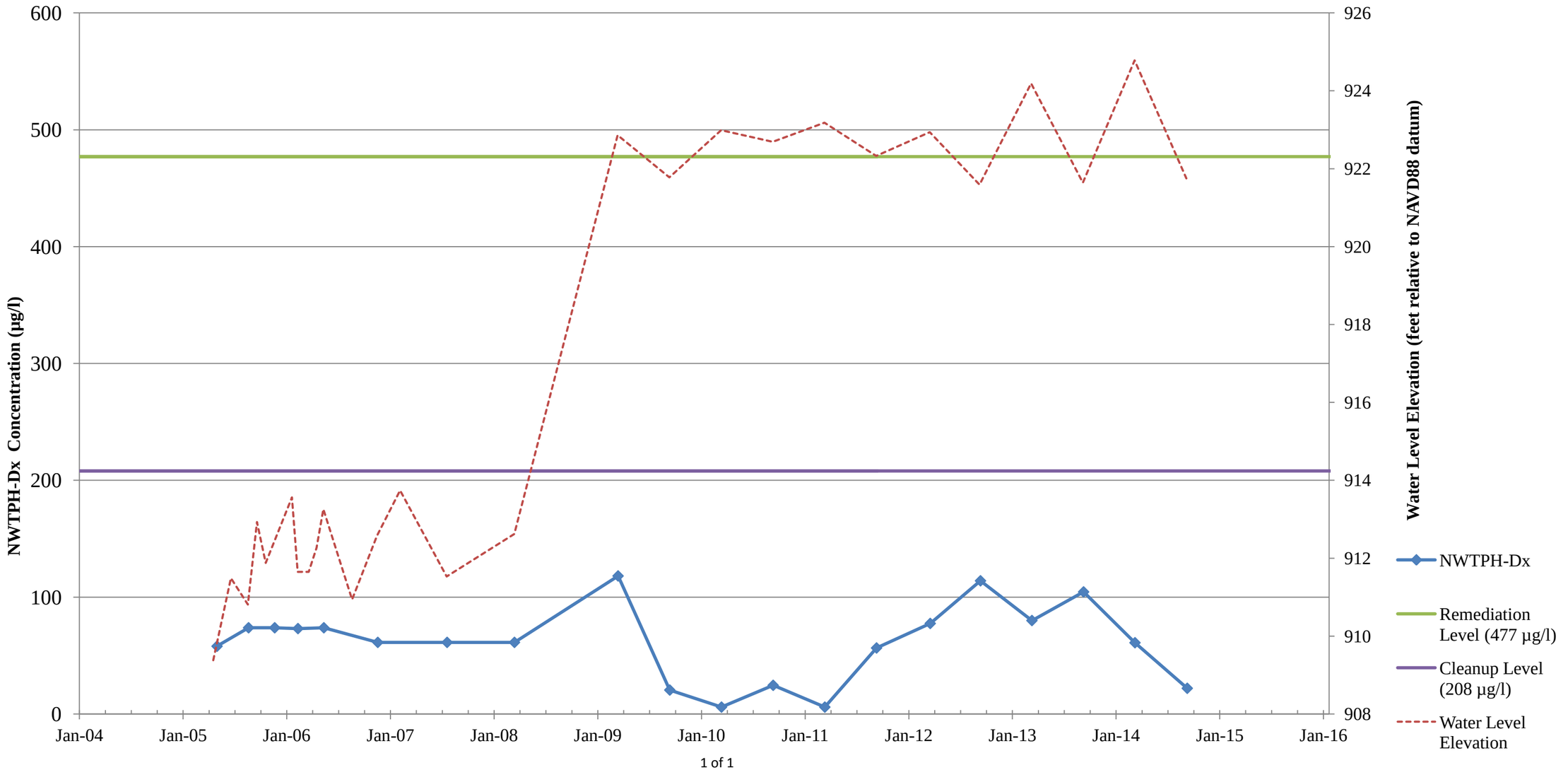
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1B-W-2



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1C-W-3



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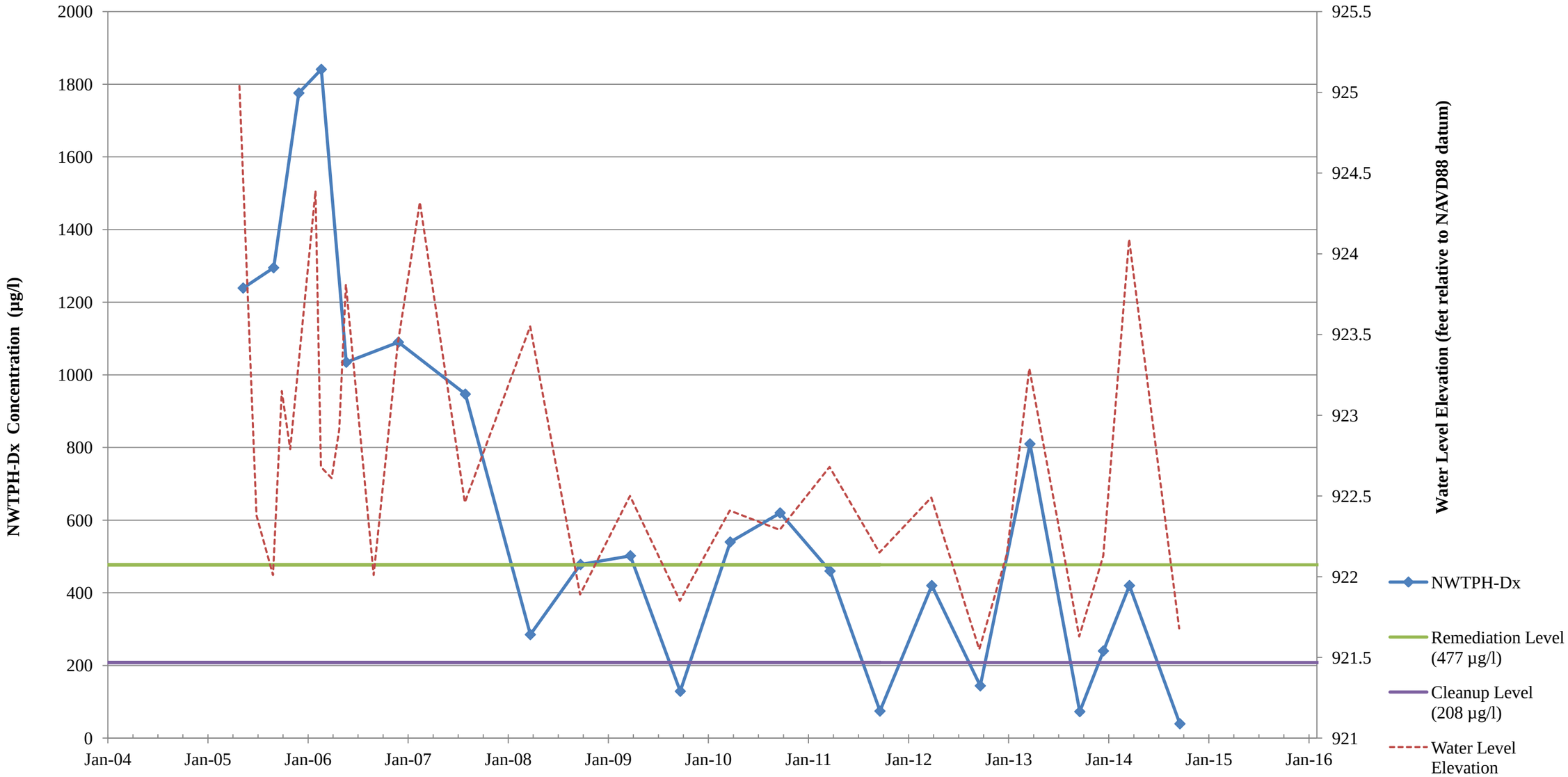
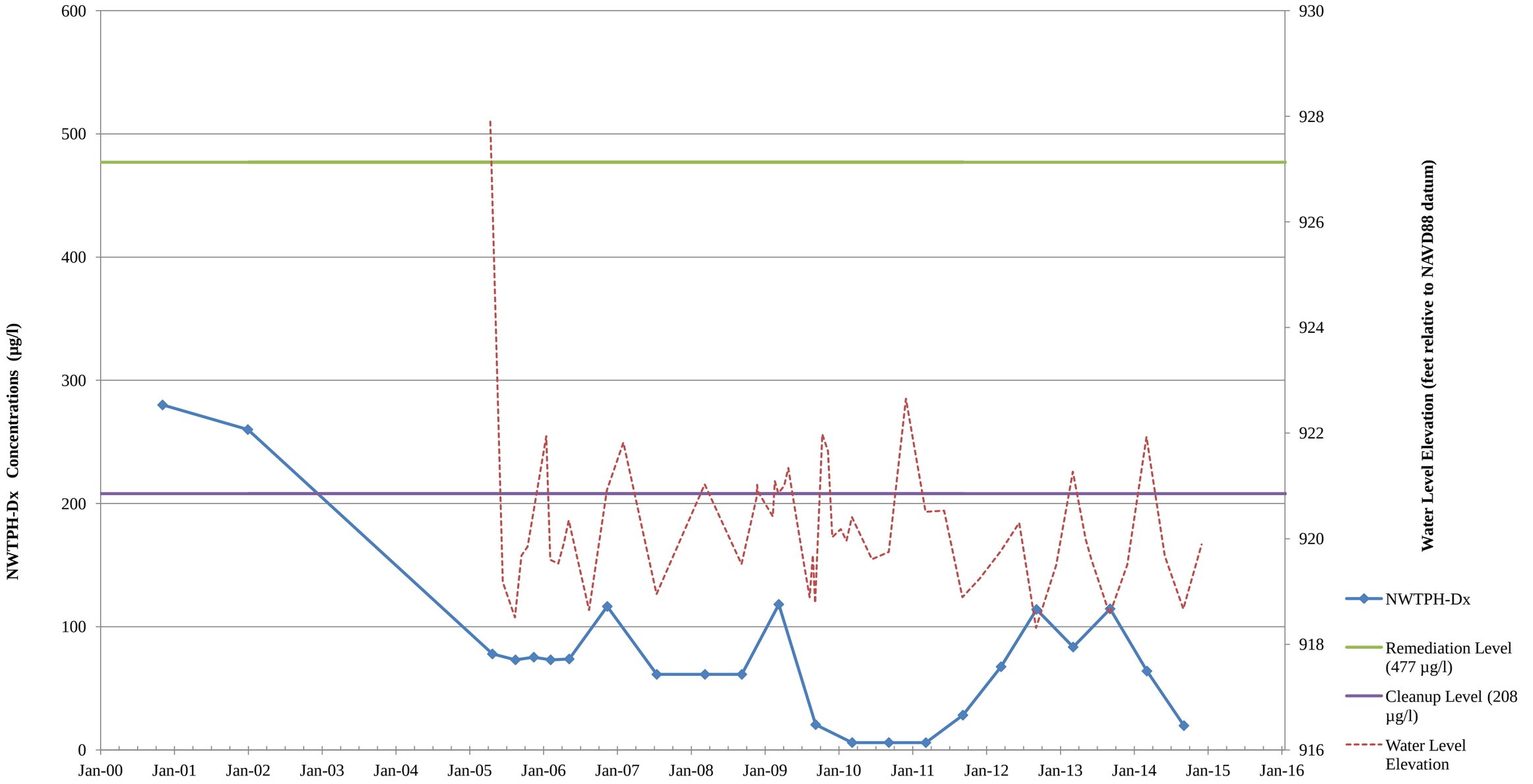
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1C-W-4



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
MW-16



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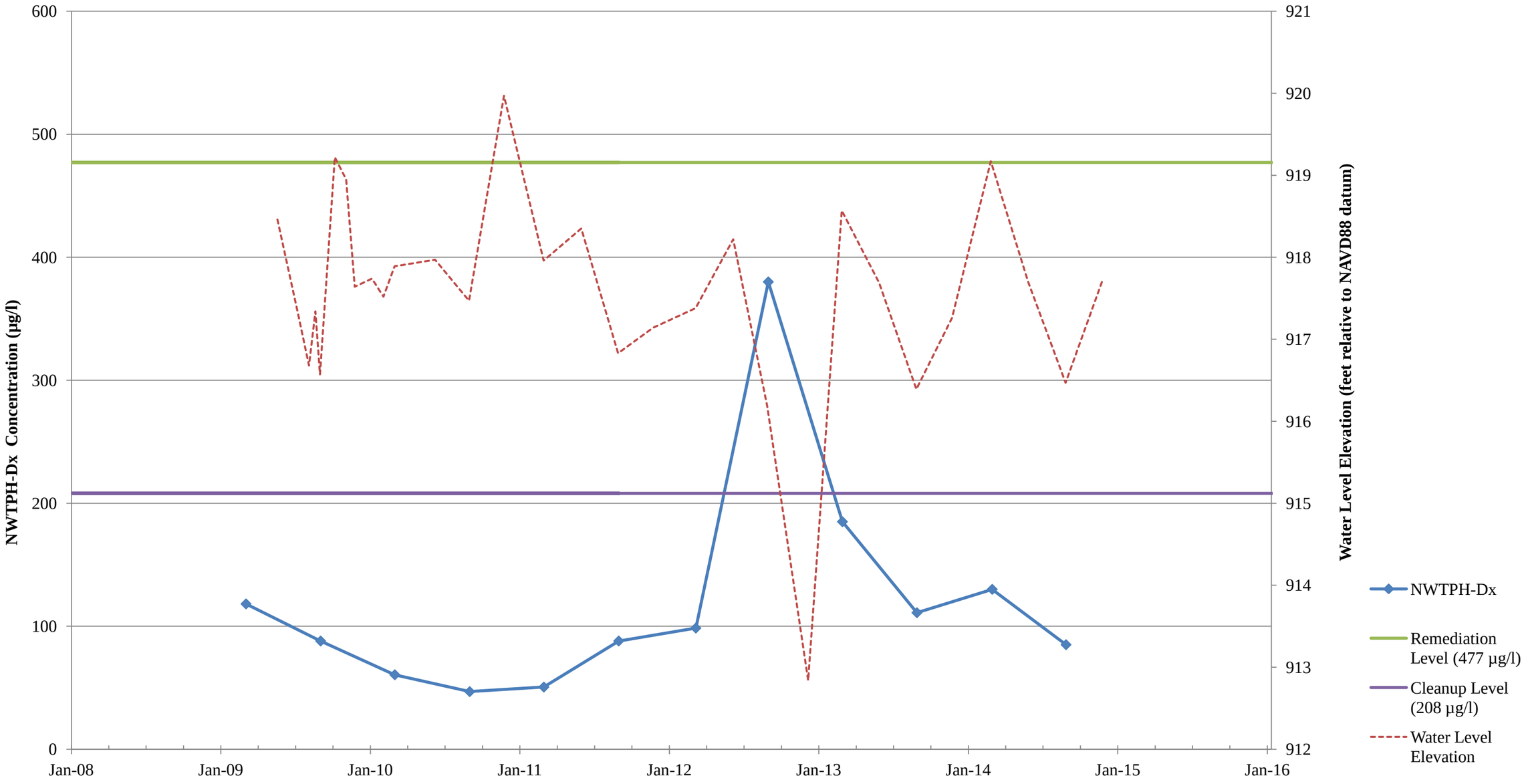
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
MW-38R



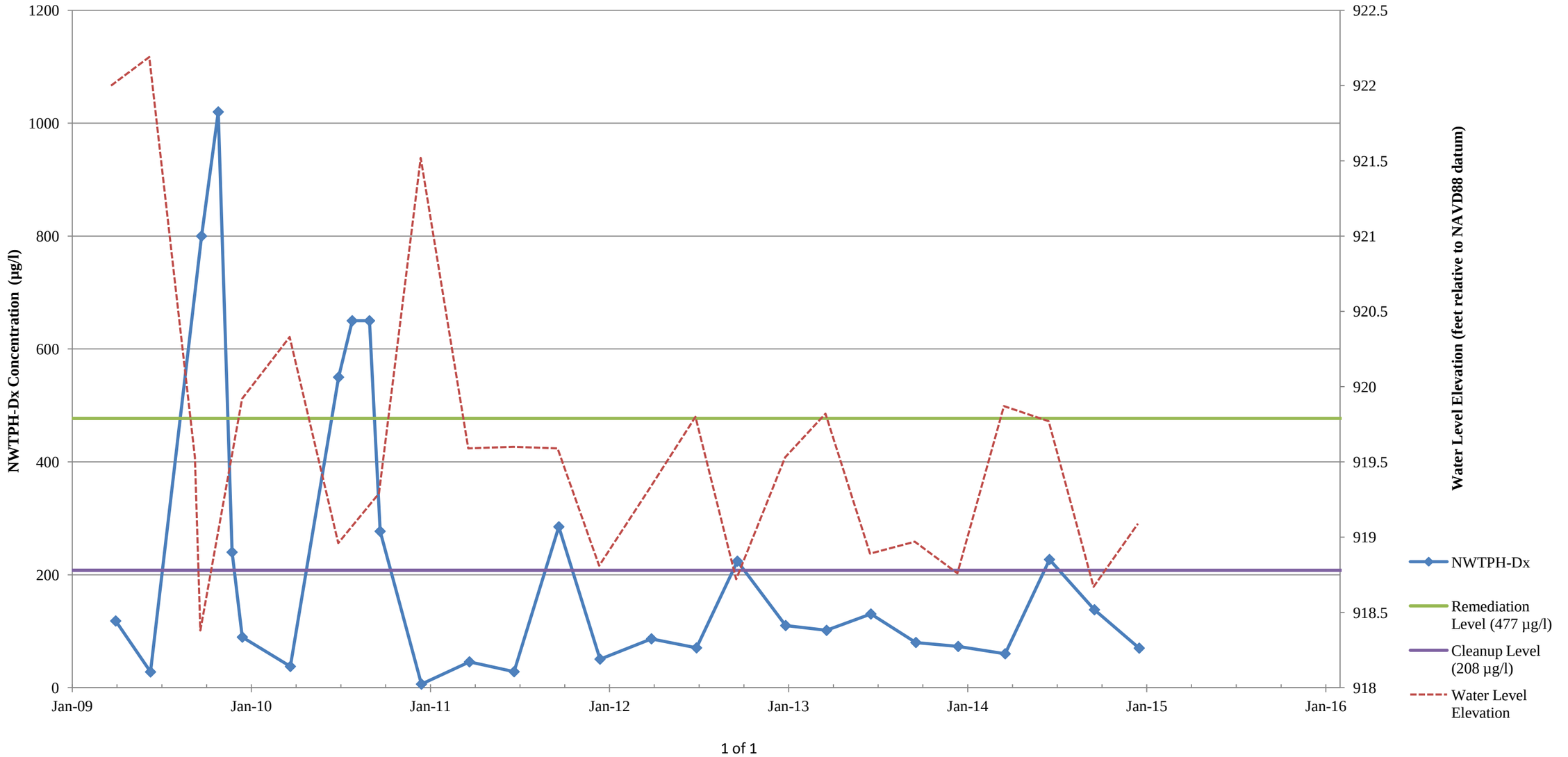
APPENDIX C

DOWN-GRADIENT OF HCC

2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1B-W-23



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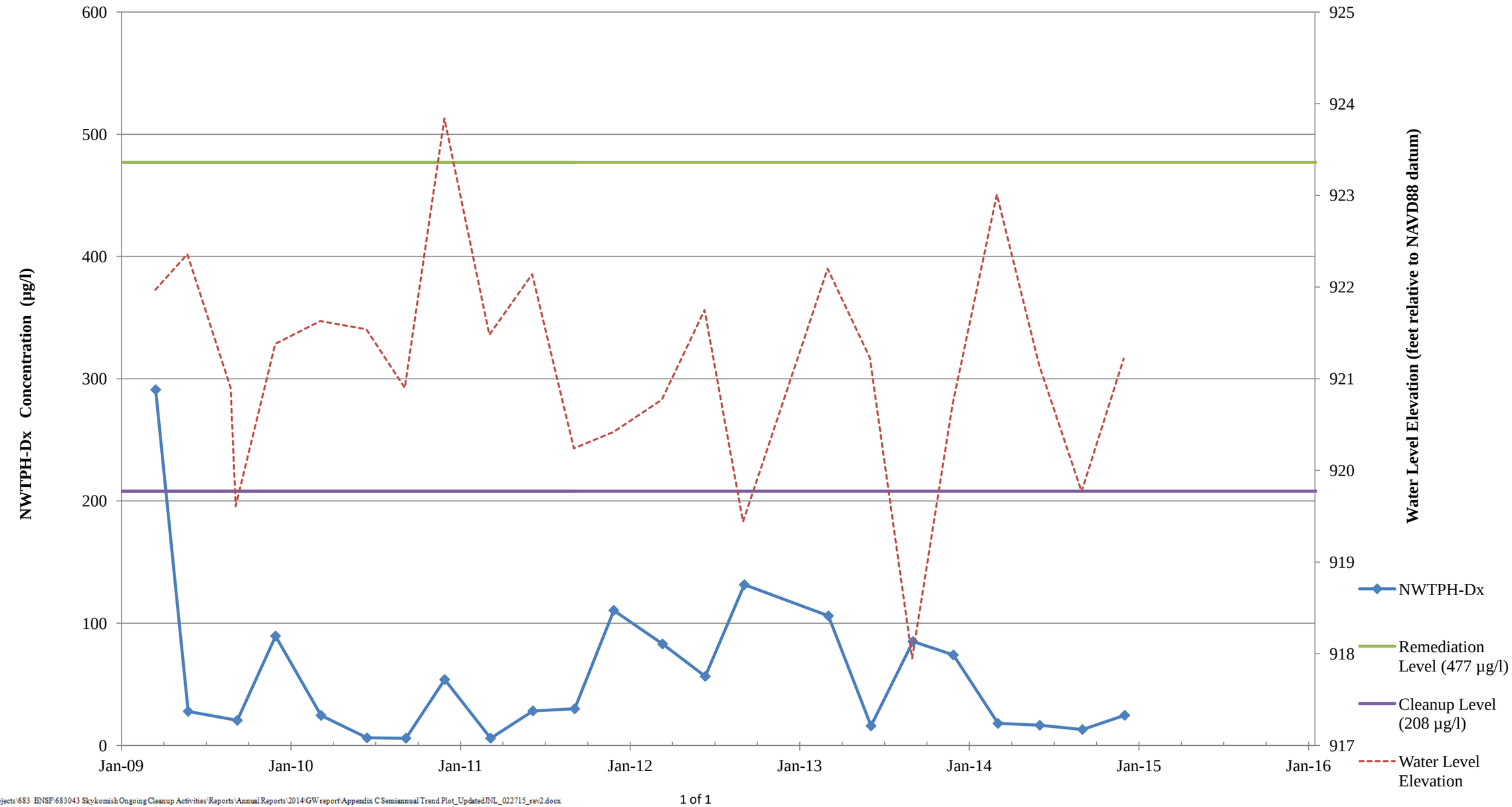
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
2A-W-40



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BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
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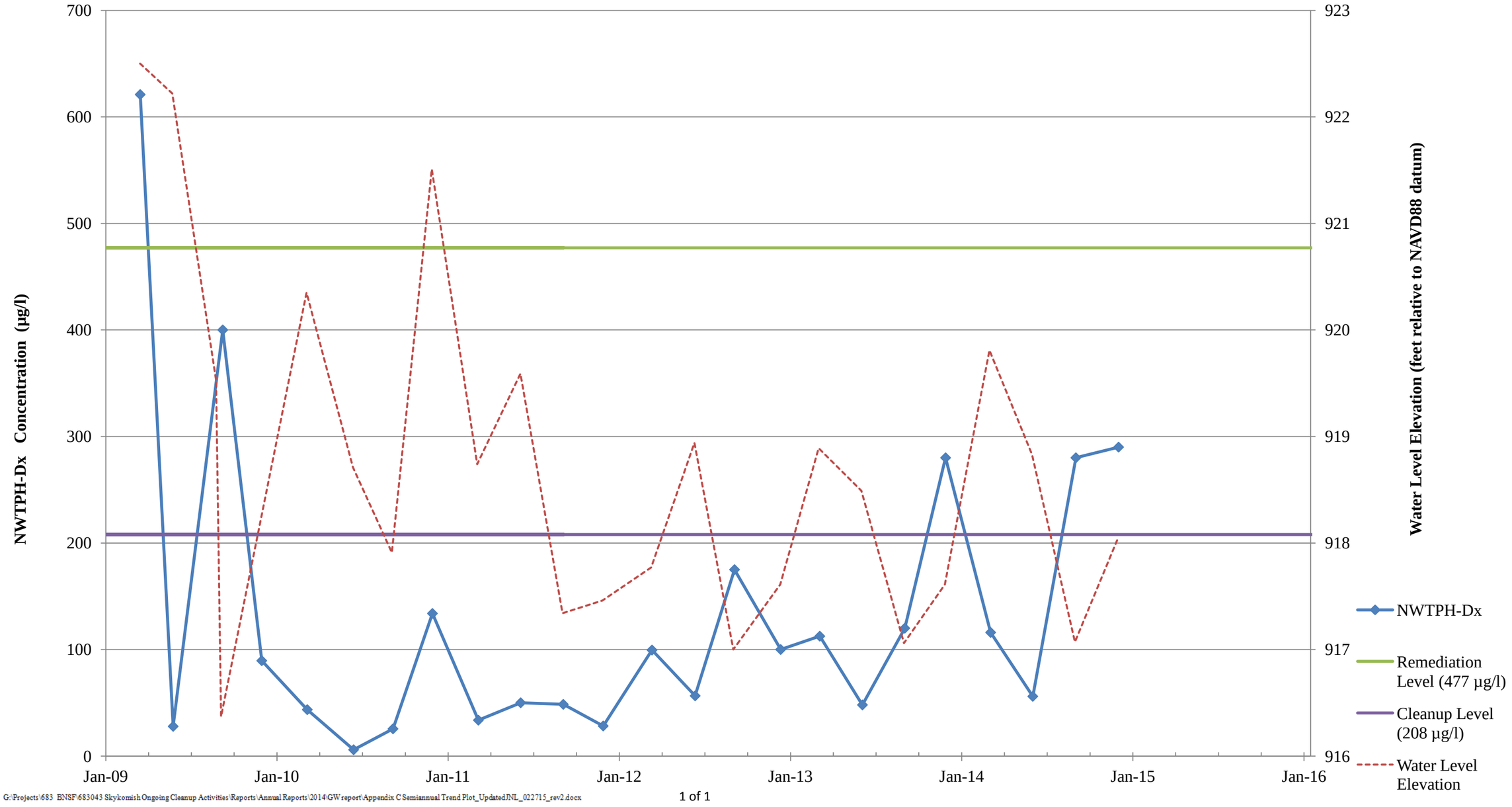

