HAHN AND ASSOCIATES, INC.

ENVIRONMENTAL CONSULTANTS

January 13, 2015

Ms. Krystal Rodriquez State of Washington Department of Ecology UST/Toxics Cleanup Program 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902

Ecology Cleanup File 9606 HAI Project No. 8755

SUBJECT: Findings Letter for October 2014 Soil and Pit Water Sampling Activities Former Heidi's Gas and Deli 320 E. Jewett Blvd., White Salmon, Washington

Dear Ms. Rodriguez:

Hahn and Associates, Inc. (HAI) has prepared this letter report to describe sampling activities performed by HAI at the above-referenced property in October 2014. These sampling activities were conducted to assess the quality of standing water within an open excavation as well as the quality of soils in select areas of the excavation, including a previously exposed petroleum underground storage tank (UST).

1.0 Background

Martin S. Burck Associates, Inc. (MSBA), on behalf of the current property owner, completed UST decommissioning activities at the property in September 2013. As documented in a 2014 MSBA report¹, gasoline-, diesel-, and oil-range petroleum hydrocarbons were detected in soil beneath the removed fuel dispenser island during decommissioning at concentrations above Washington Department of Ecology (Ecology) Model Toxic Control Act (MTCA) Method A Cleanup Levels as established for unrestricted property use.

MSBA initiated soil removal activities in the dispenser island area in November 2013, at which time a previously unknown 250-gallon UST (herein identified as "UST No. 1") was uncovered to the north of the former dispenser area, partially extending beneath the existing site structure (Figure 1). Soil samples collected by MSBA upon discovery confirmed a release from this small UST, with the release being attributed to gasoline-and oil-range petroleum hydrocarbons. MSBA hypothesized that this UST may have had more than one use over the years, but at some point, based on sampling of contents and underlying soil, was used to contain gasoline. Based on the small size and location of this UST (partially below the site structure), MSBA concluded that the previously undocumented tank was likely installed early in the history of the property. The release

¹ Martin S. Burck Associates, Inc. (2013). Underground Storage Tank Assessment and Closure Report, Former Heidi's Gas and Deli, 320 East Jewett Boulevard, White Salmon, Washington, Site ID #602 793 139, Tank ID #A4889. January 31, 2014.

associated with this UST was reported to Ecology in correspondence dated January 9, 2014.²

As described by MSBA, groundwater was not encountered during UST decommissioning or soil removal activities, and the vertical extend of soil contamination beneath the property was limited by the presence of competent bedrock, which was described as being present at depths between approximately 5 to 9 feet below ground surface (bgs) beneath the former fuel dispenser area.

The cited November 2013 MSBA report states that soil removal activities as related to the former dispenser island and the 250-gallon UST would be initiated in February 2014, at which time all cleanup activities at the site would be documented and provided to Ecology for review.

Based on a May 6, 2014 *Soil Sample Data Map* prepared by MSBA, in conjunction with a site visit conducted by HAI on October 21, 2014, it is understood that the abovedescribed 250-gallon UST has been decommissioned and removed from the site. It is understood that soil contamination as related to this UST has not yet been removed or otherwise remediated.

Based on available documentation provided by MSBA and the current property owner, either on or before February 13, 2014, representatives of the current property owner discovered a second UST with an estimated capacity of approximately 575-gallons (based on reported dimensions) at the property (Figure 1). This additional UST (herein identified as "UST No. 2") was similarly situated partially extending beneath the site structure, at a location east of the previously identified 250-gallon UST ("UST No. 1"). Based on the available laboratory report, the contents of UST 2, described as "water", were sampled by MSBA on February 13, 2014, with the laboratory reporting the presence of gasoline-and oil-range petroleum hydrocarbons within the water.

Based on available correspondence it does not appear that the property owner has reported the presence of UST No. 2 to Ecology. Further, there is no record of soils beneath this UST ever having been assessed for the presence of a release associated with this tank.