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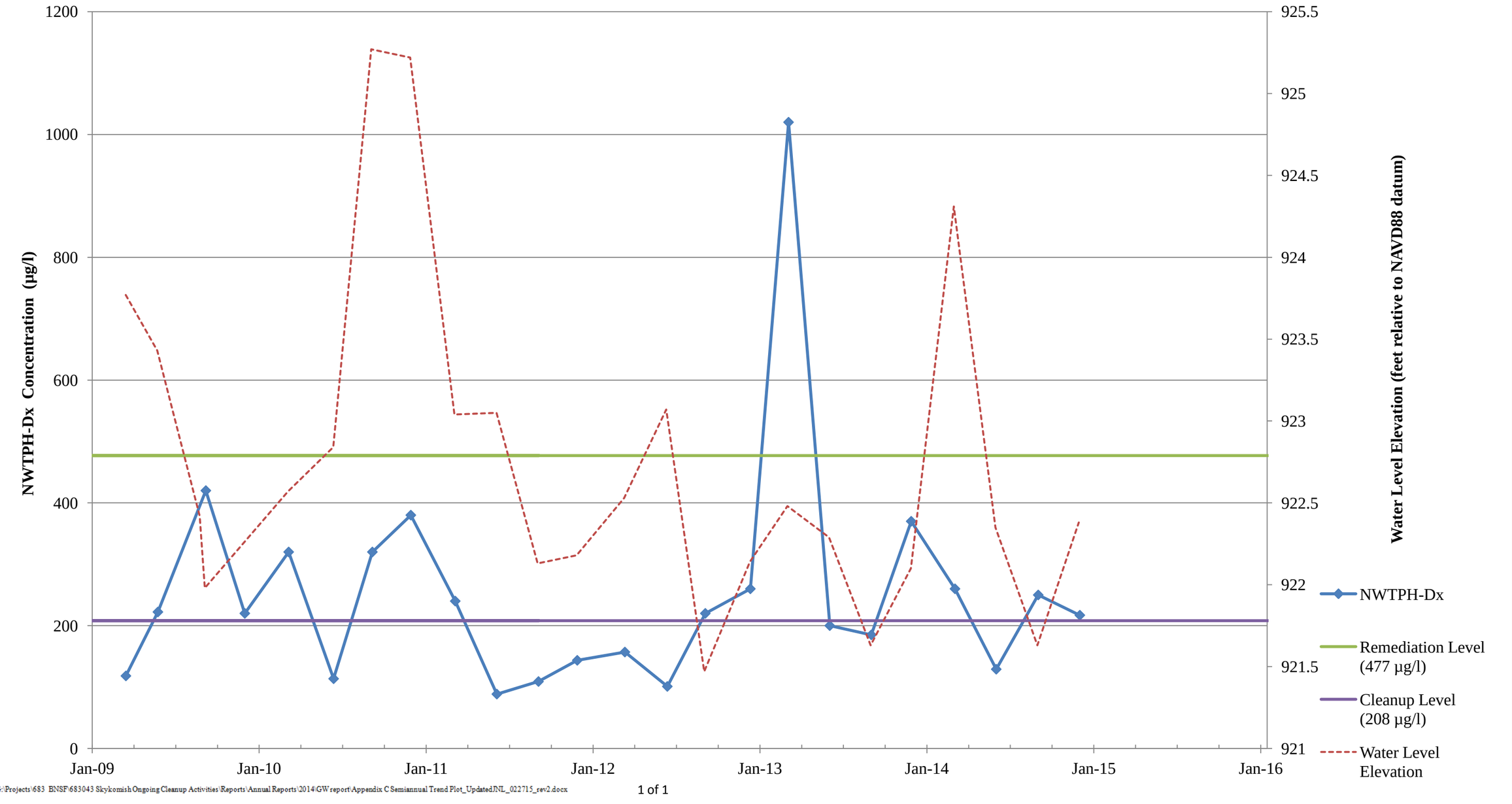
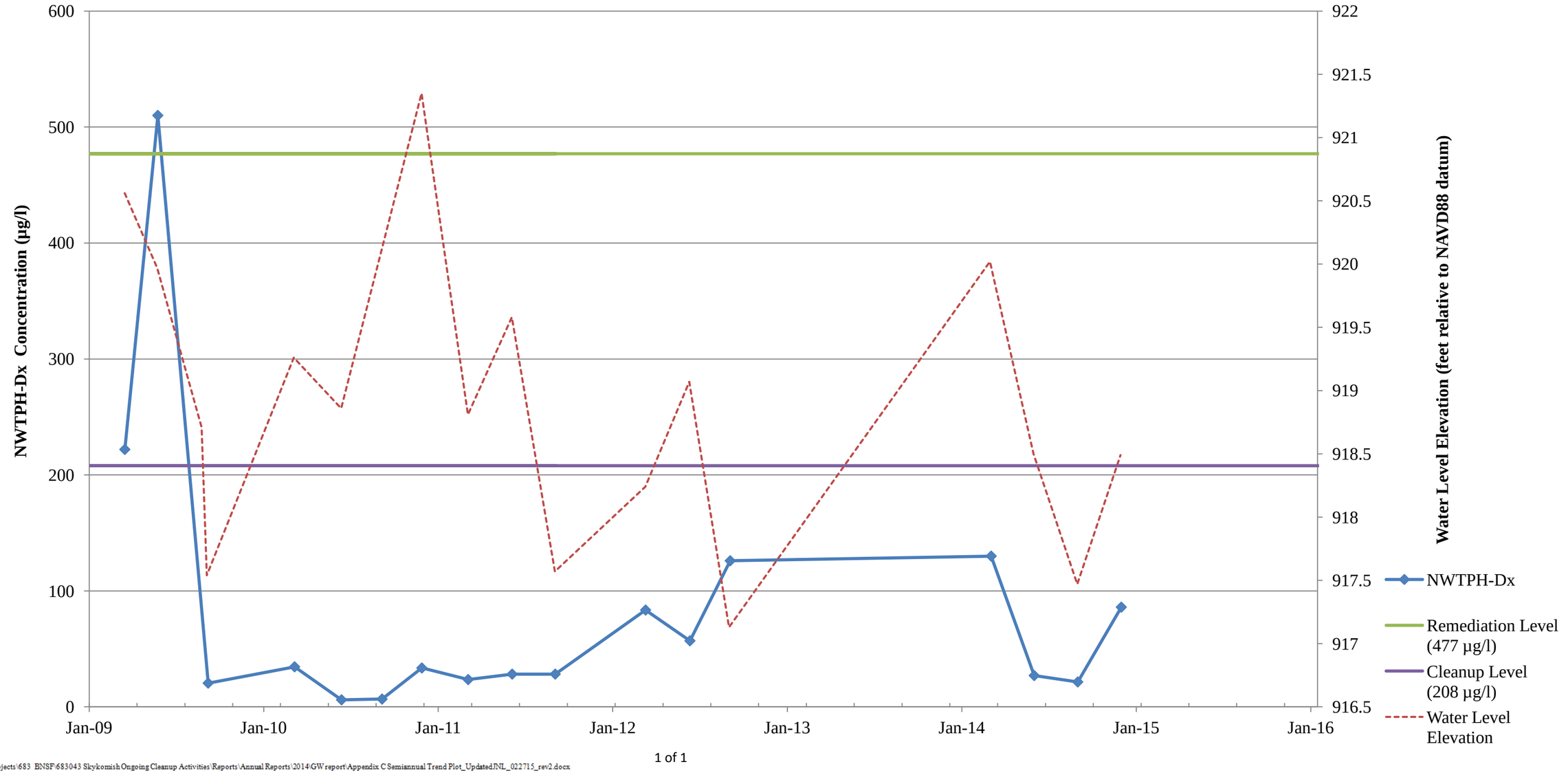
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
2A-W-42



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-43



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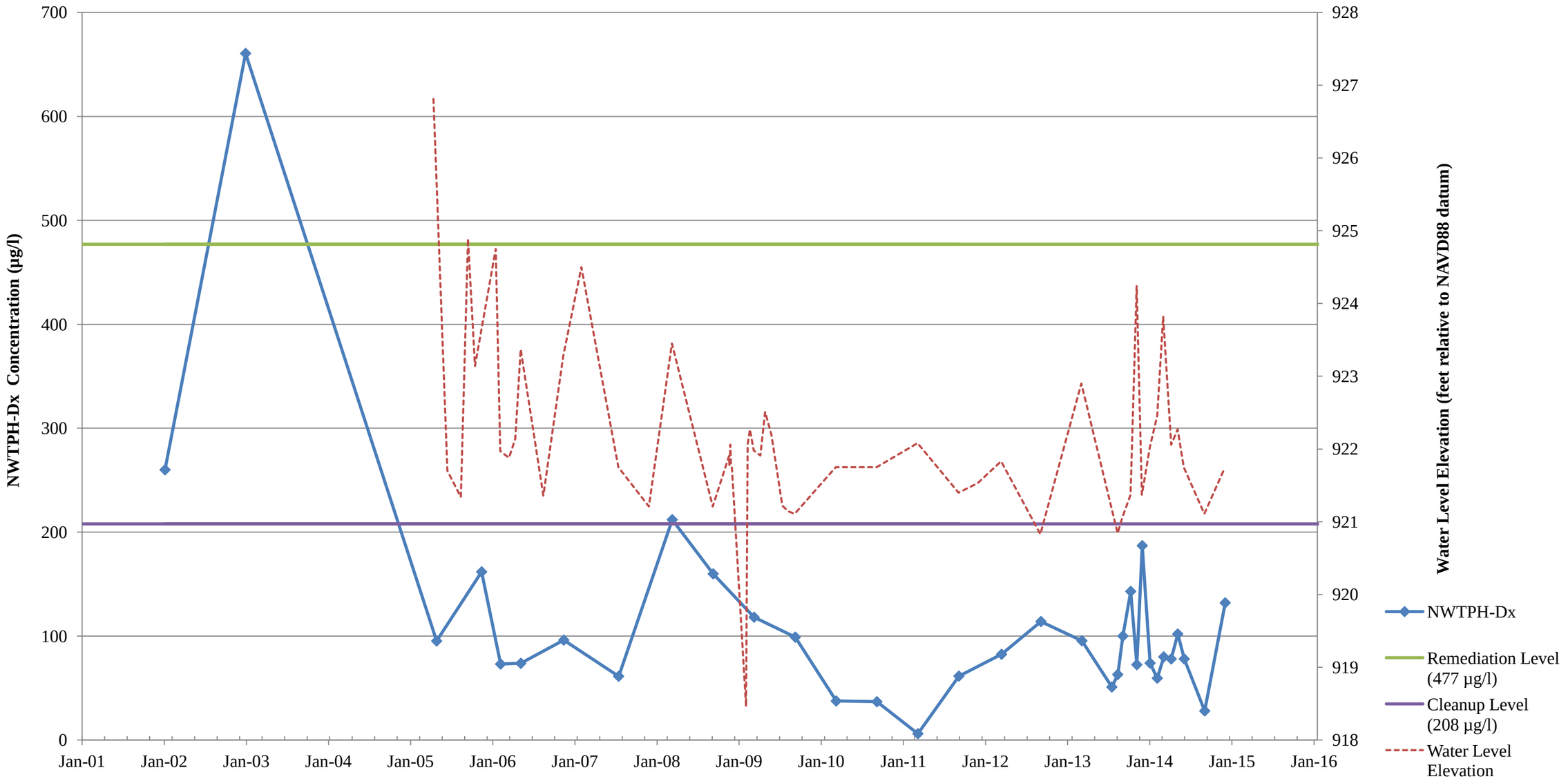
APPENDIX C

AIR SPARGING SYSTEM

2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1B-W-3



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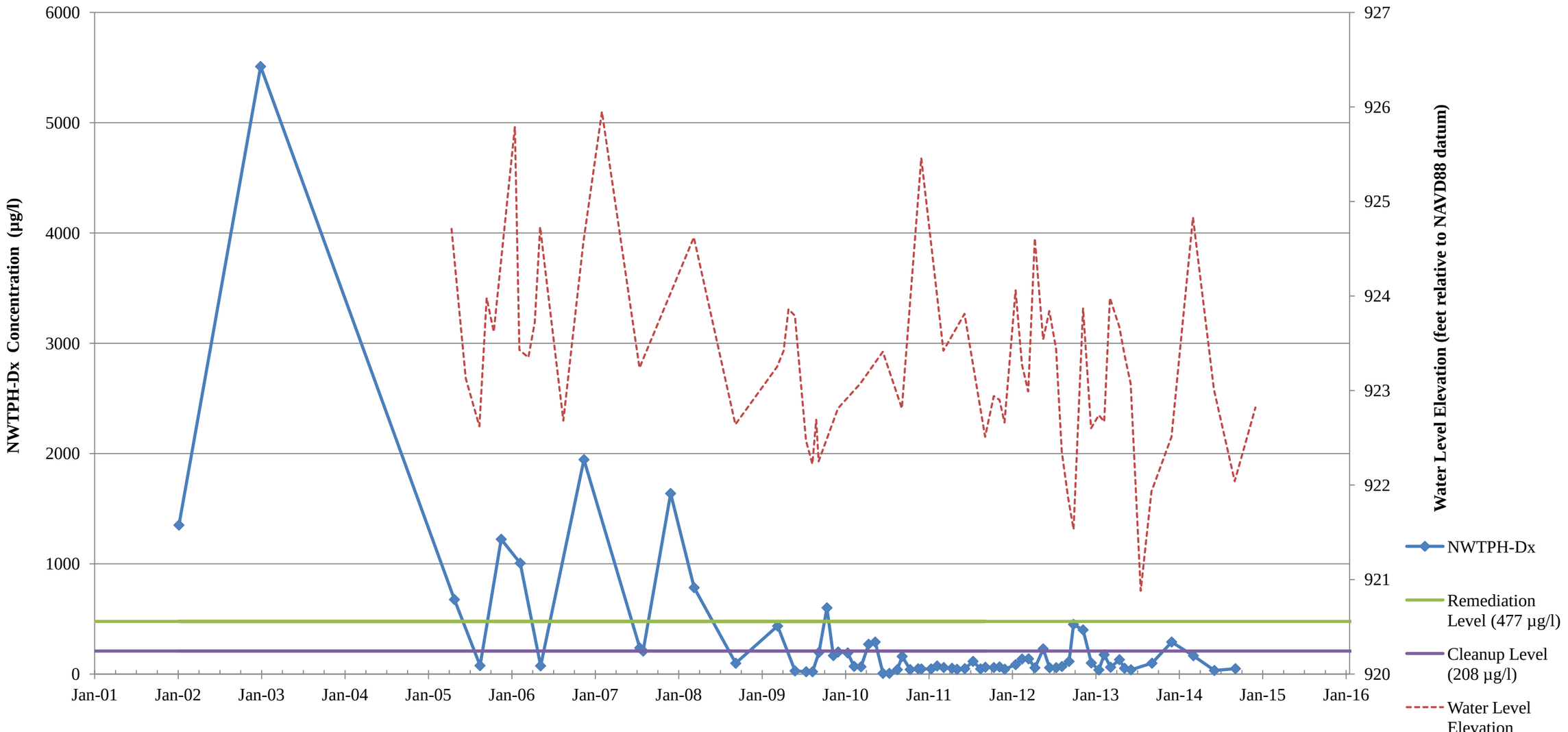
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1C-W-1



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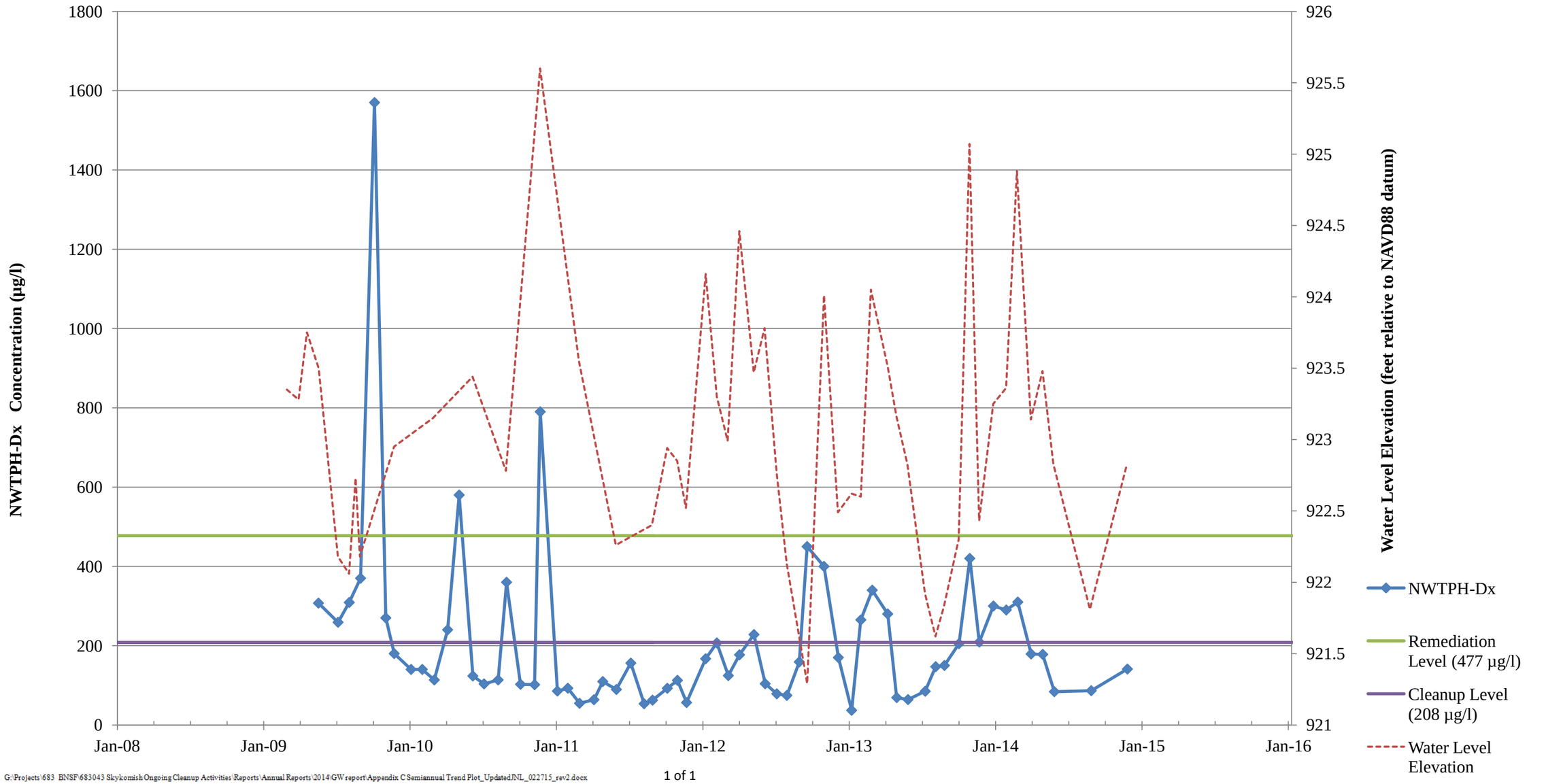
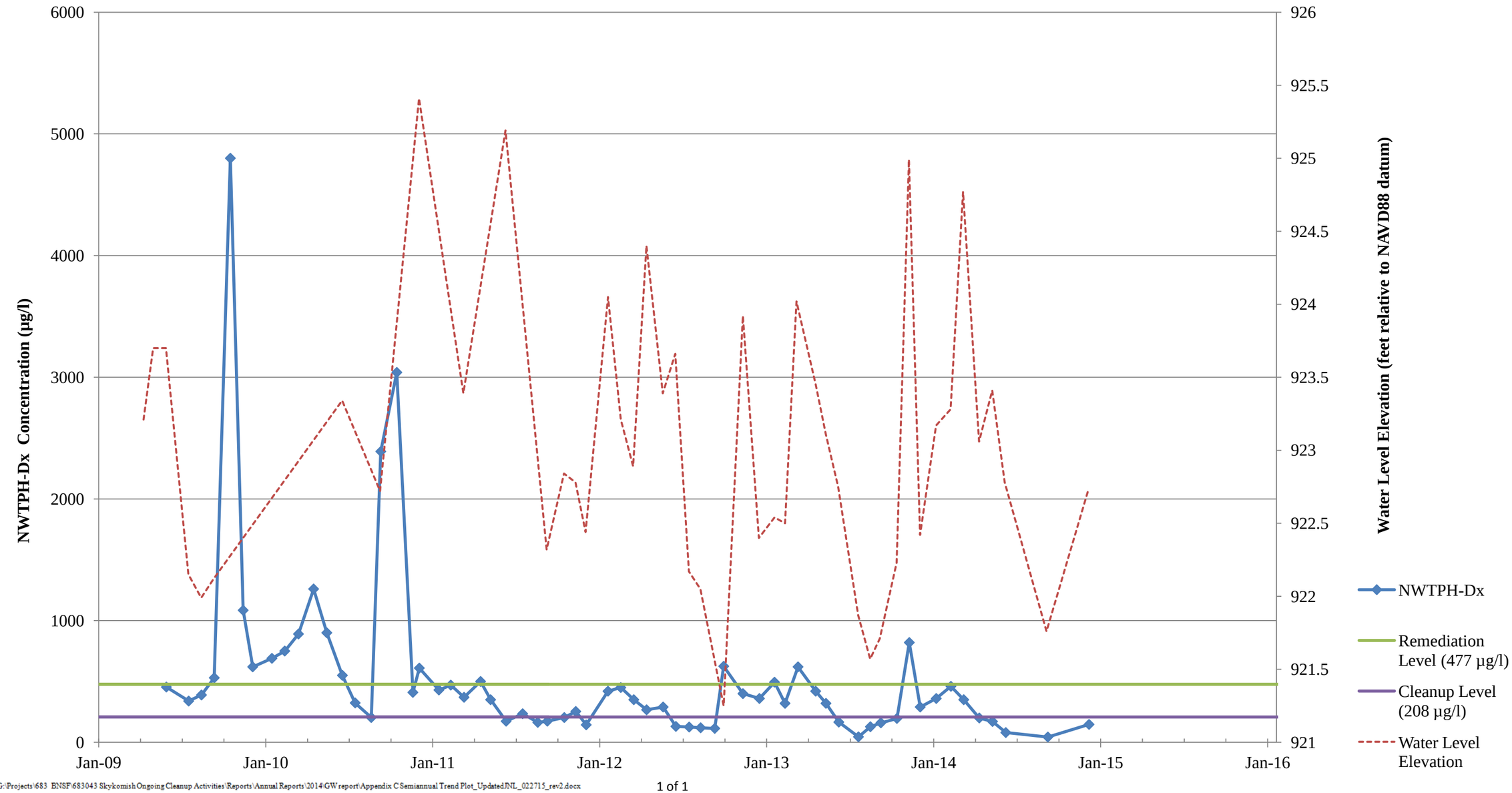
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1C-W-7



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1C-W-8



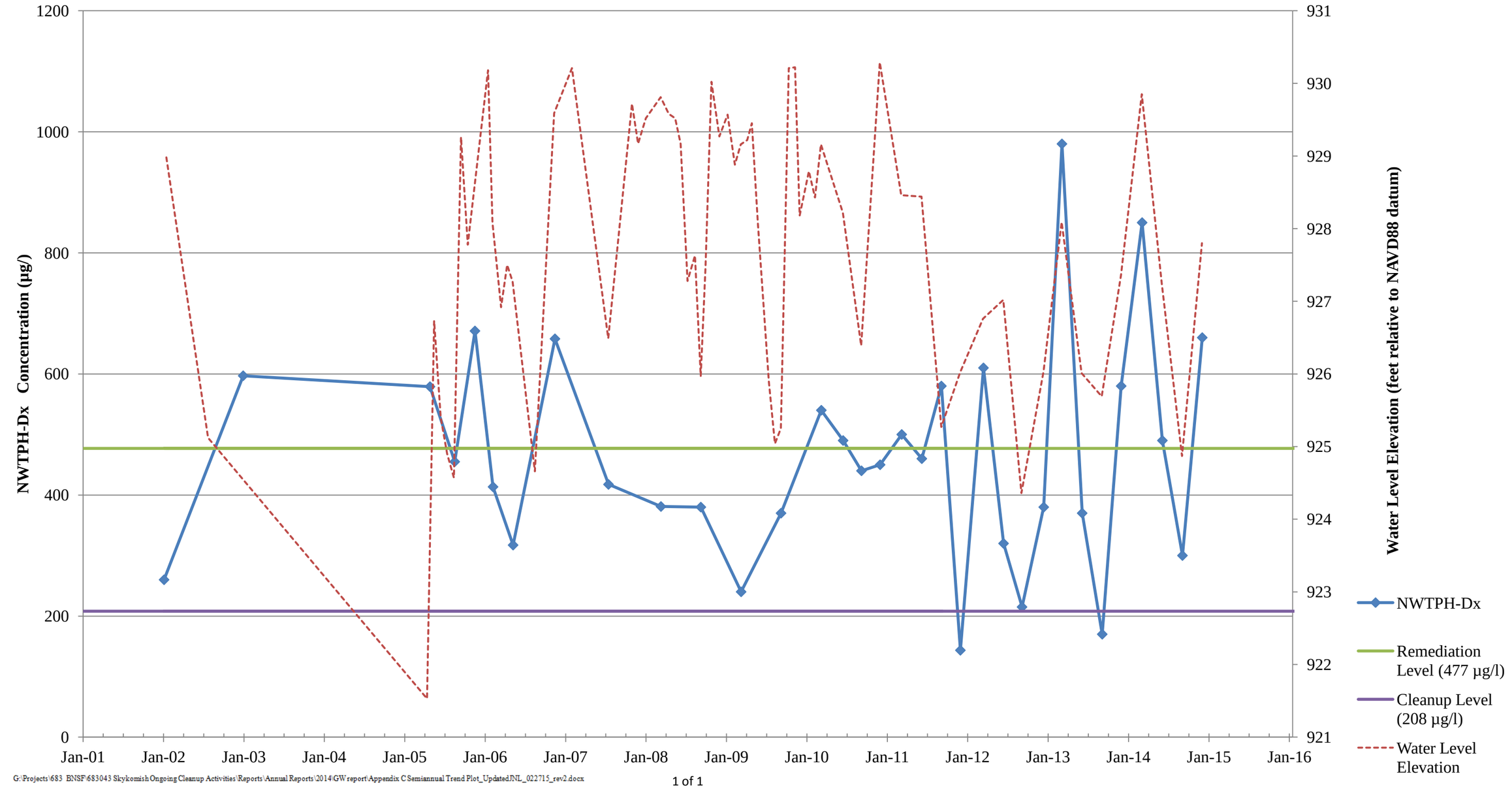
APPENDIX C

FMCZ-EW AND SURROUNDING AREAS

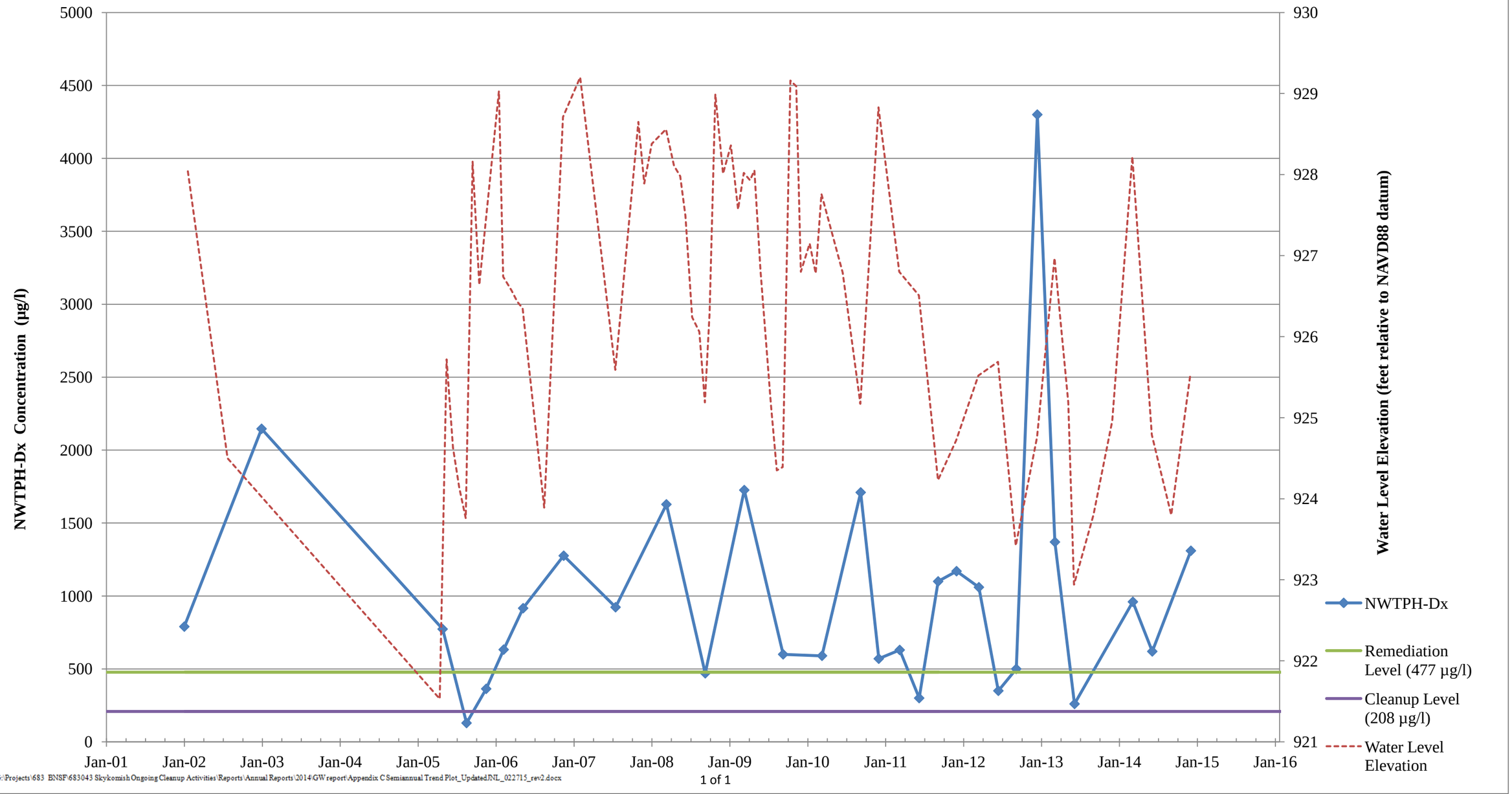
2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

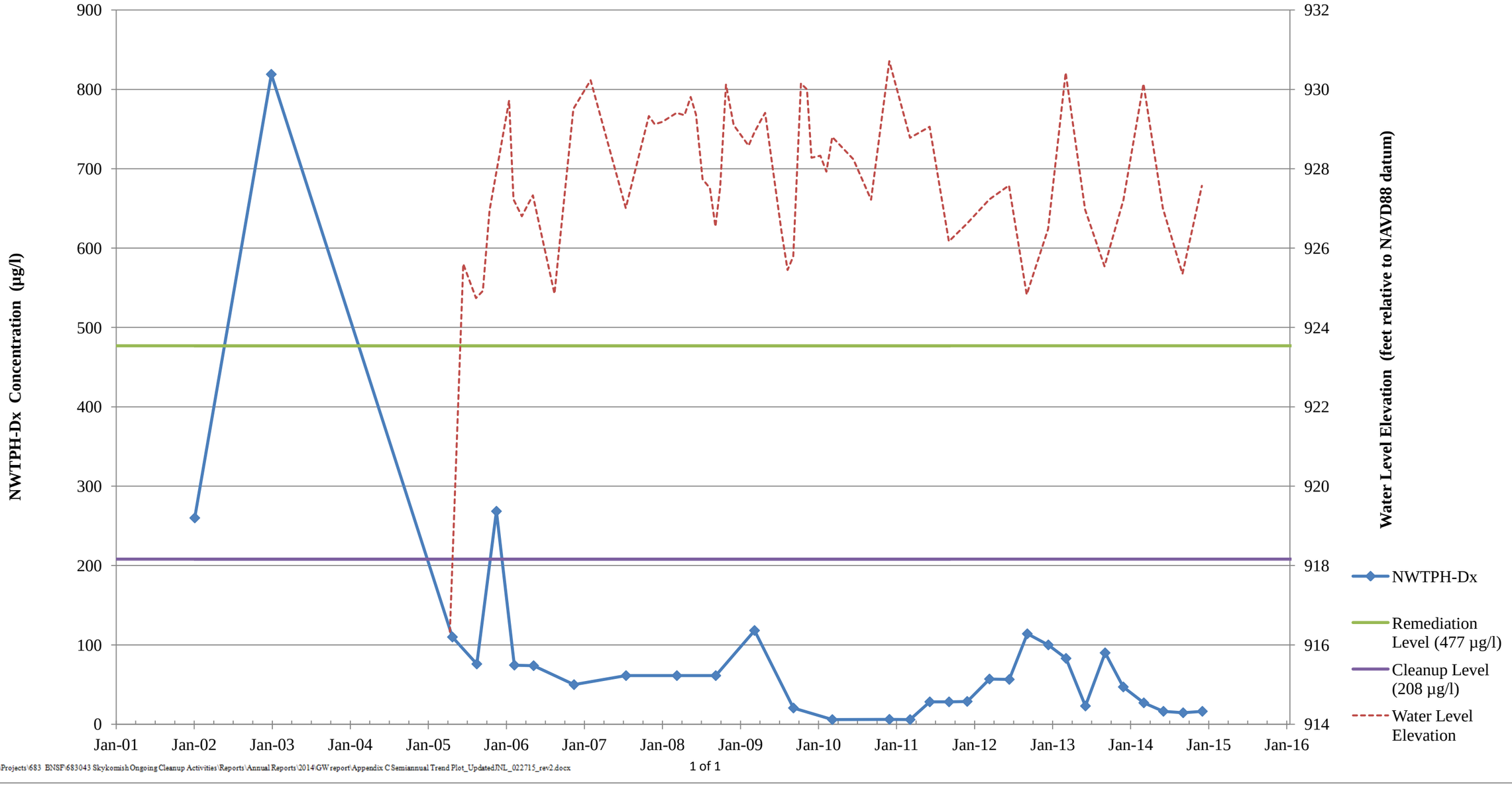
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
2A-W-10



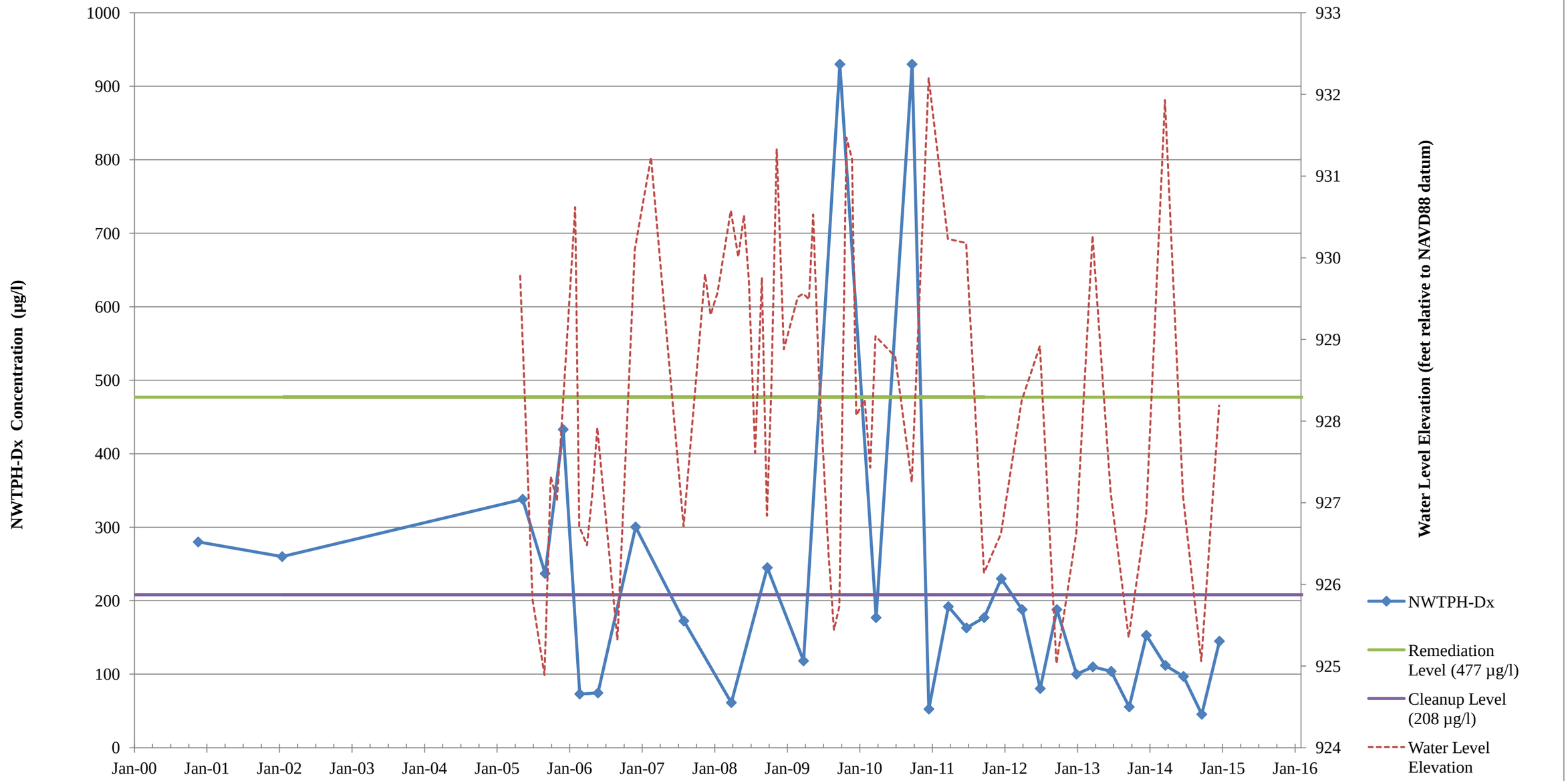
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
2A-W-9



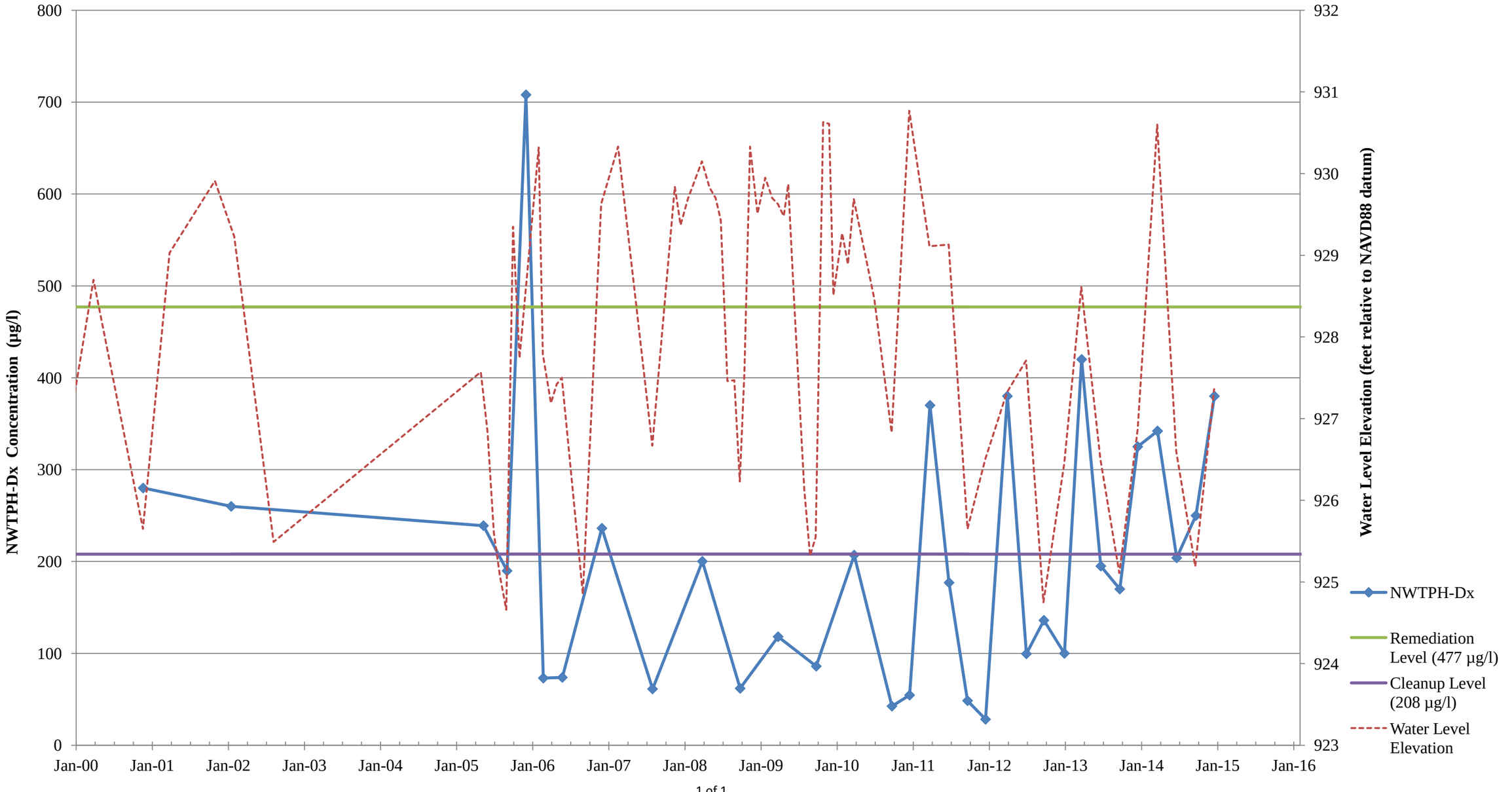
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
2B-W-4



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
MW-3



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
MW-4



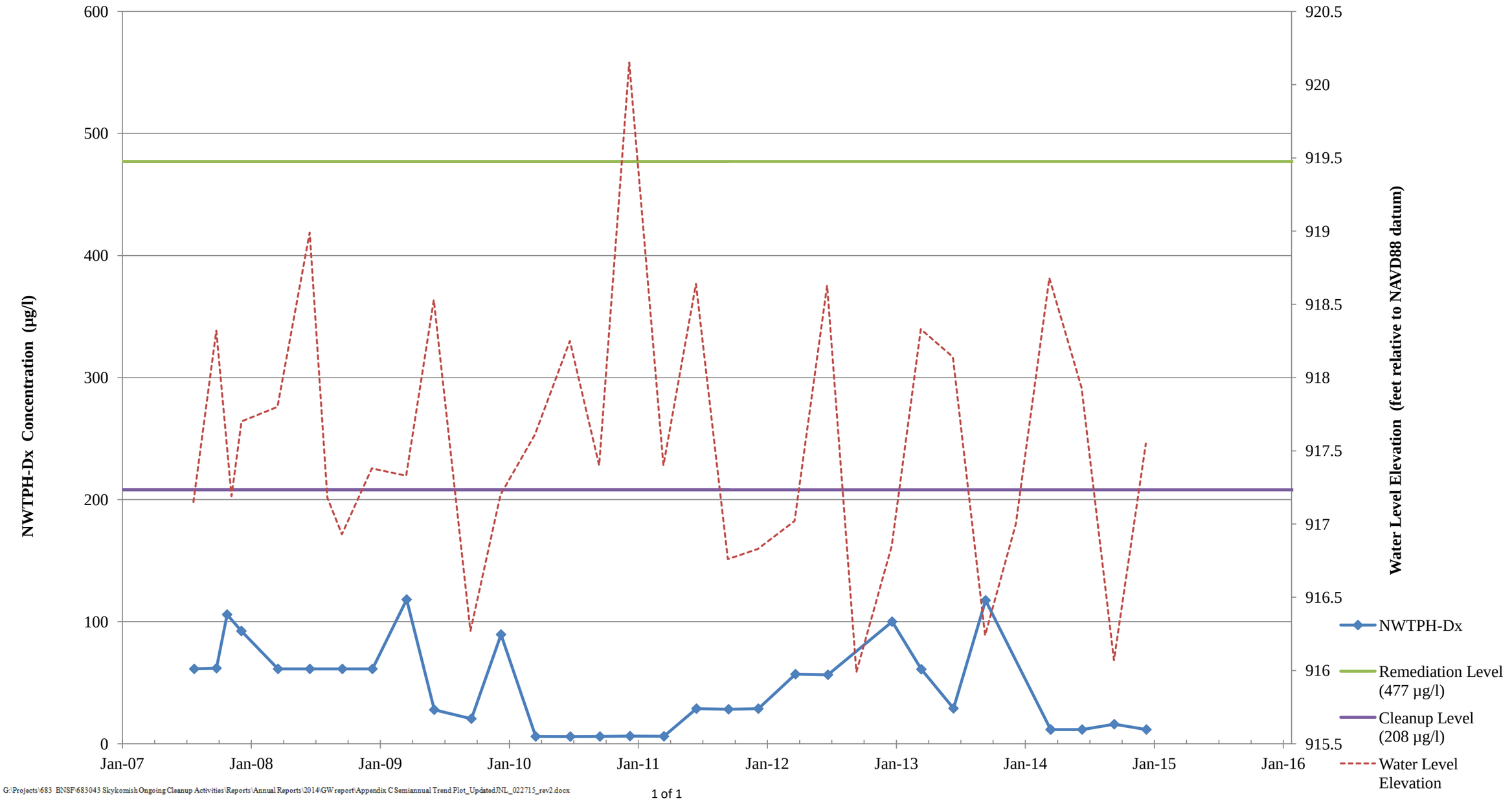
APPENDIX C

LEVEE ZONE

2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-14



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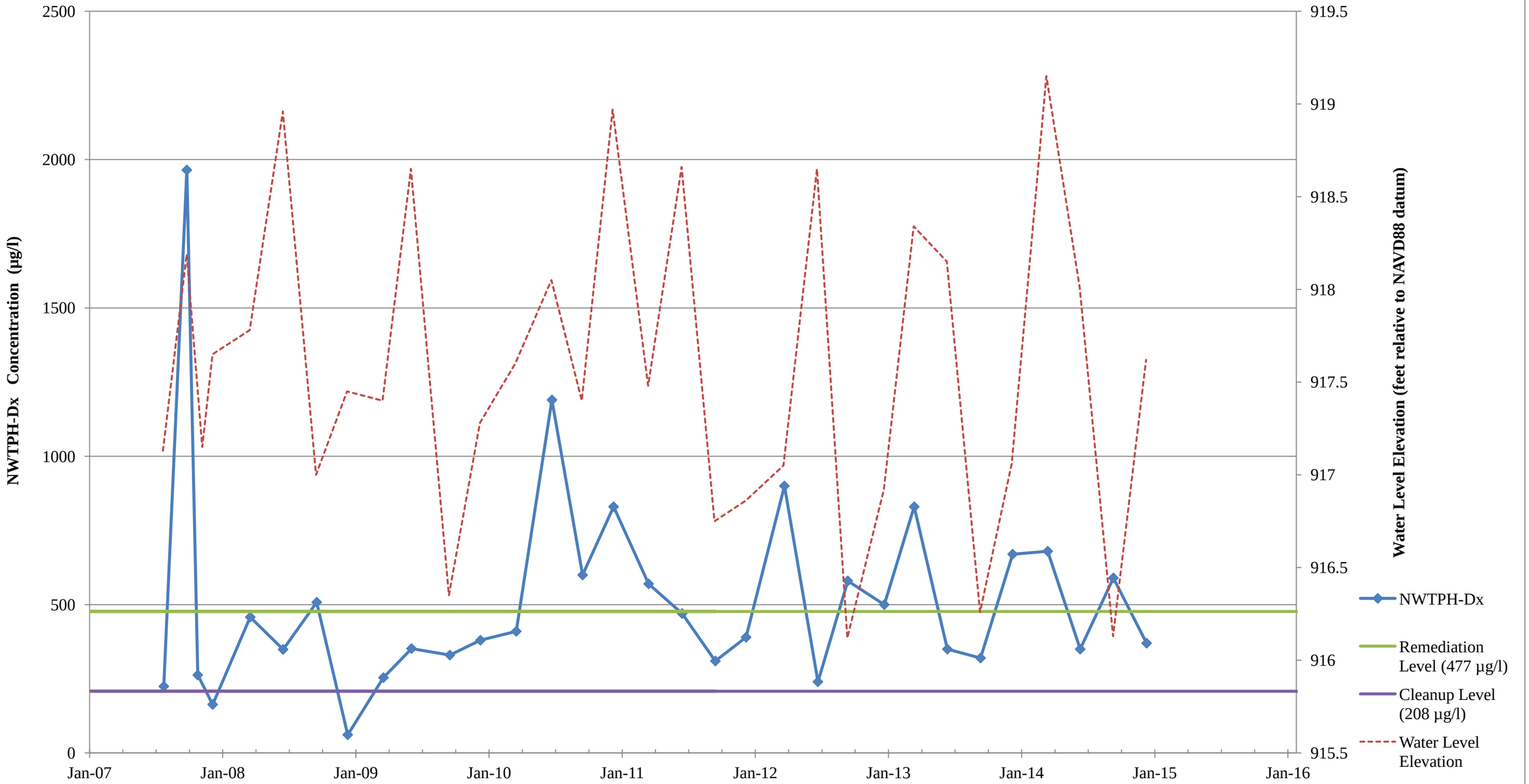
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-15



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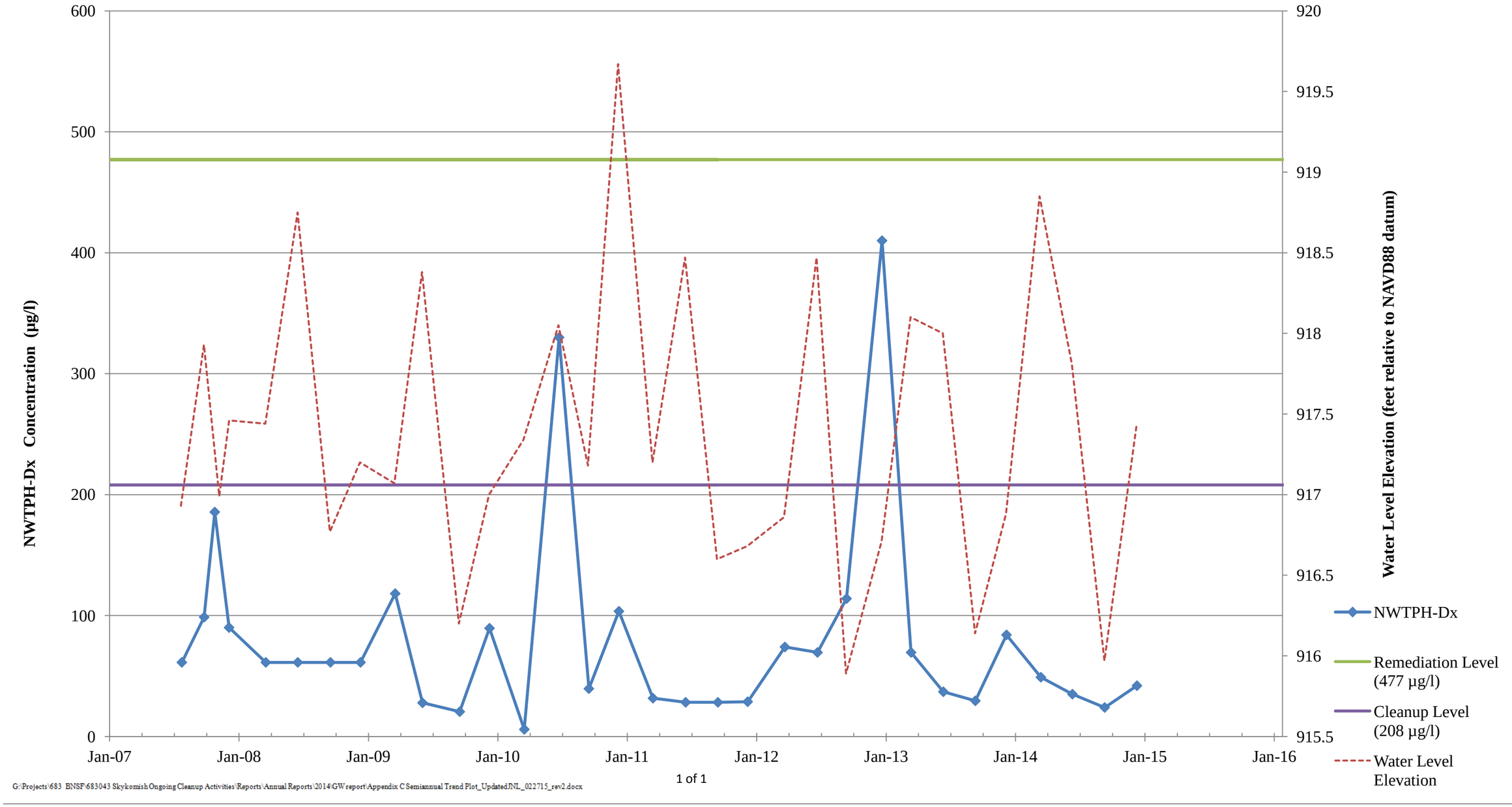
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-16



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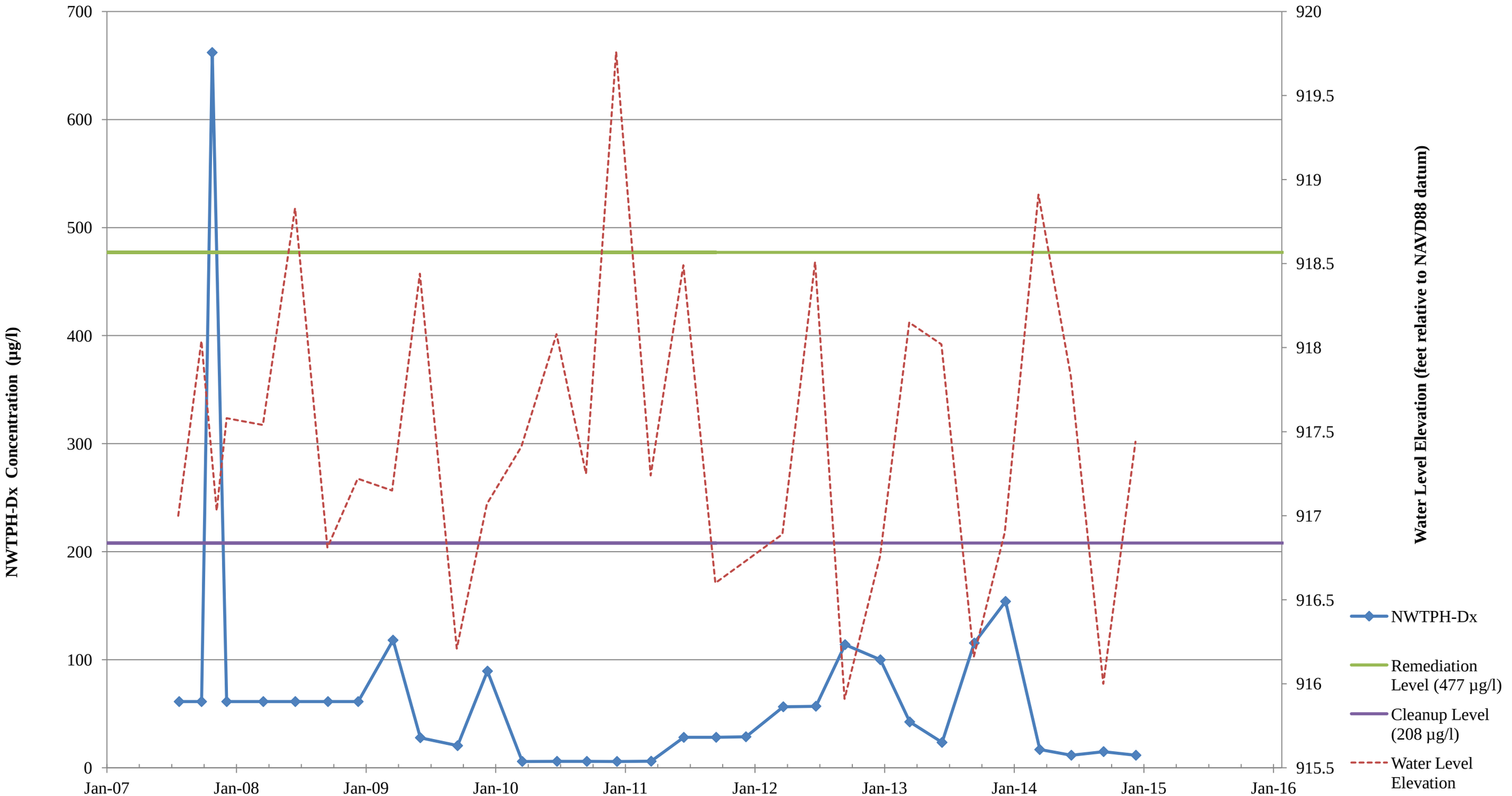
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-17



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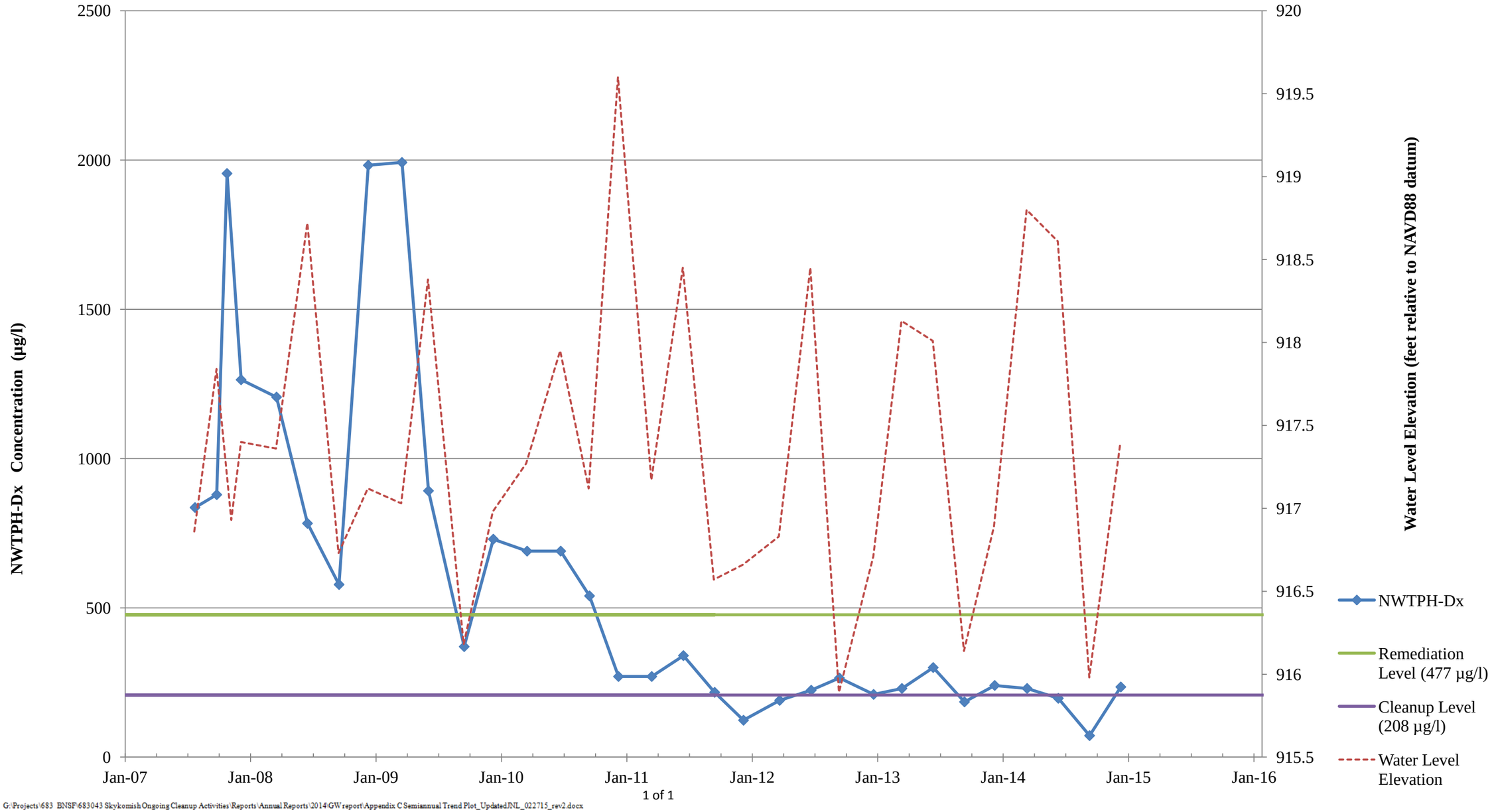
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-18



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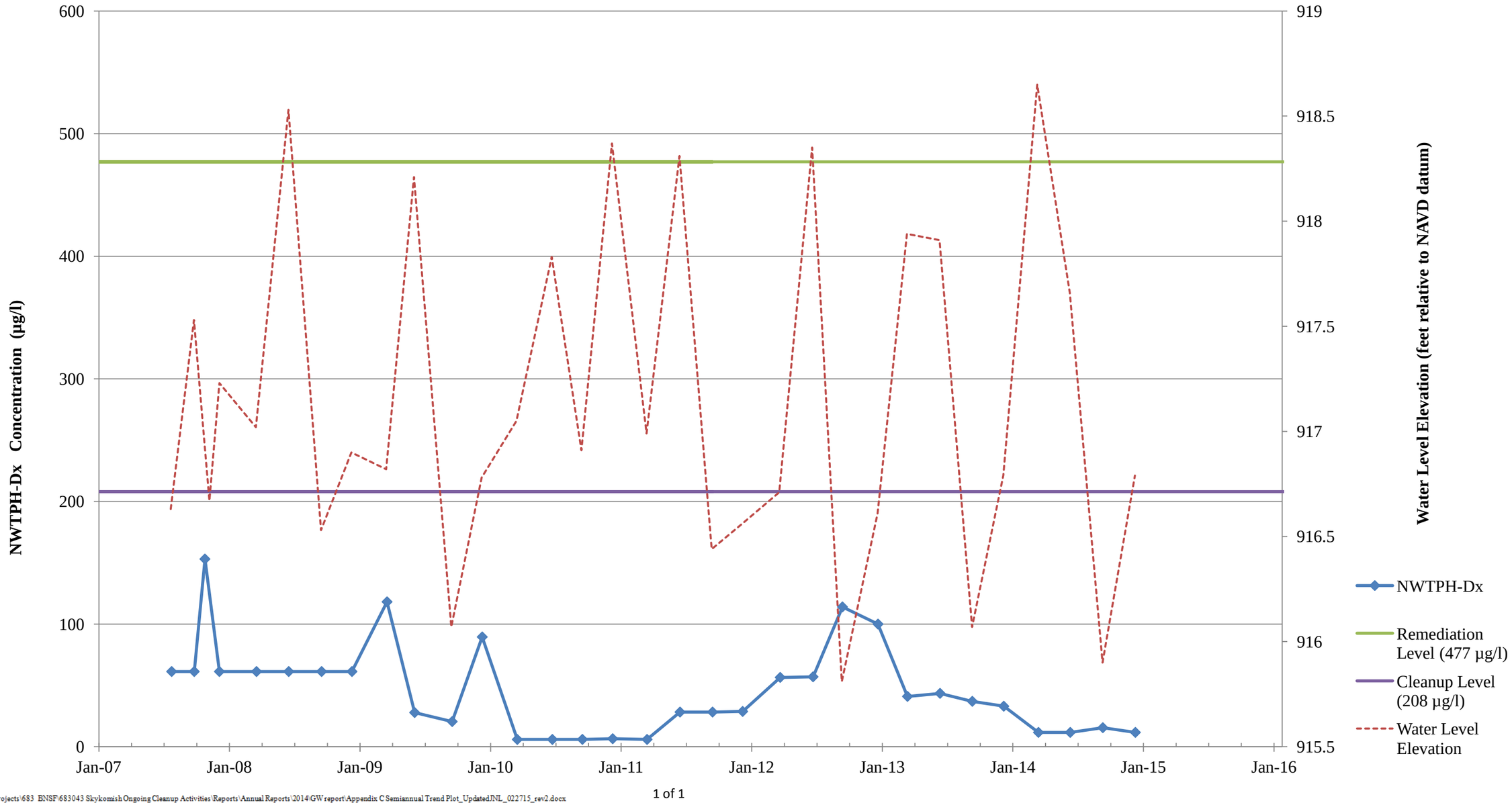
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-19



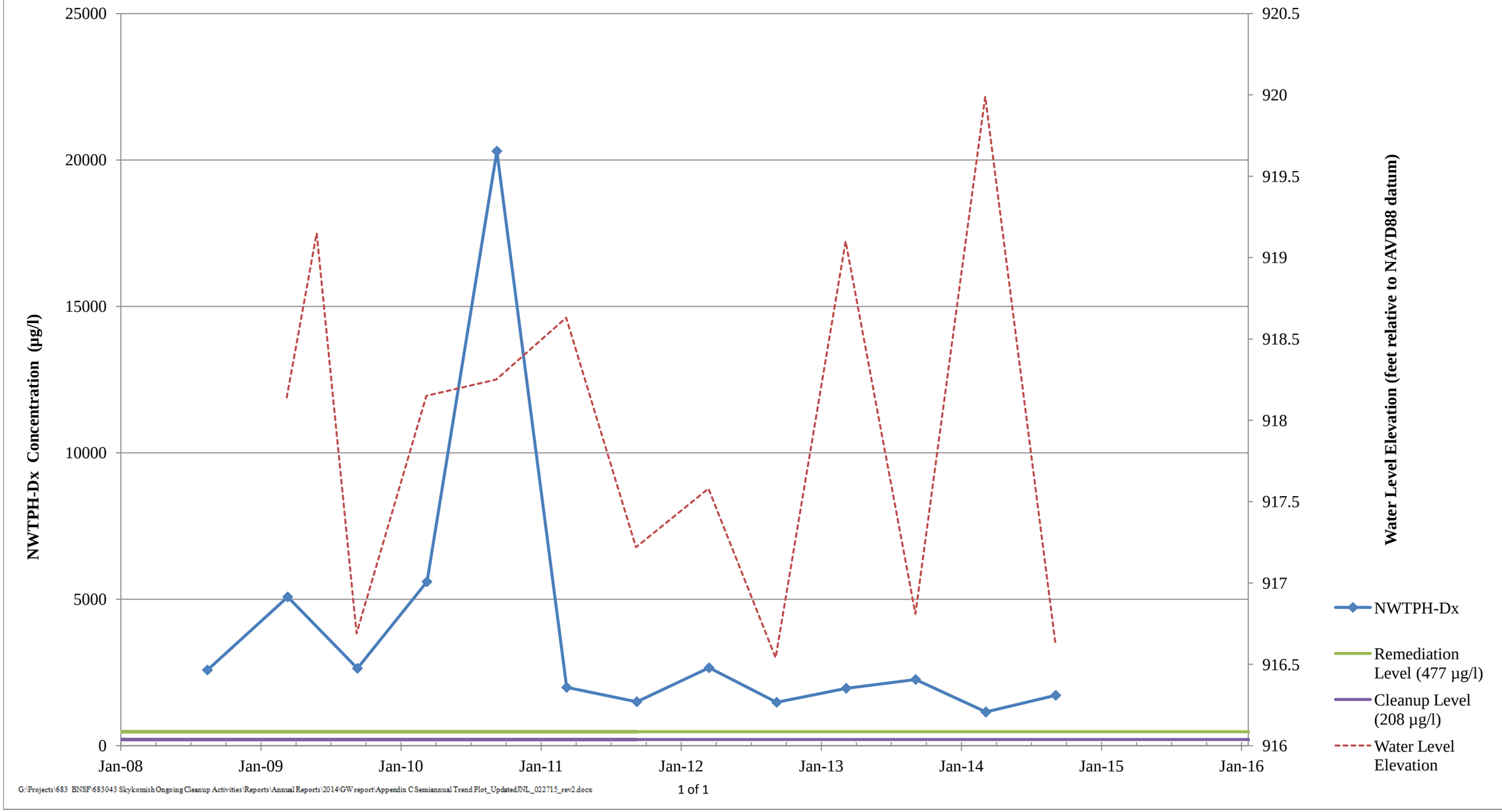
APPENDIX C

SCHOOLYARD

2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-50



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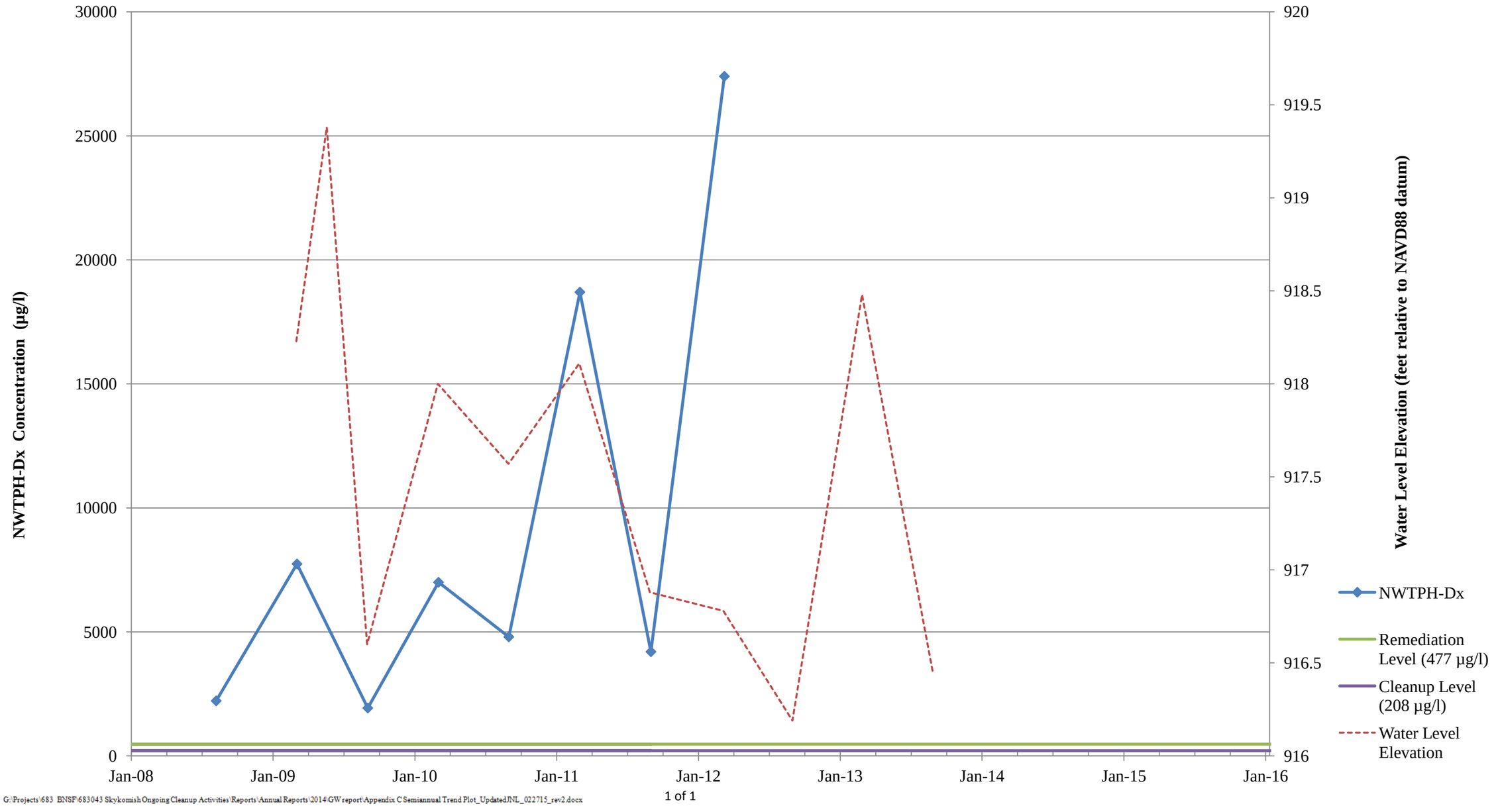
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-51



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BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
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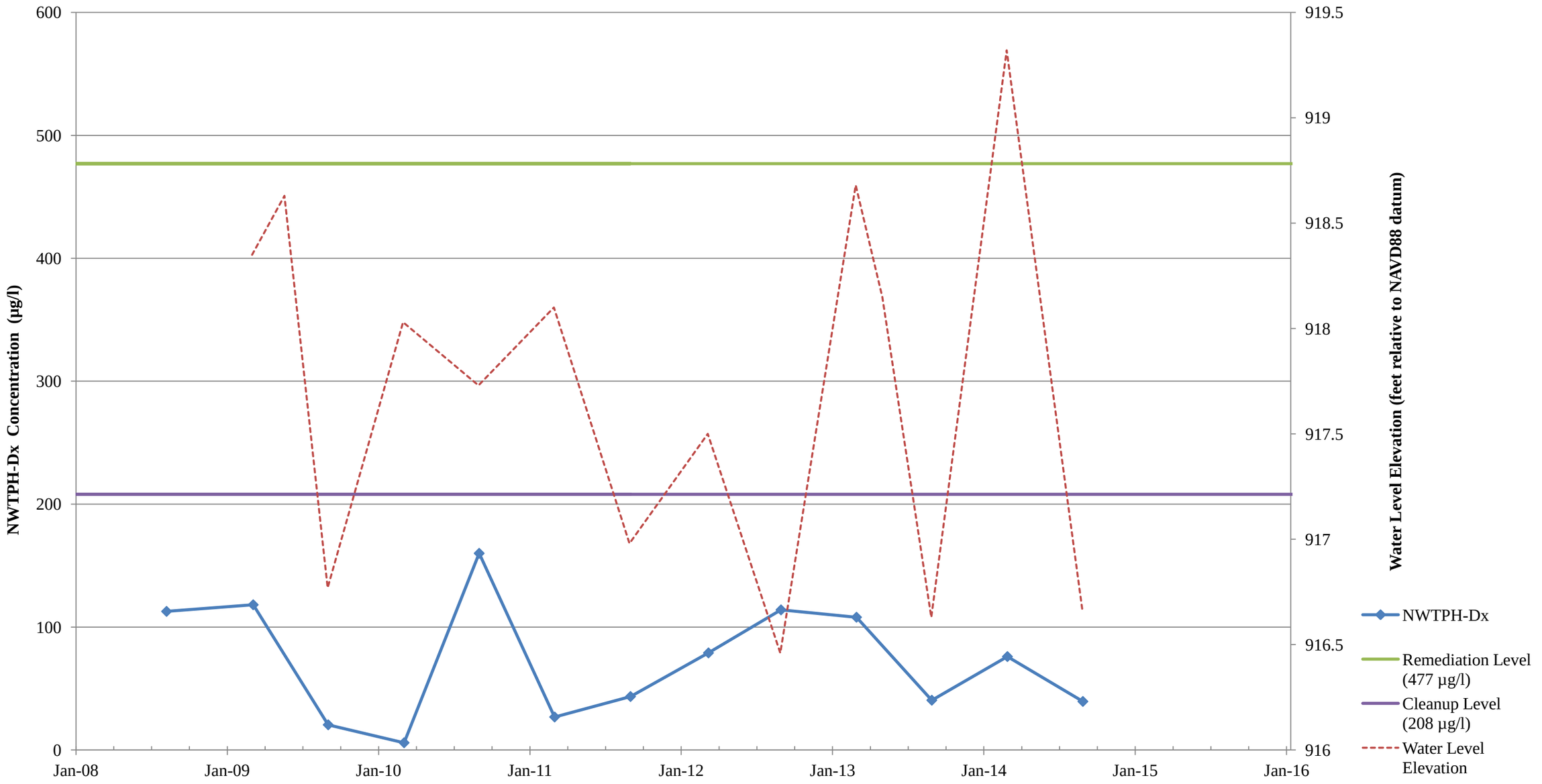

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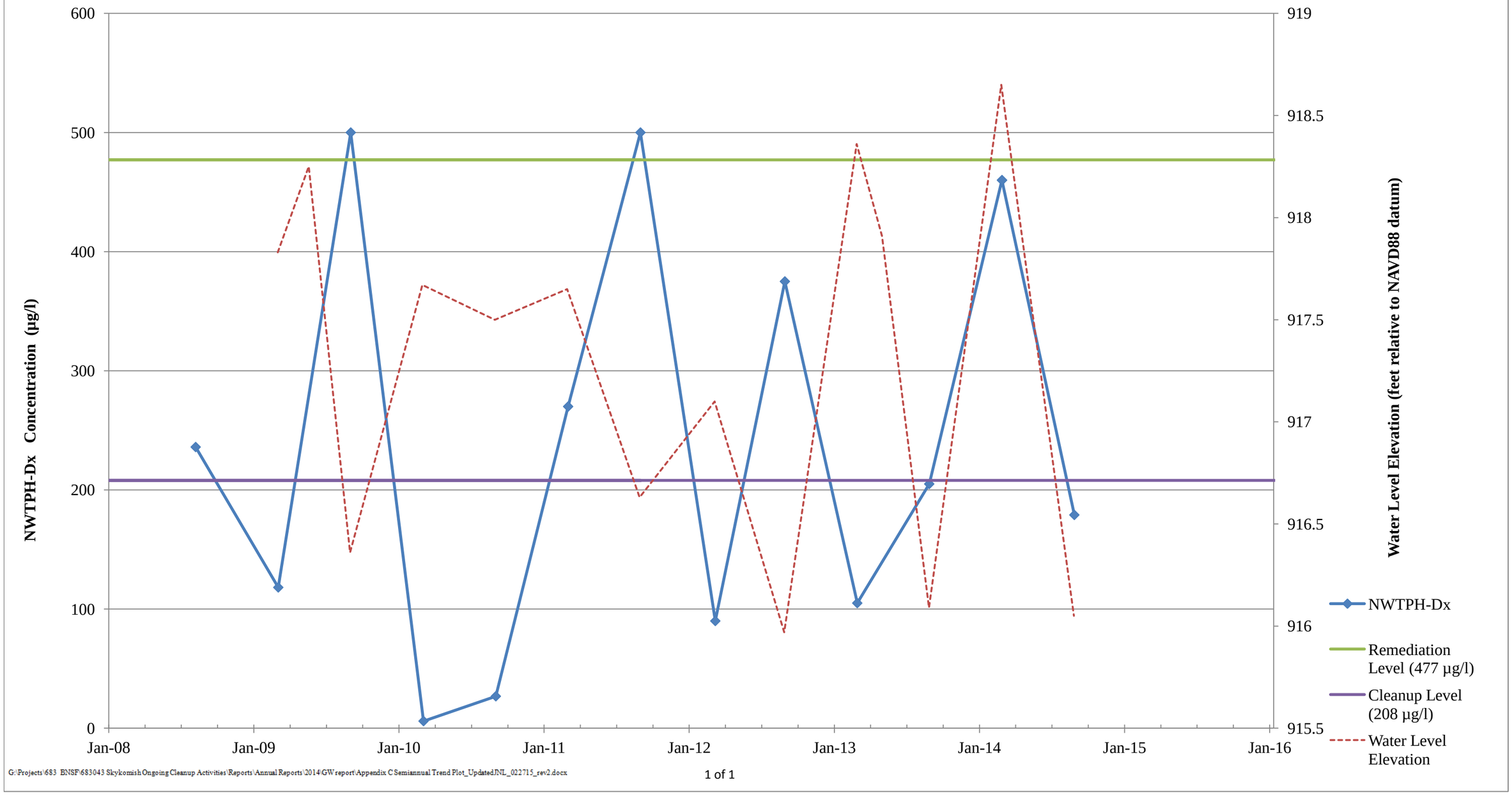
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-55



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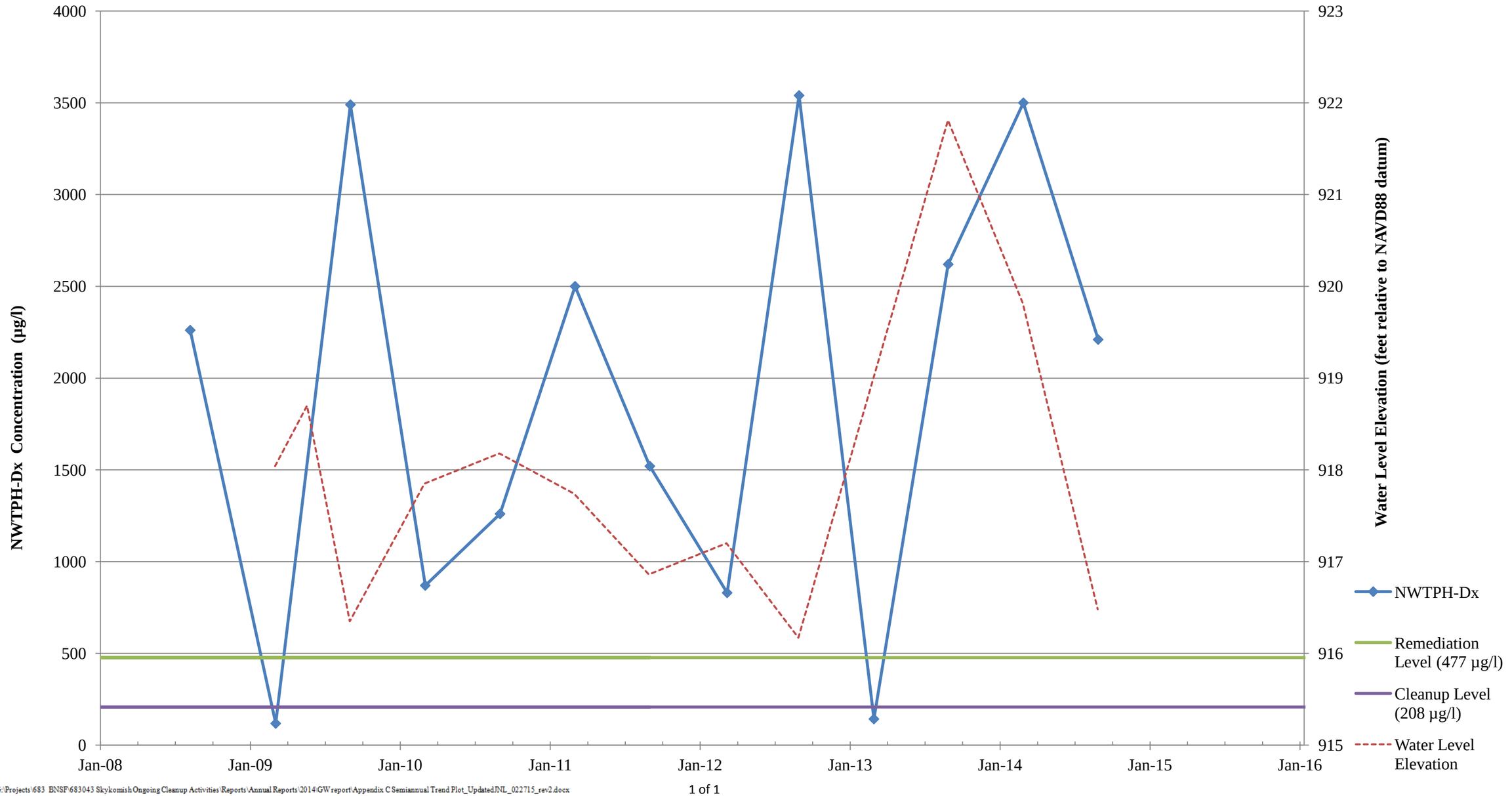
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-56



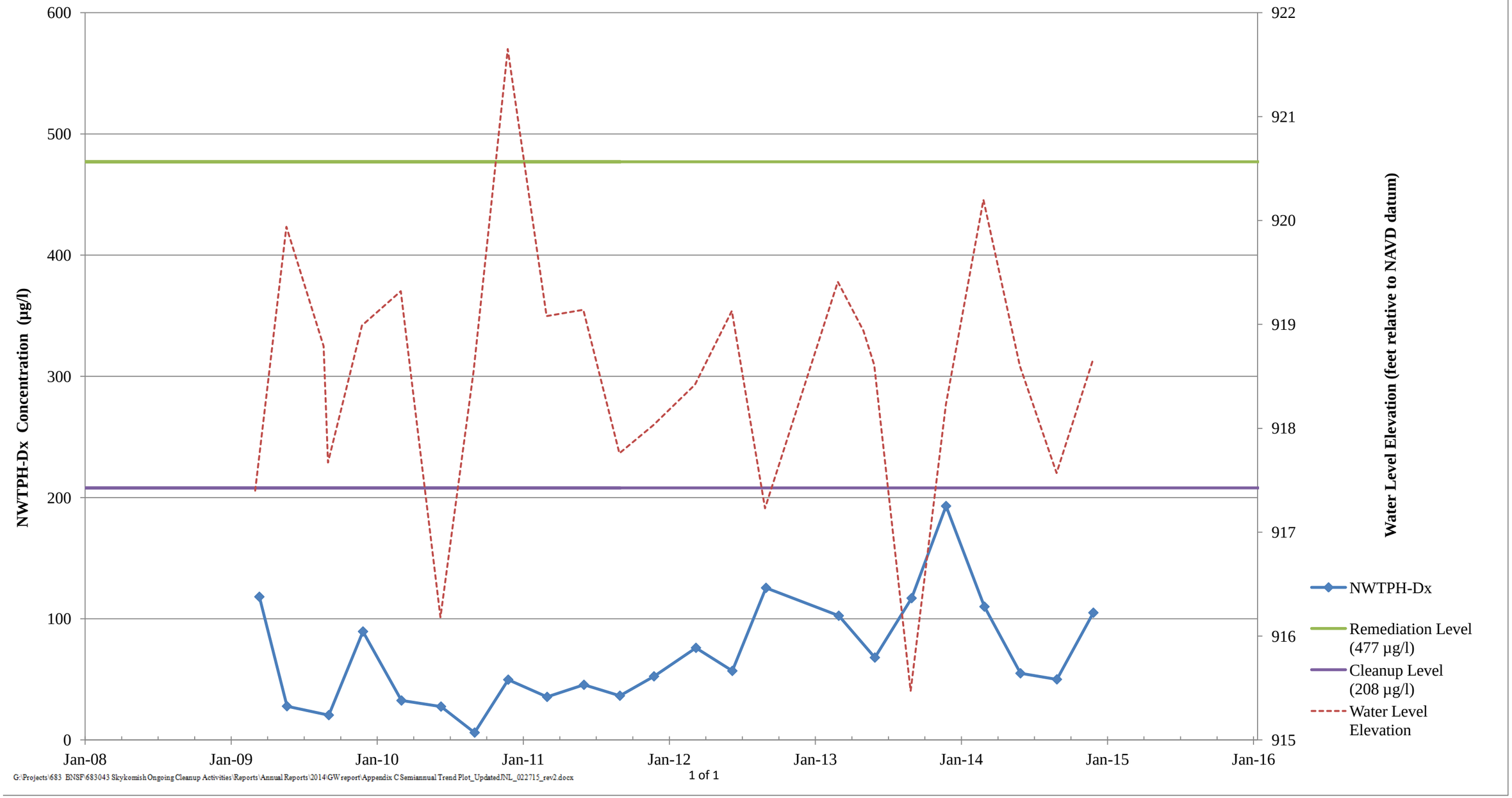
APPENDIX C

HCC SYSTEM

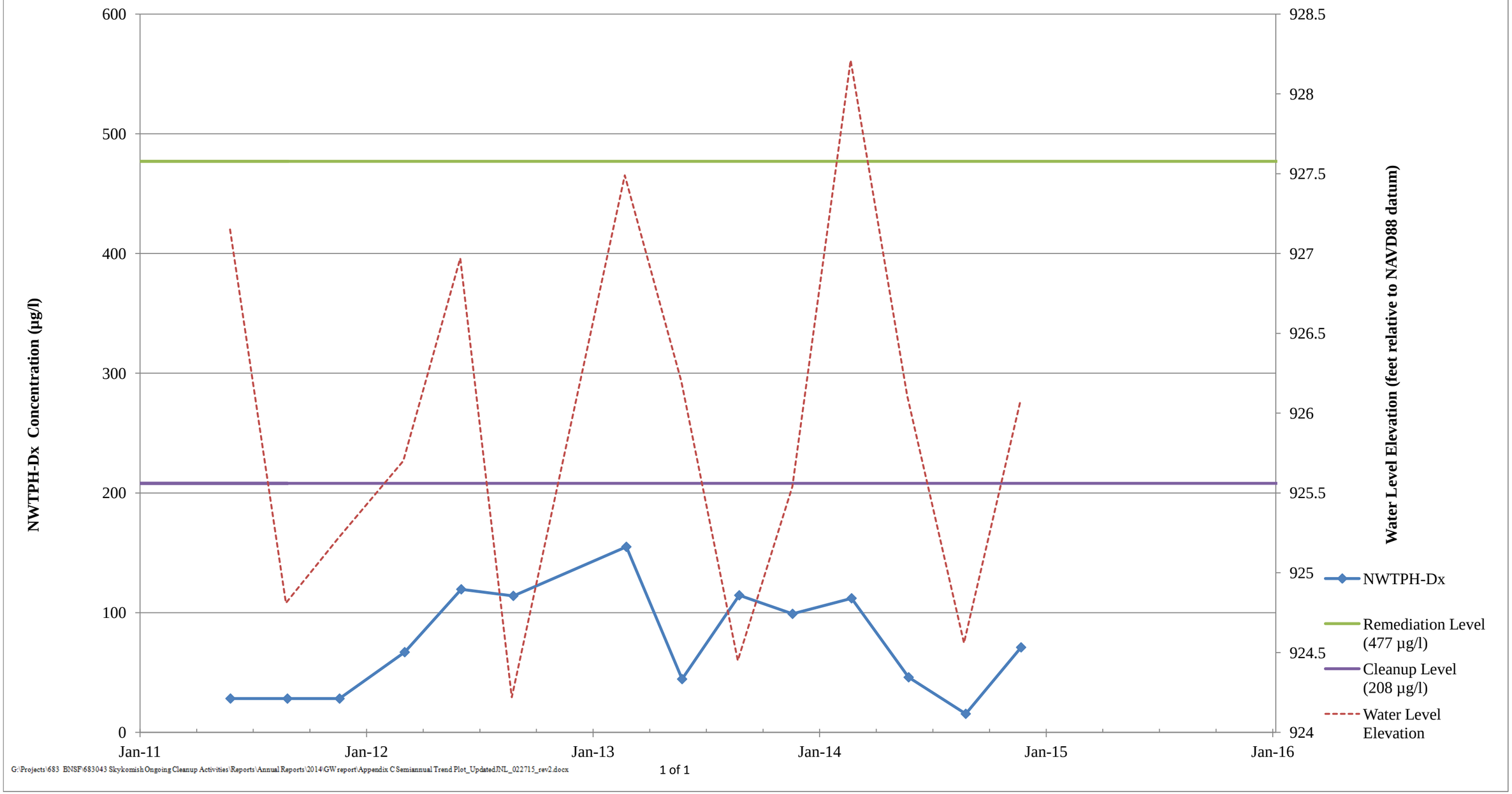
2014 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

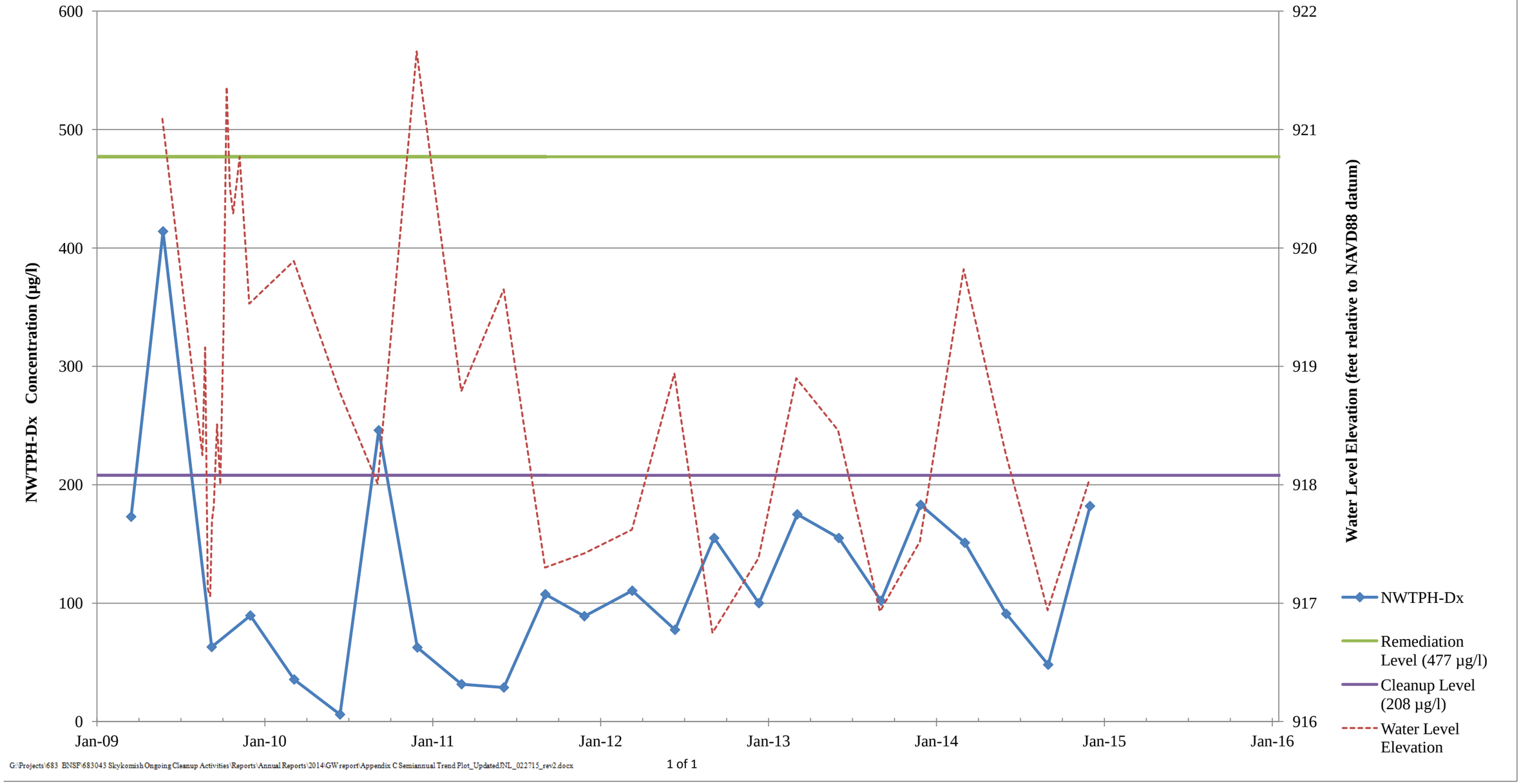
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
EW-1



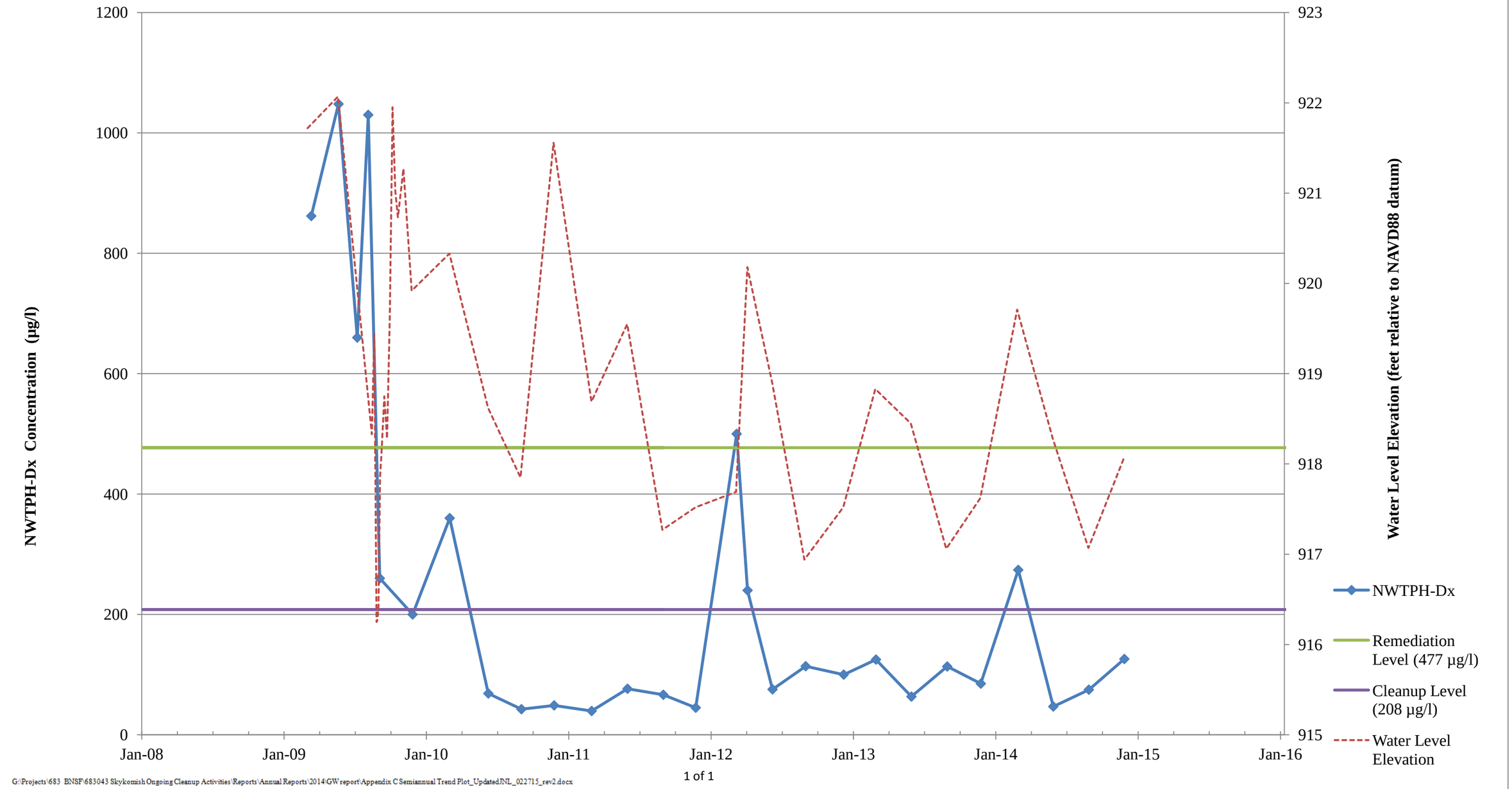
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
EW-2A



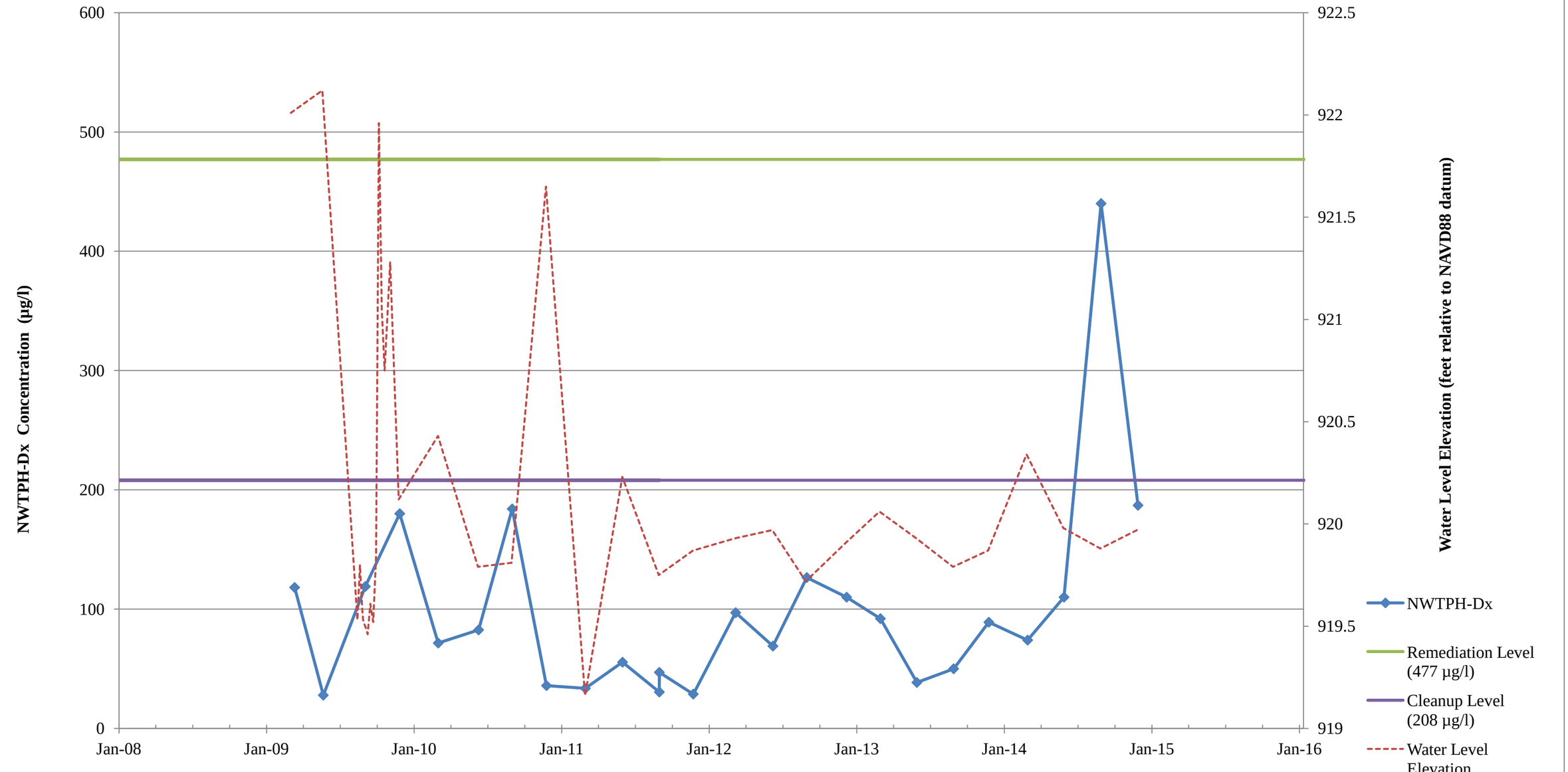
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
GW-1



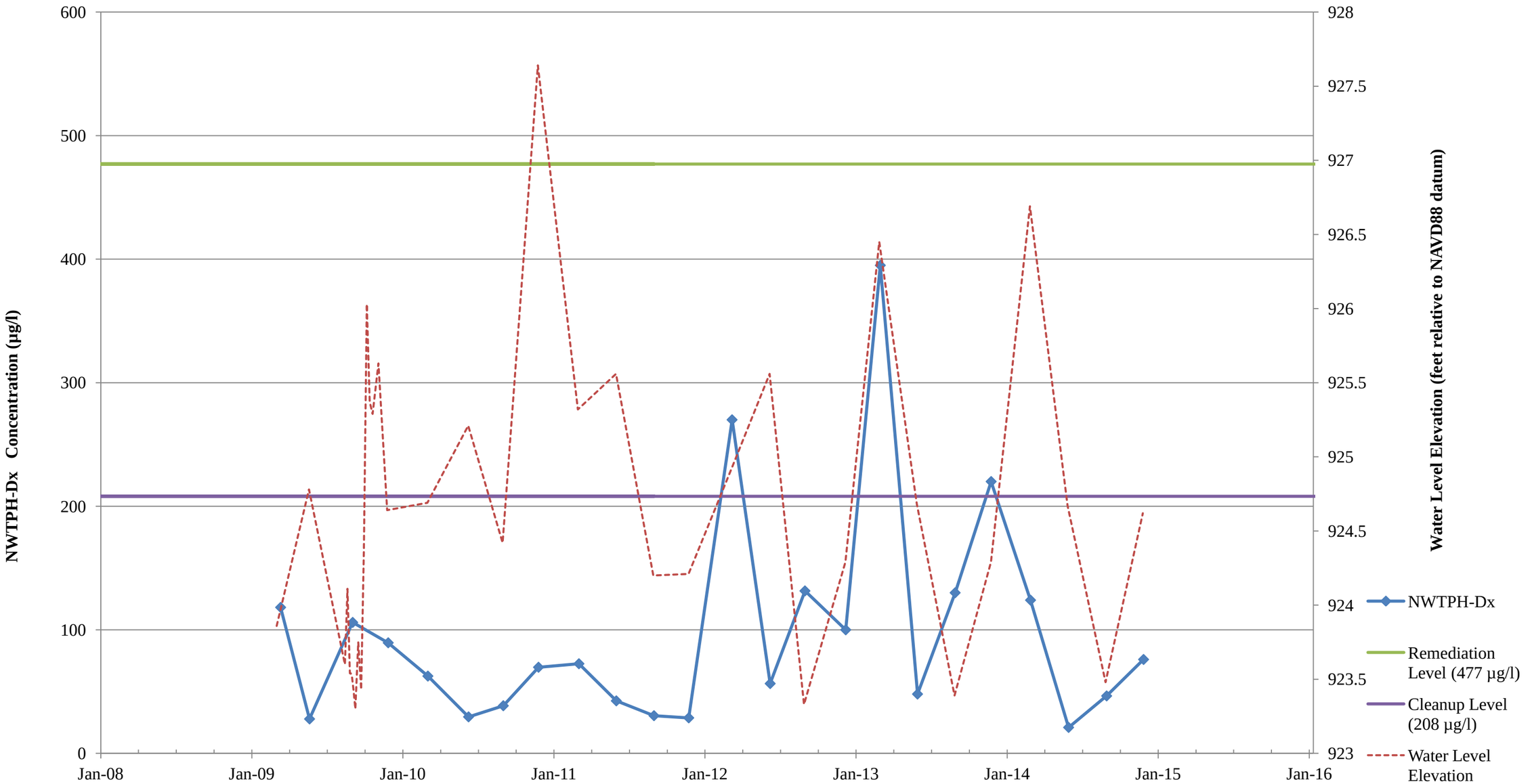
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
GW-2



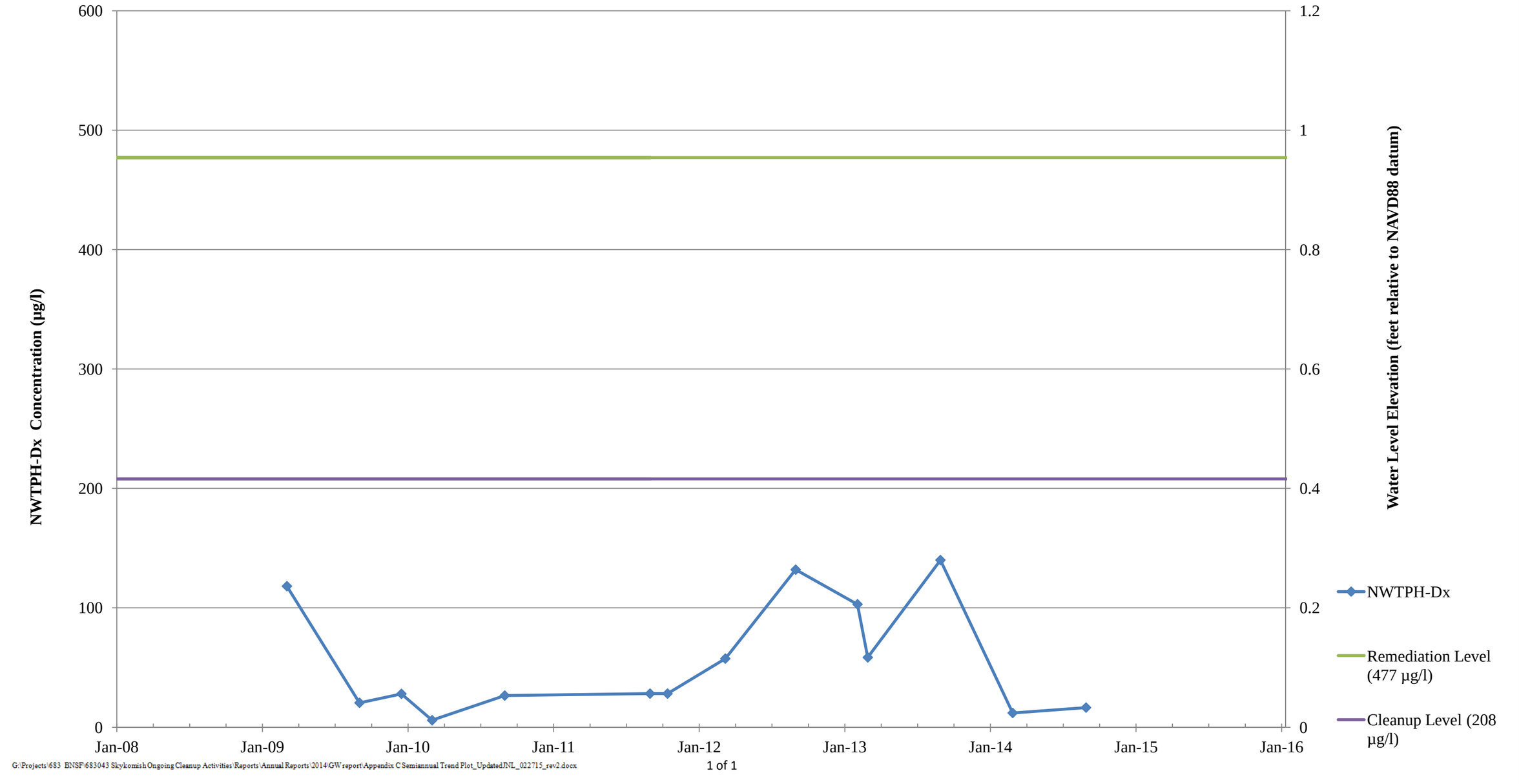
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
GW-3



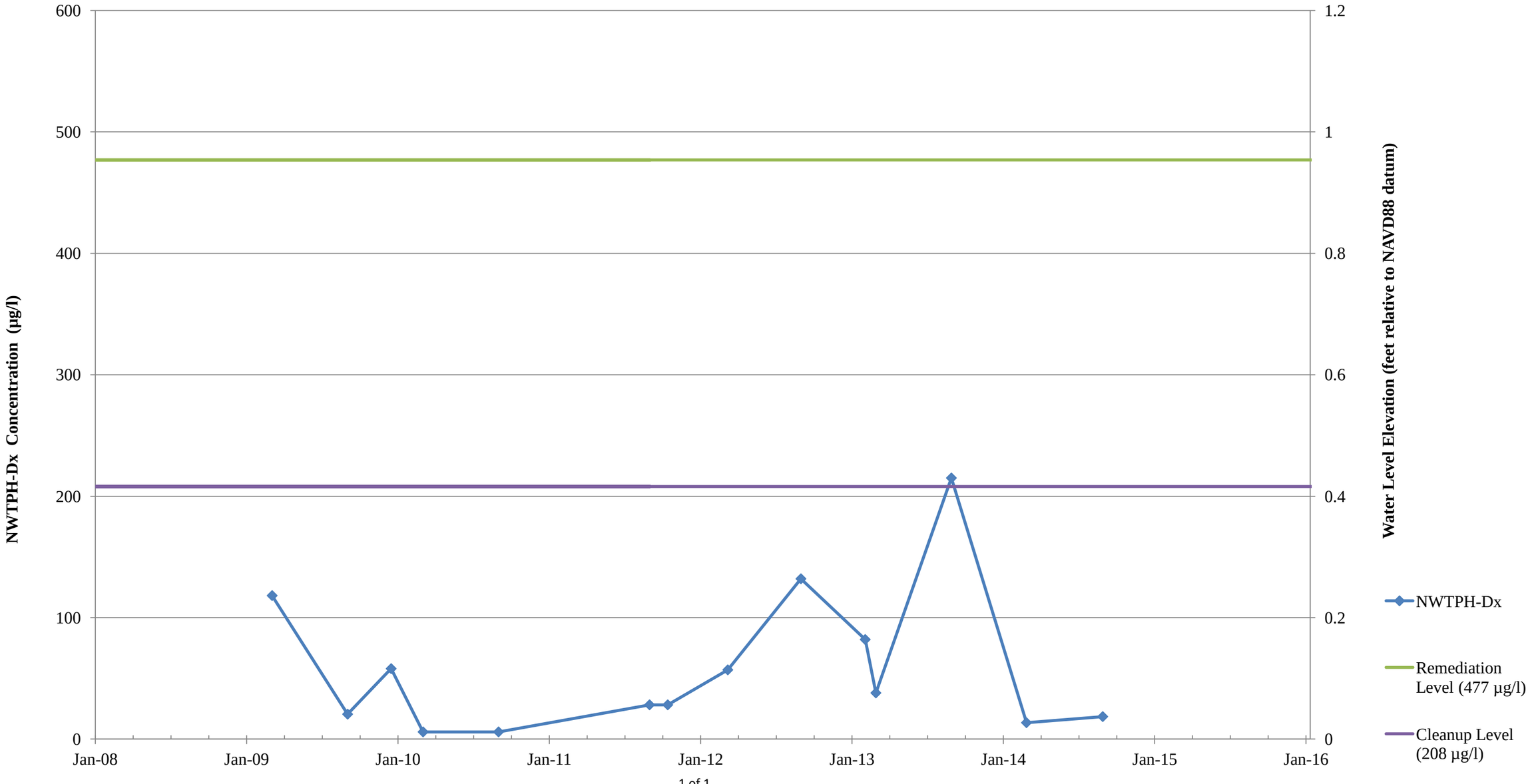
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
GW-4



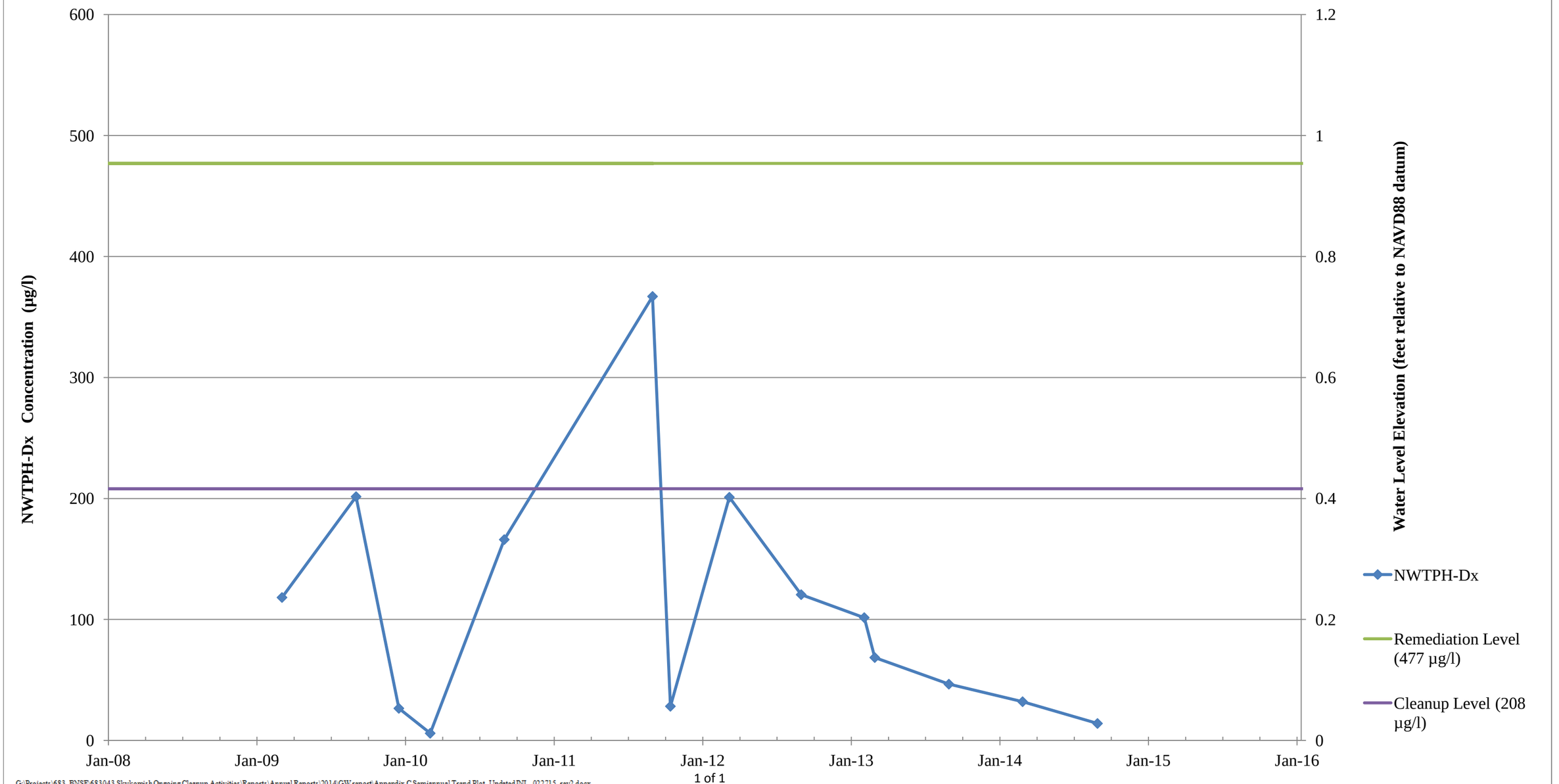
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S1-AD



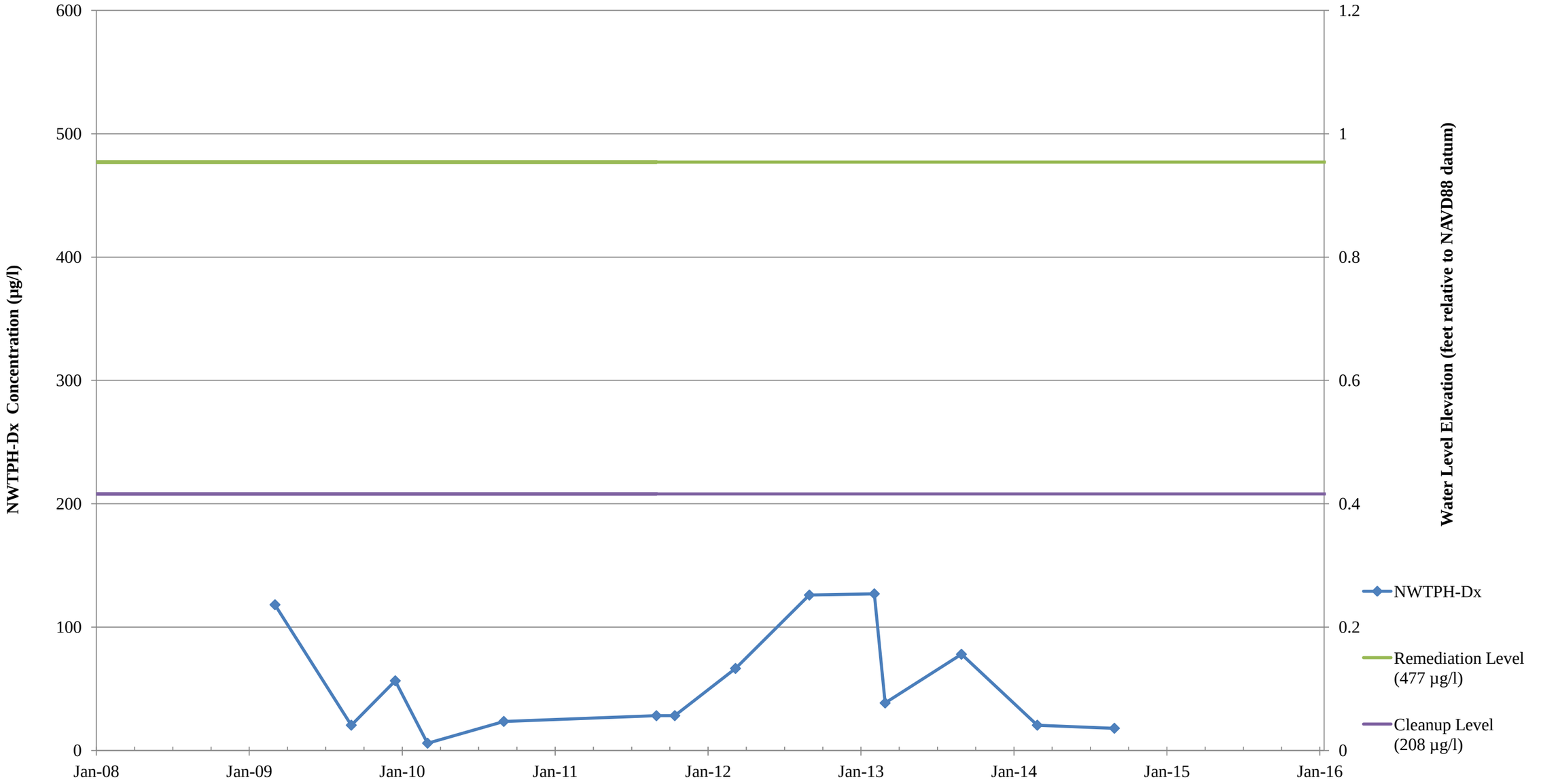
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S1-AU



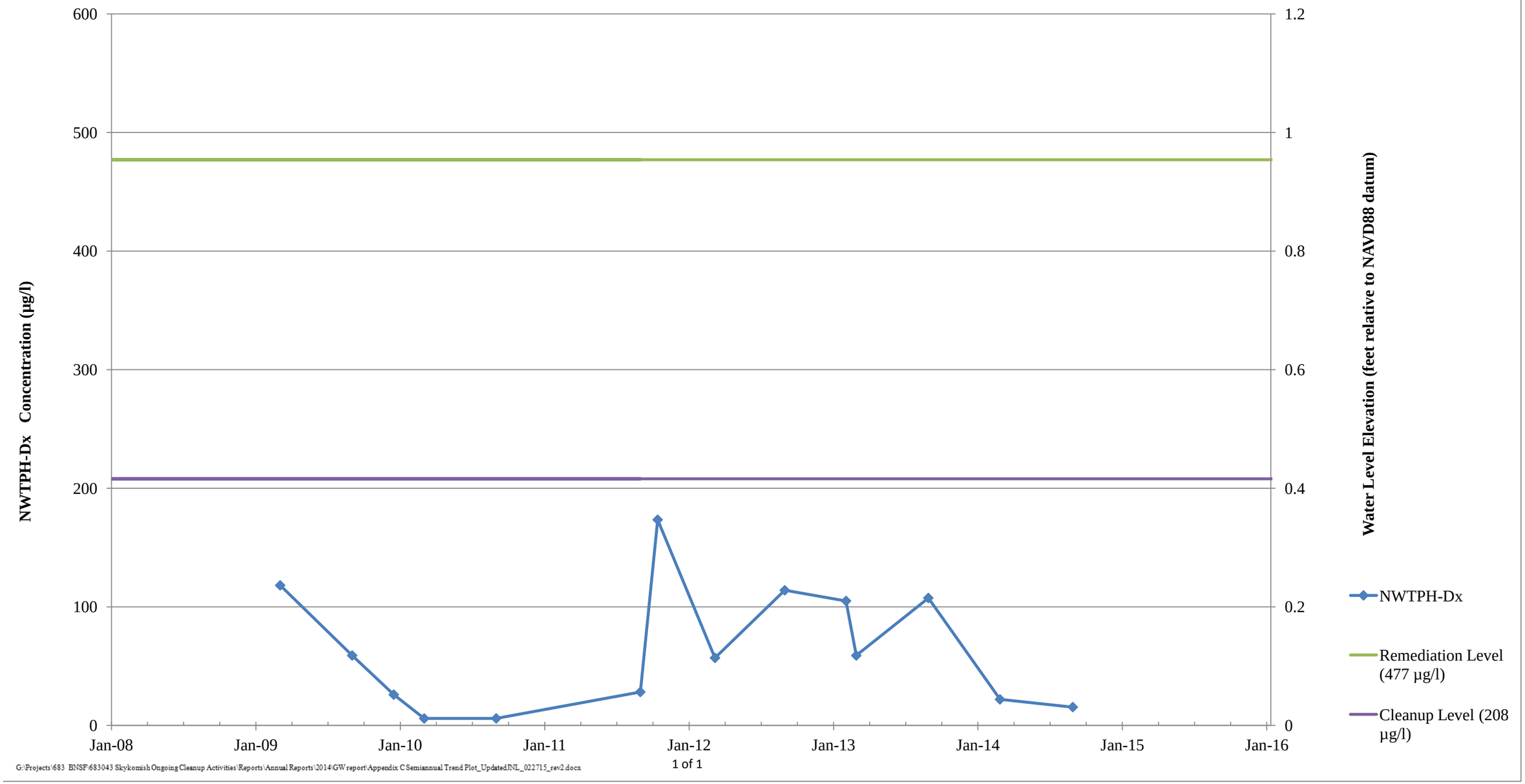
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S1-BD



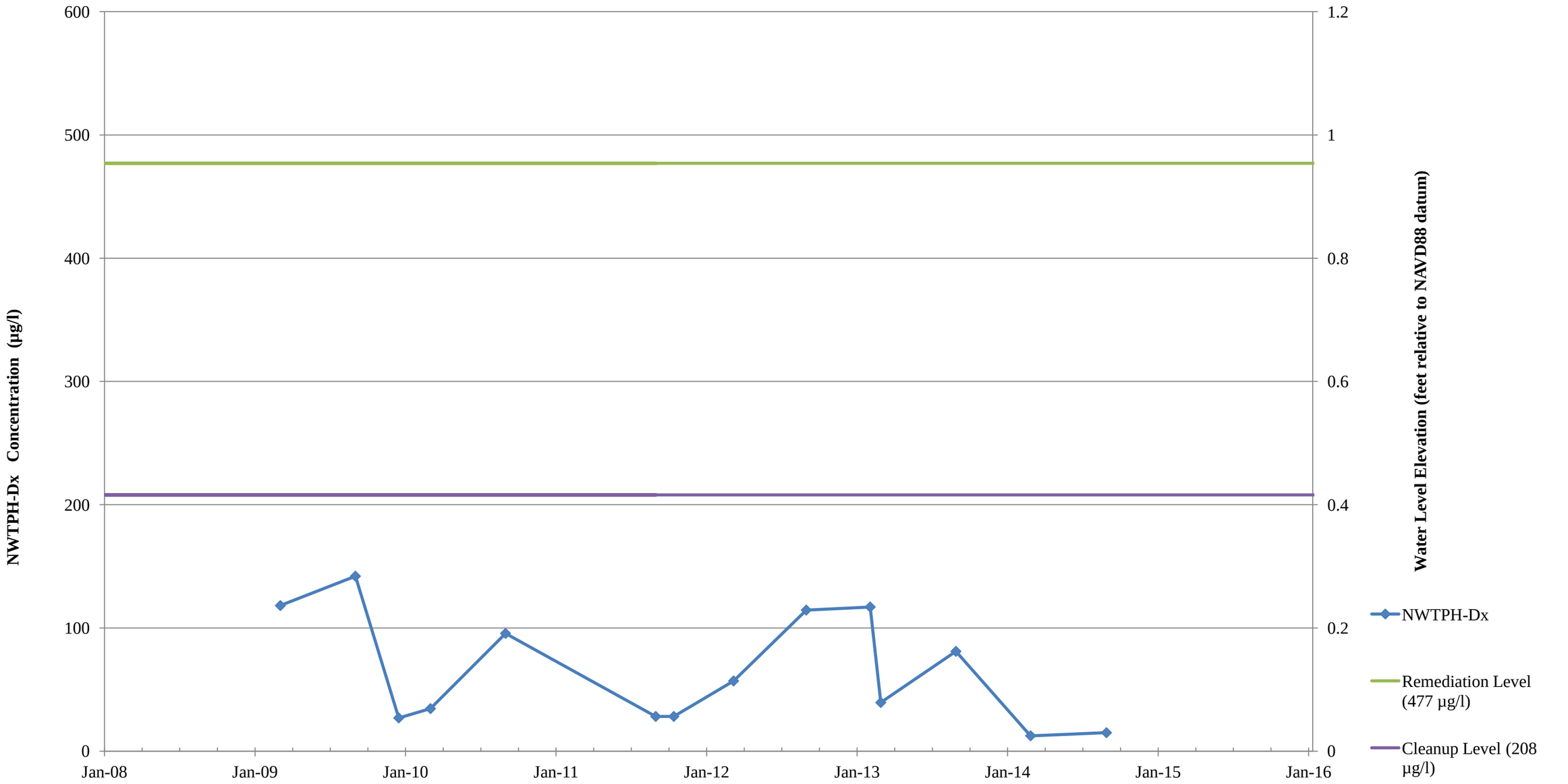
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S1-BU



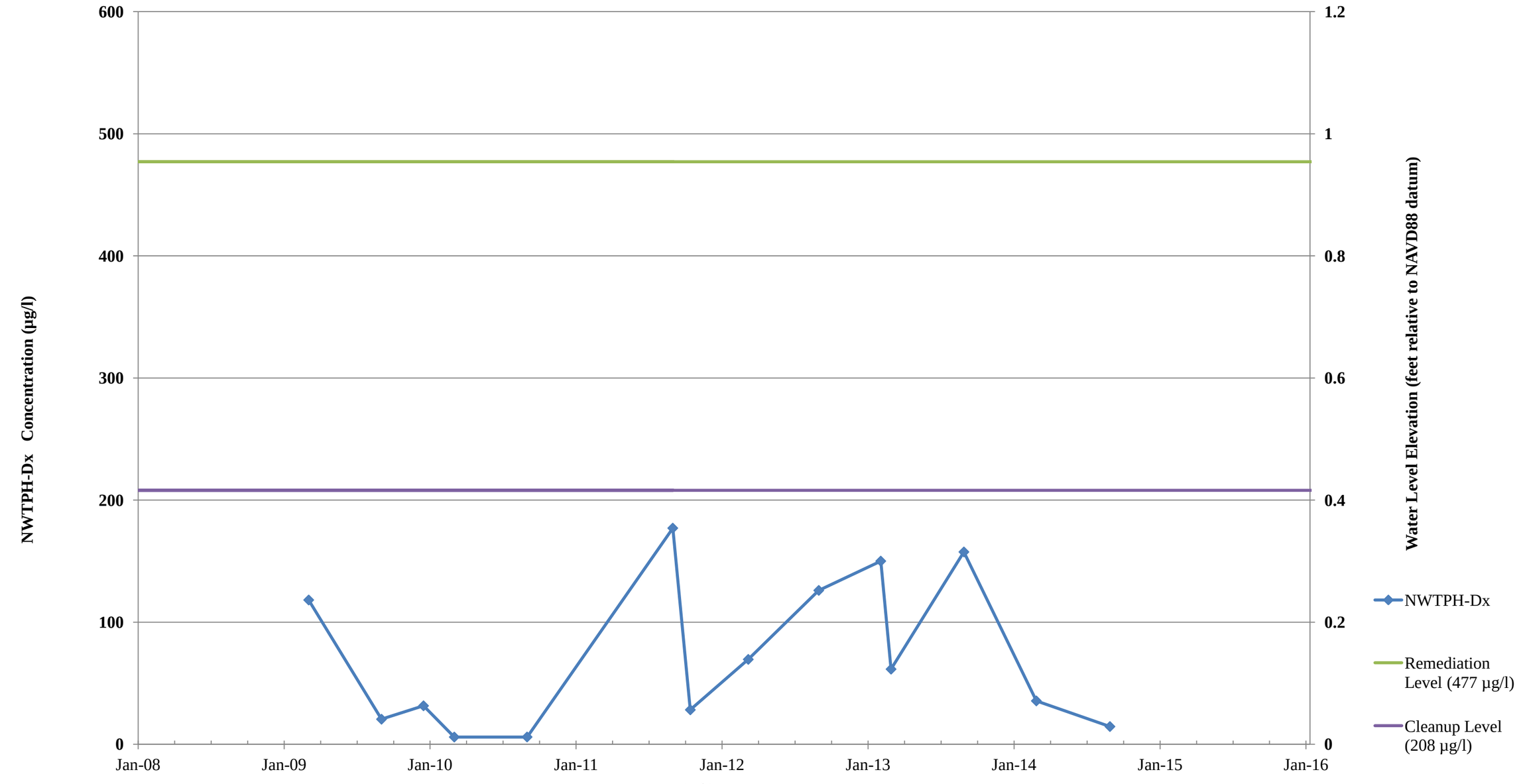
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S2-AD



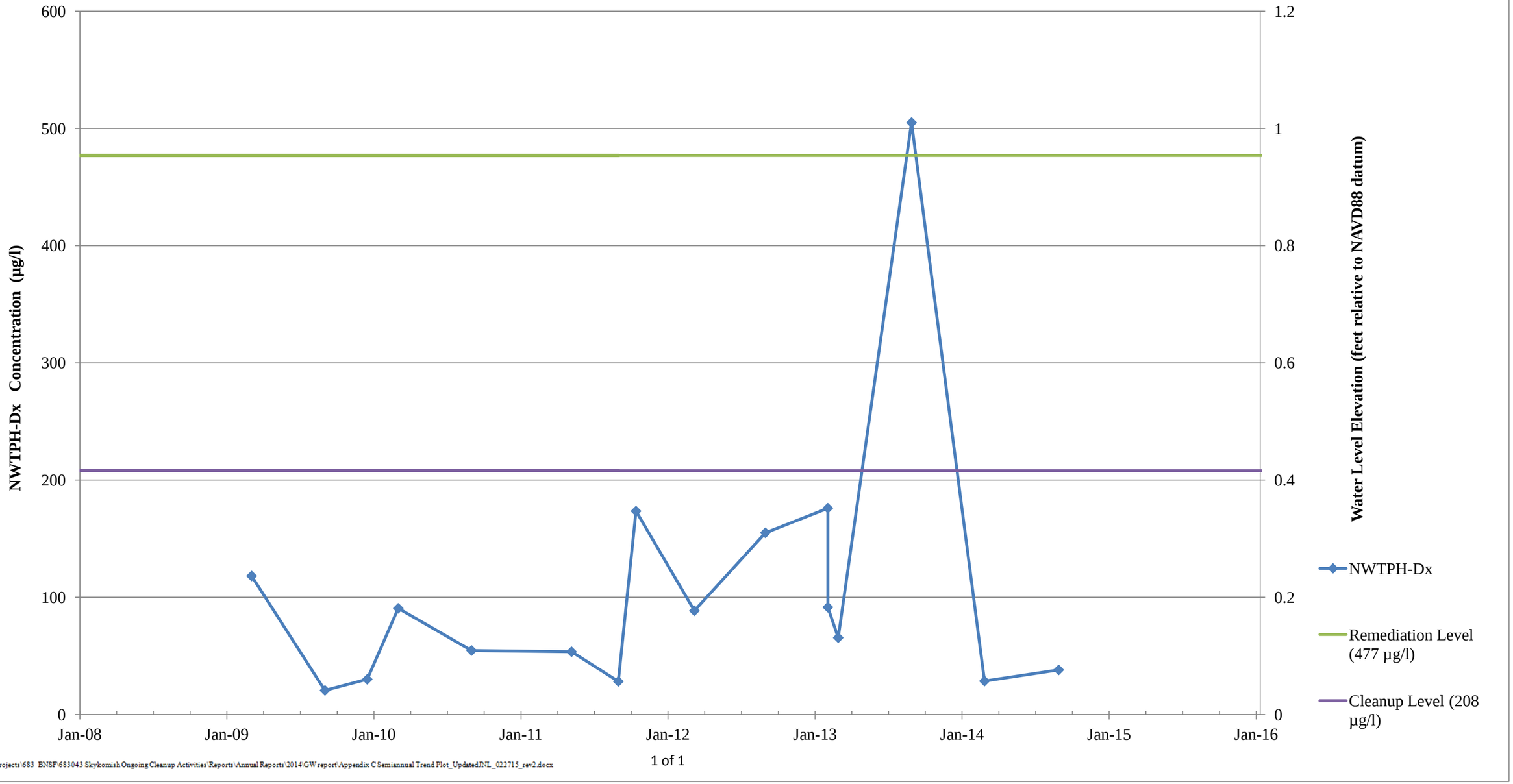
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S2-AU



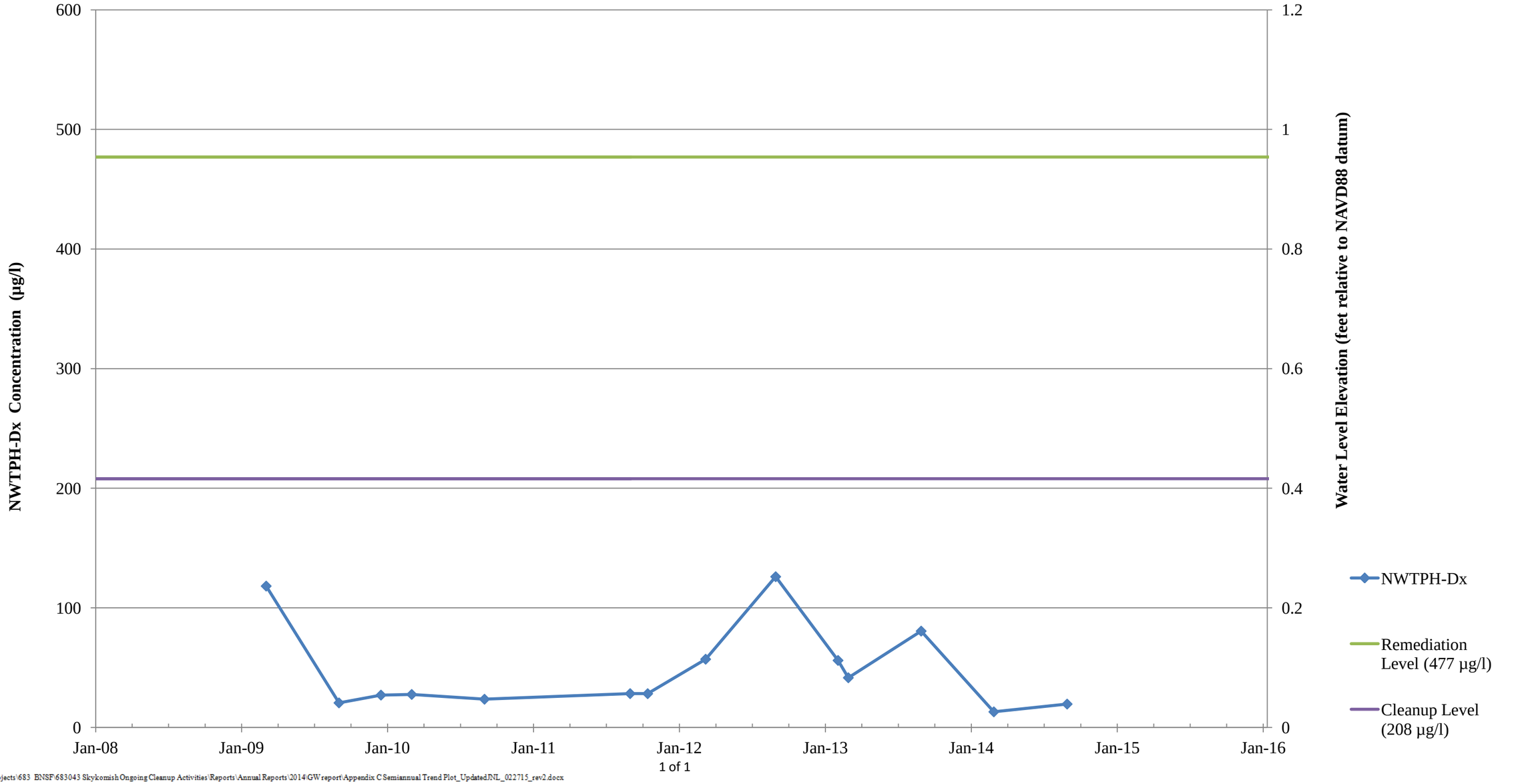
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S2-BD



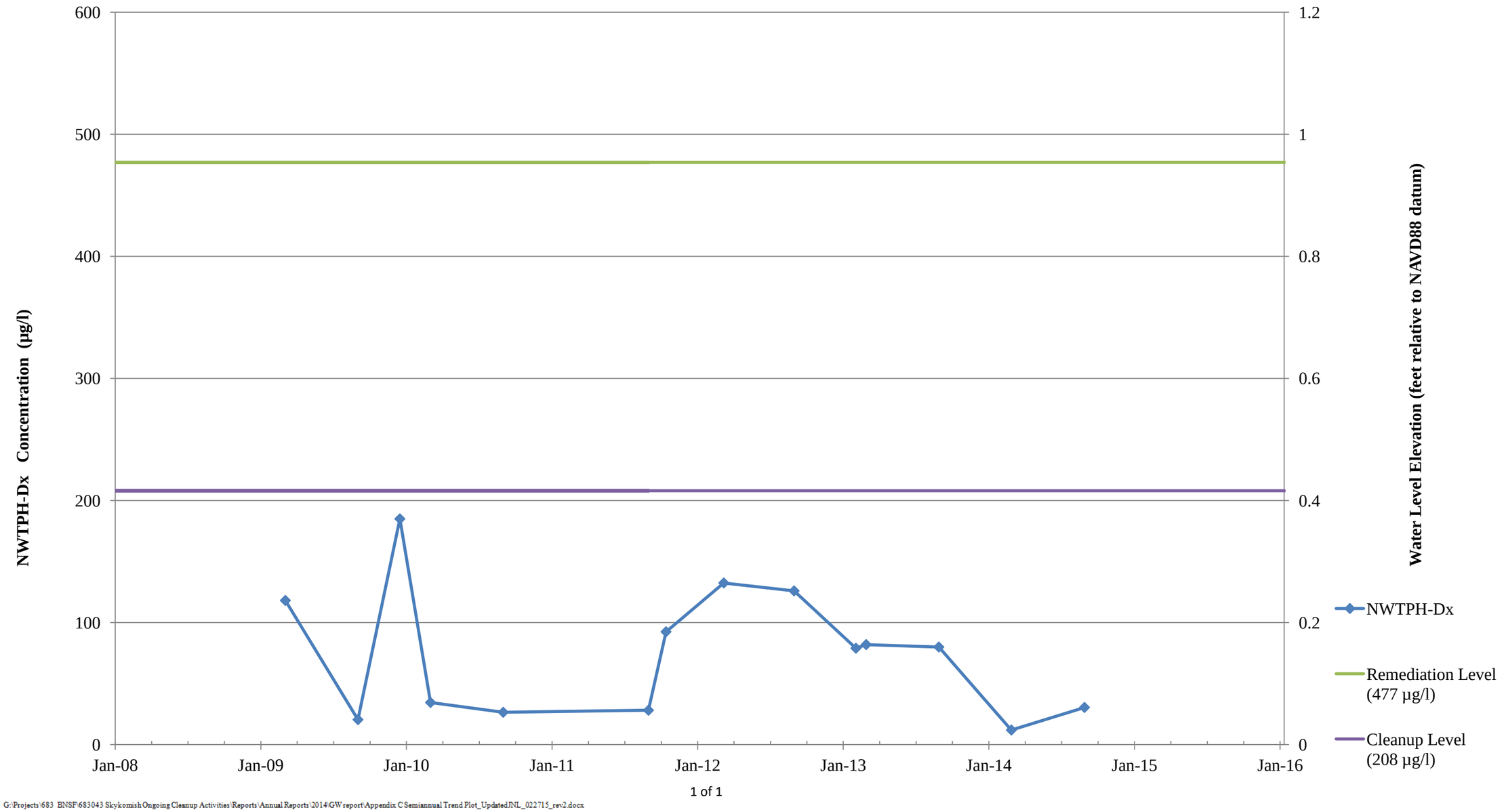
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S2-BU



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S3-AD



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S3-AU



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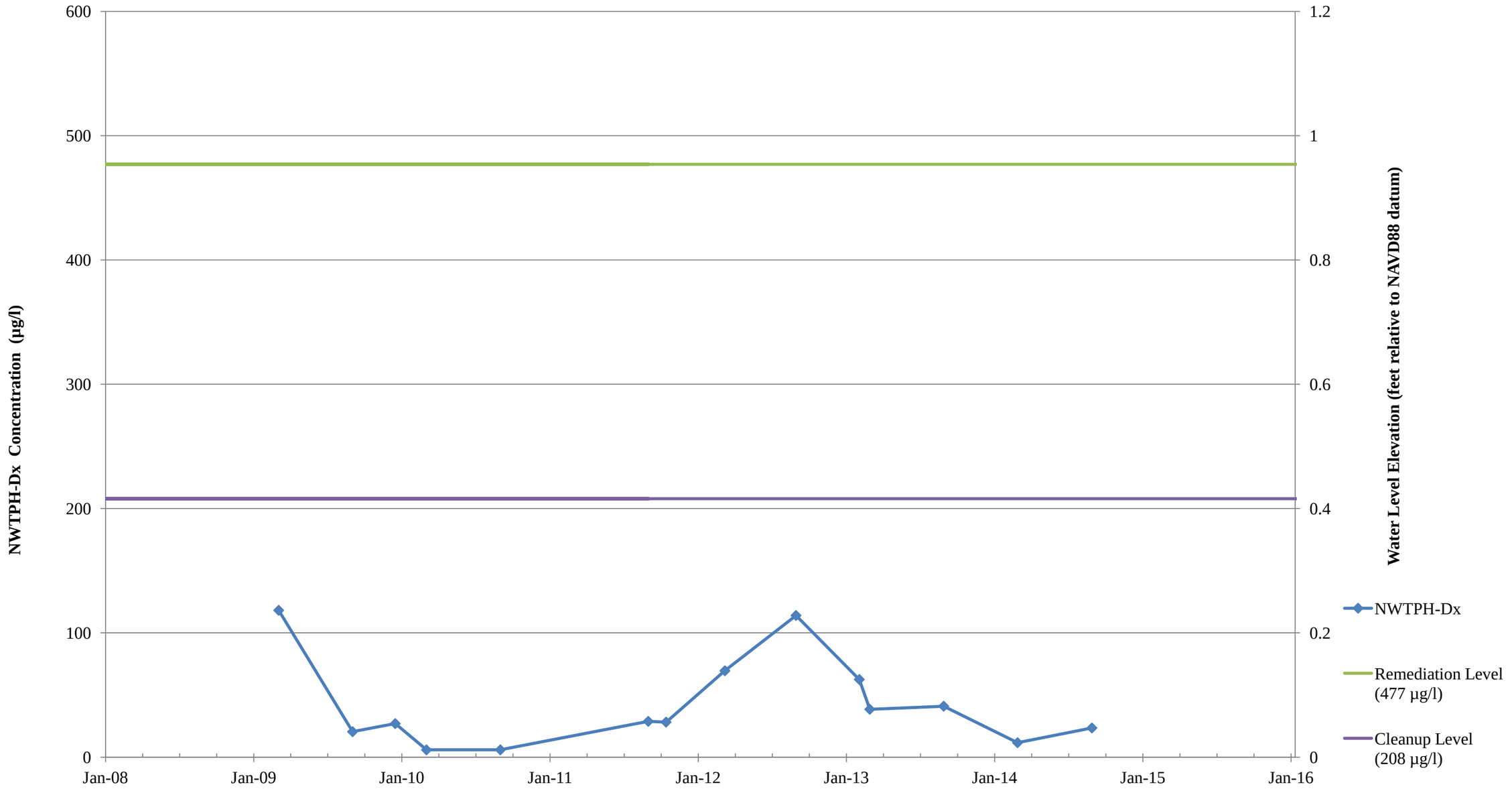
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S3-BD



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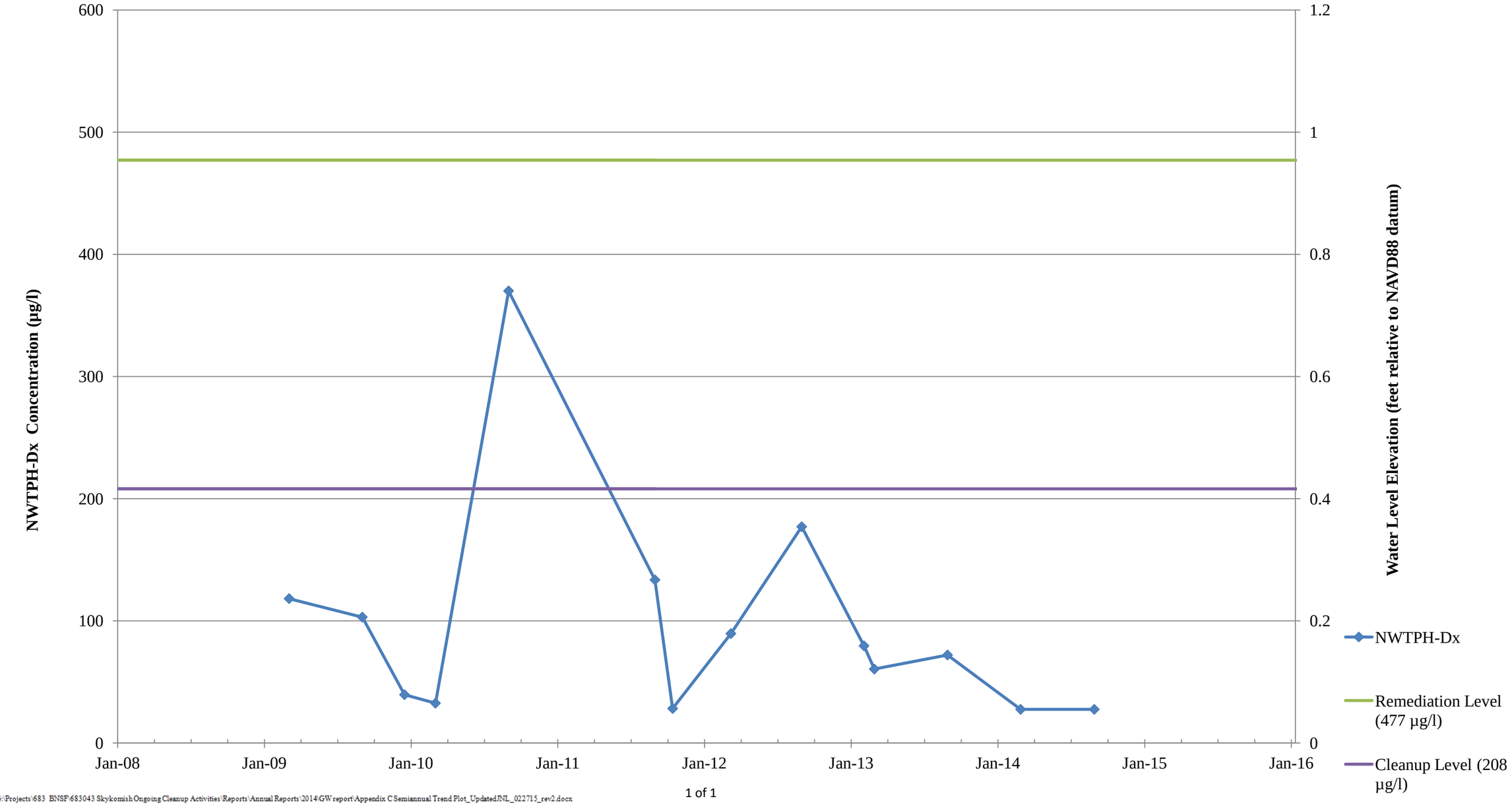
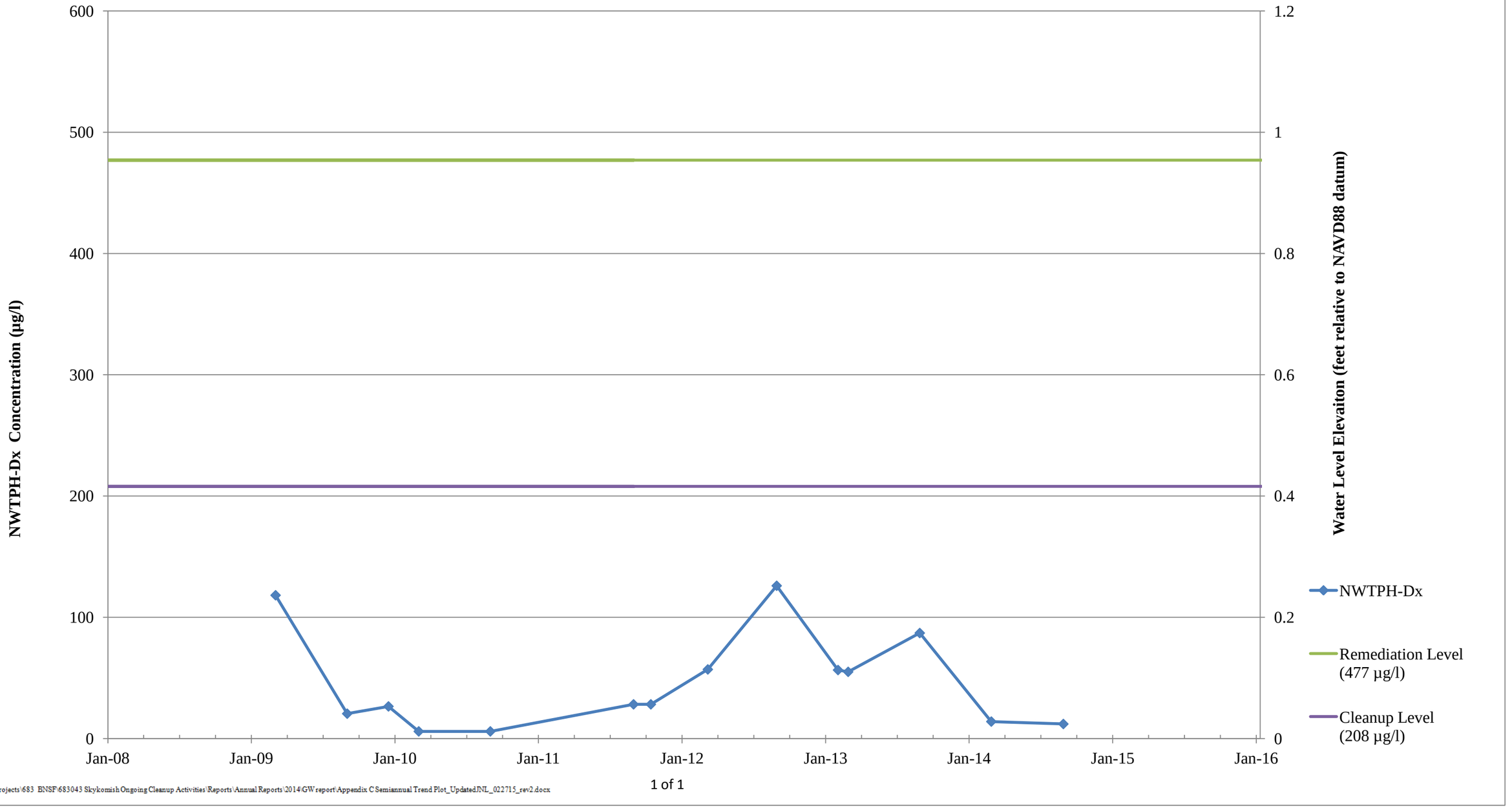
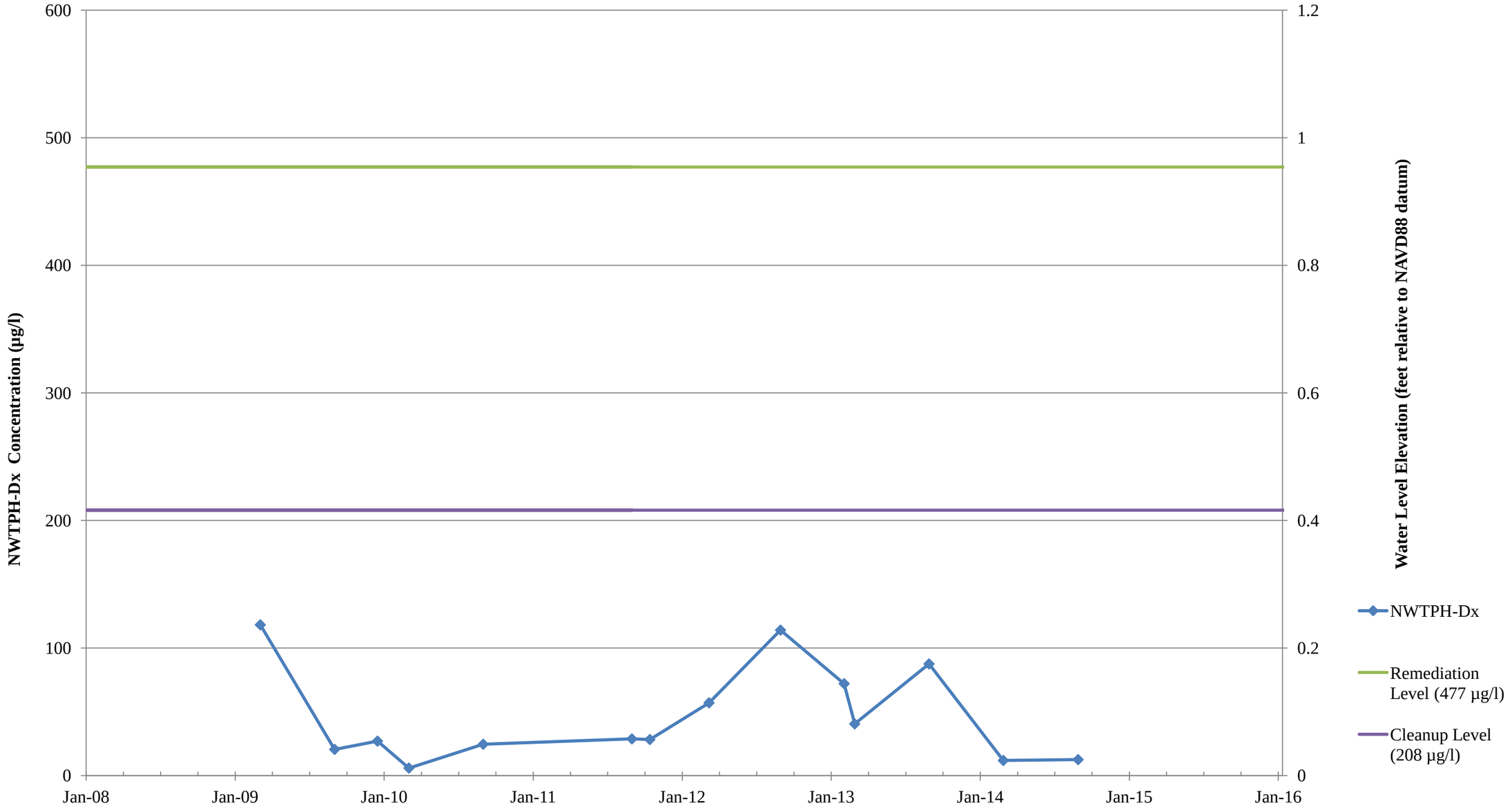
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S3-BU



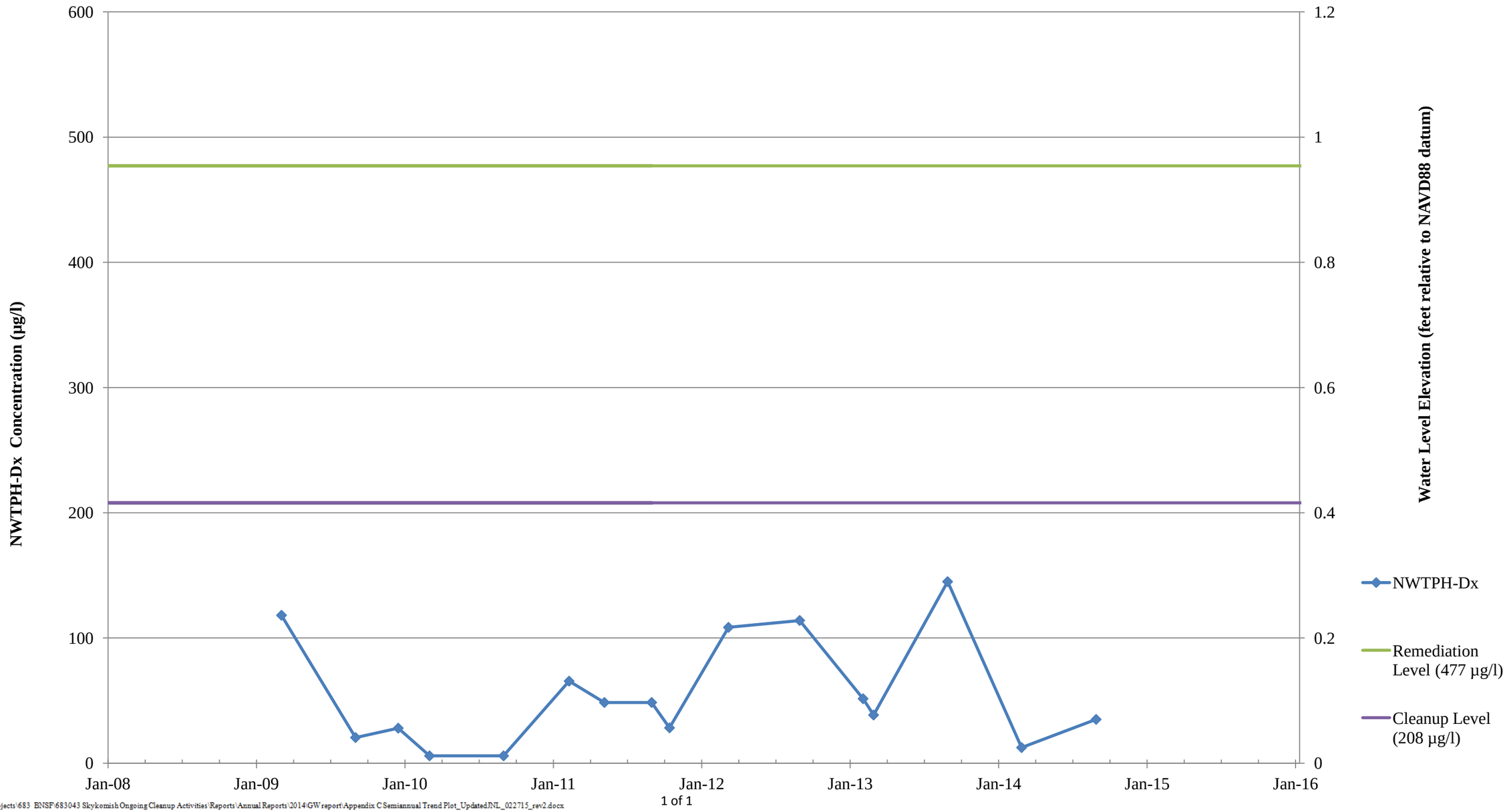
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S3-CD



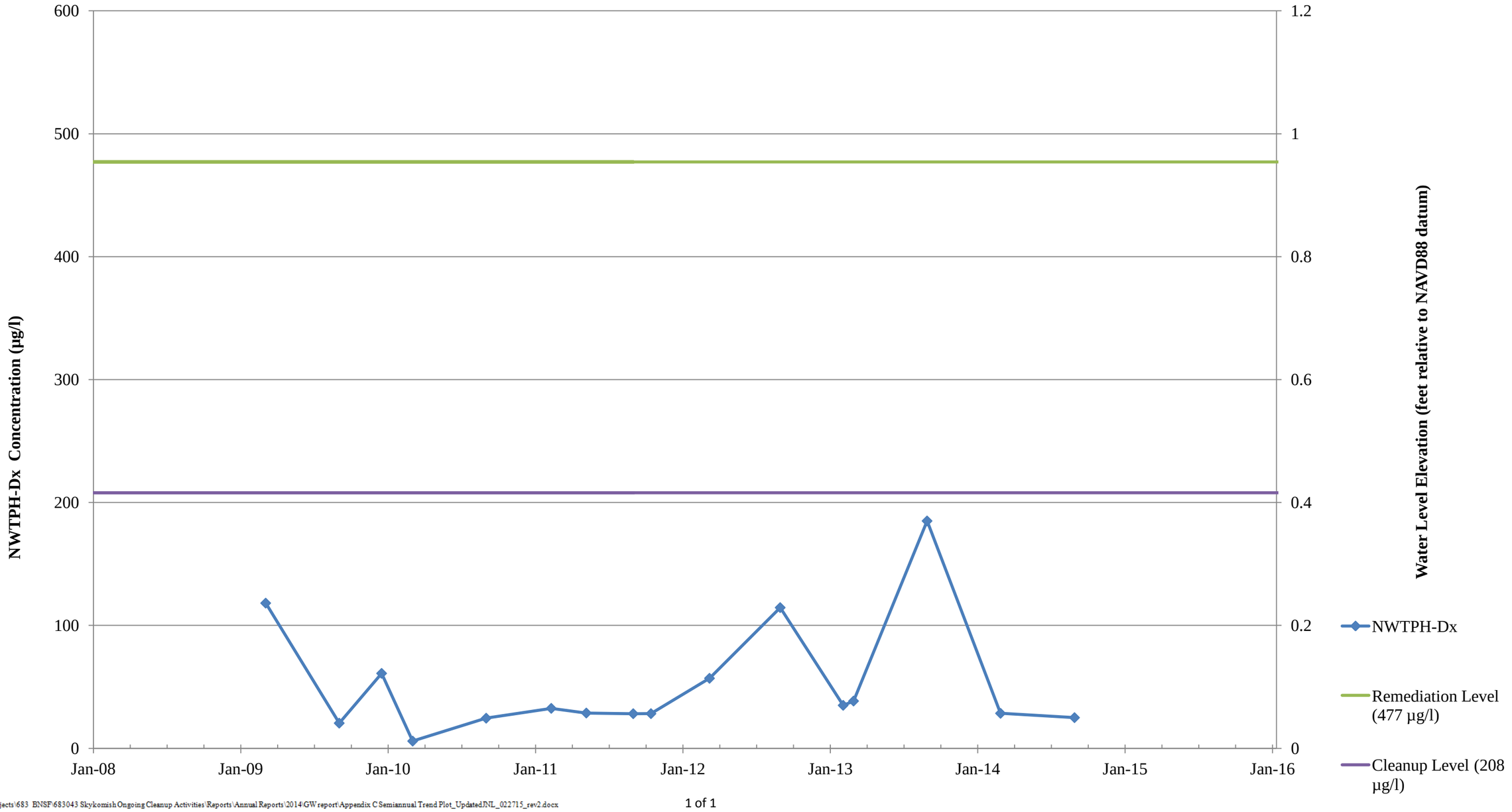
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S3-CU



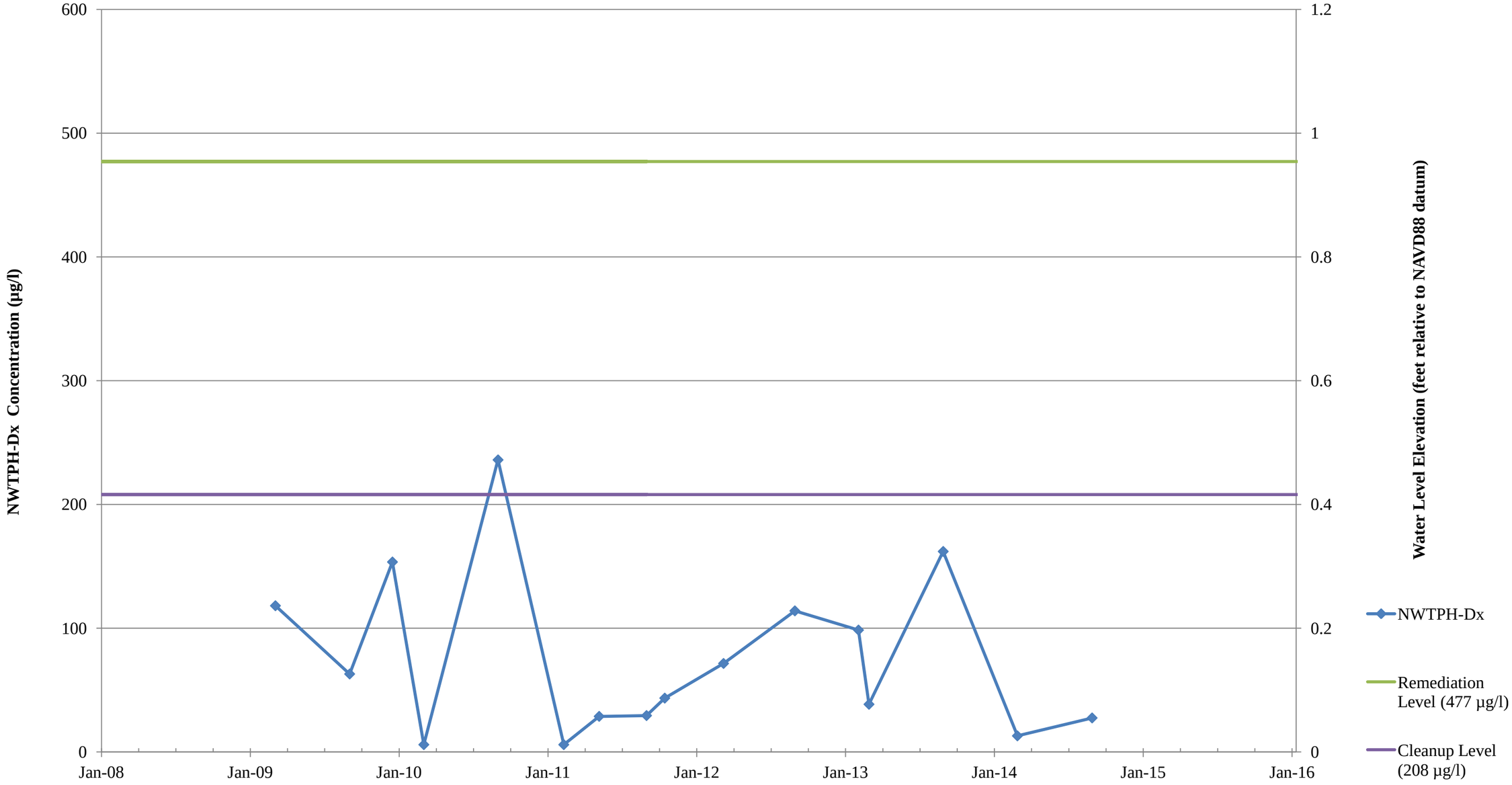
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S4-AD



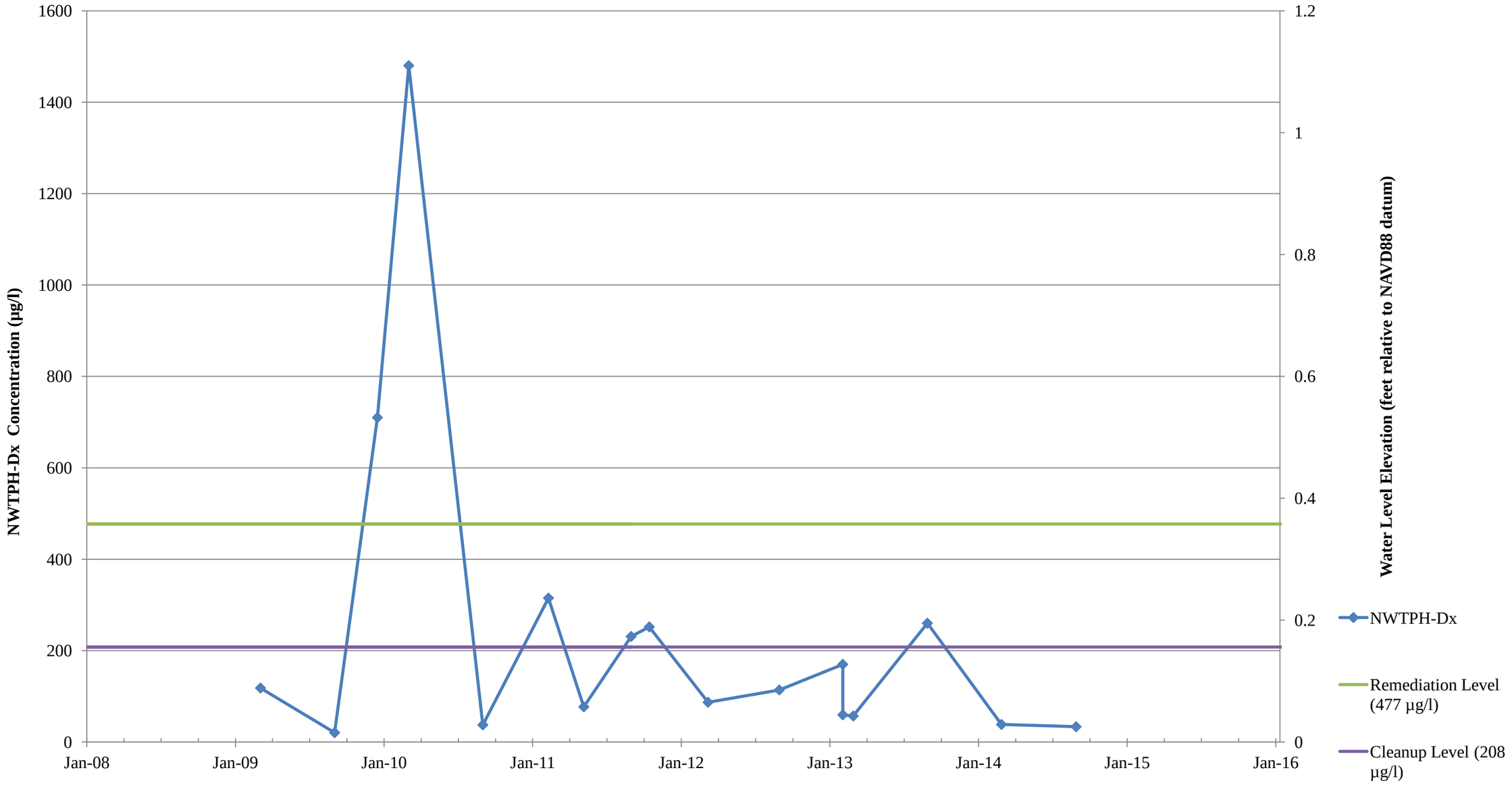
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S4-AU



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S4-BD



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S4-BU



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
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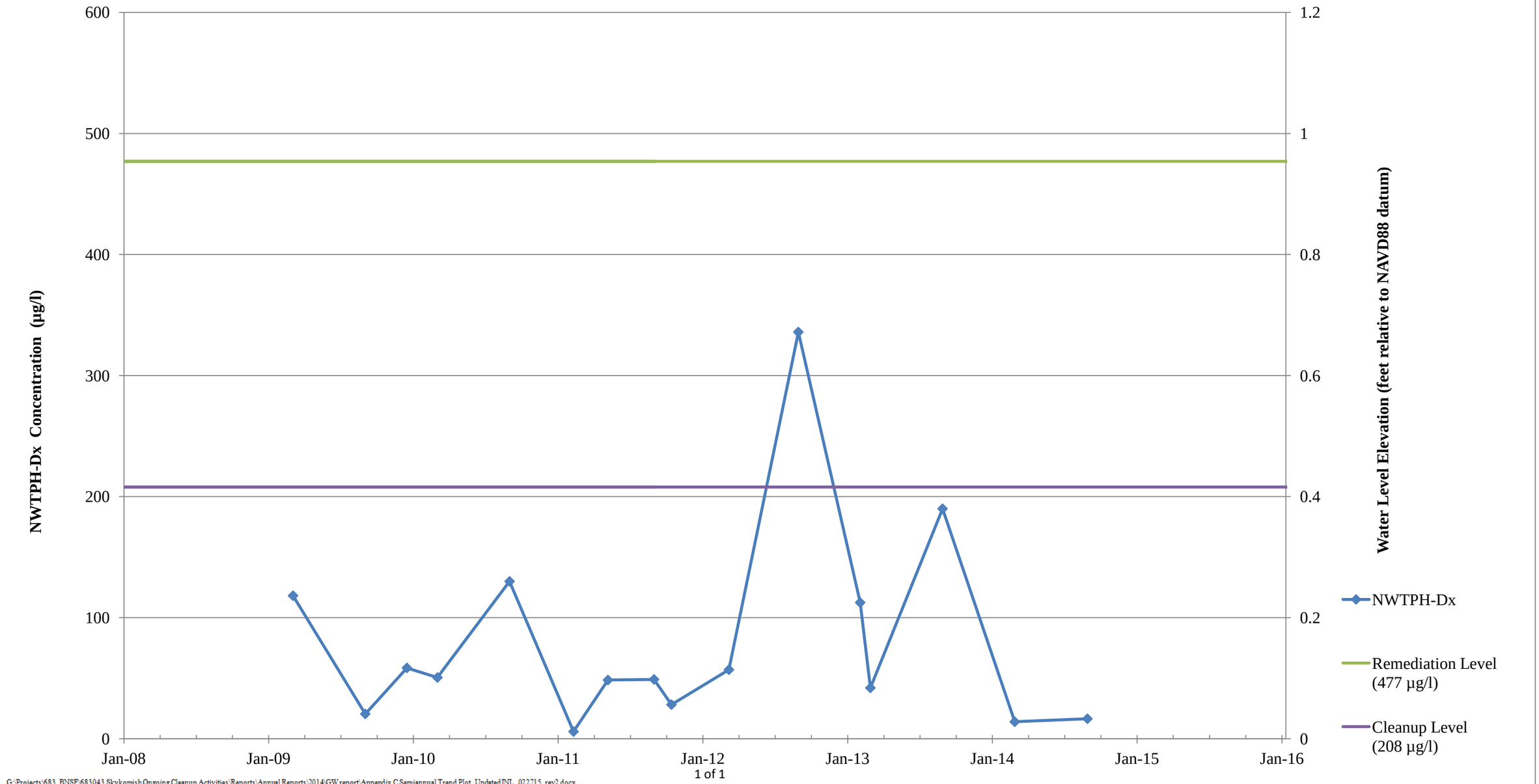

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S4-CU