Figure 1 depicts the approximate location of the former fueling island area excavation, as well as UST No. 1 (former) and UST No. 2 (existing). Figure 1 also depicts that portion of the excavation containing water (western area; estimated to be approximately up to 3.5 feet deep), and the portion of the excavation that is dry (eastern area; estimated to be approximately 2 feet deep). According to a November 13, 2014 teleconference with MSBA and representatives of the property owner, the water within the pit is attributed to stormwater run-off that has accumulated within the pit over time as opposed to groundwater infiltration. Further, it was clarified that the eastern (shallow) area of excavation was related only to initial removal of overburden in preparation for the removal of underlying contaminated soil present in a thin band immediately above bedrock (e.g., 5 to 6 feet bgs) reportedly attributable to lateral migration from the UST No. 1 area.

² Correspondence from Brian D. Chenoweth (Chenoweth Law Group, PC) to Frosti Smith (Ecology), Bill Mason (City of White Salmon Planning), and Kevin Barry (Klickitat County Health Department. January 9, 2014.

Photograph 1 below depicts locations of UST No. 1 (former), UST No. 2 (existing), as well as the standing water within the excavation.



Photograph 1: October 21, 2014. View to north including cavities beneath building from UST Nos. 1 (former) and 2 (existing).

2.0 October 2014 Sampling Objectives

The objective of the work activities as described herein were to assess accessible soils beneath UST No. 2 to evaluate the presence and magnitude of a release as may be attributable to this tank. Further, because the open excavation contains water, a secondary objective was to test the water to ascertain the presence of petroleum contamination. Lastly, several near surface soil samples were collected for the purpose of evaluating the quality of accessible soils disturbed by previous excavation activities. Sampling activities and results as related to these project objectives are described in the following sections of this letter report.

3.0 Pit Water Sampling Activities and Findings

A sample of the pit water was collected by HAI on October 21, 2014 with the use of a new disposable polyethylene bailer. Water sampling activities were completed prior to any soil sampling activities to avoid disturbance to soils or the pit water prior to sample collection. The water sample was collected by lowering the bailer through the water column at a location approximately 15 feet south of the existing site structure. Approximately 8-inches of water were present within the excavation at the time of sampling. Nowhere did the pit water exhibit field screening evidence of contamination (e.g., no sheen or petroleum odor was noted).

The water sample was assigned sample number 8755-141021-101 and was submitted to Apex Laboratories, LLC of Portland, Oregon for the following analyses:

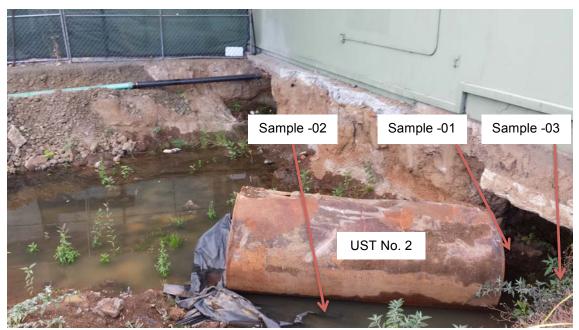
- Diesel- and oil-range hydrocarbons by NW Method TPH-Dx,
- Gasoline-range hydrocarbons by NW Method TPH-Gx, and
- Volatile Organic Compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method 8260B.

The laboratory report documenting results of the water sample testing is included within Attachment A. As provided on the report, diesel-, oil-, gasoline-range petroleum hydrocarbons, and VOCs were not detected in the sample of pit water at concentrations greater than laboratory method reporting limits (MRLs).

As described above, field screening and analytical testing of water standing within the open excavation detected no evidence of petroleum-related contamination.

4.0 UST No. 2 Area Soil Sampling Activities and Findings

Soil samples 8755-141021-01, -02, and -03 were all collected by HAI from soils immediately beneath the estimated former location of UST No. 2. Based on the position of UST No. 2 at the time of sampling relative to the adjacent cavity beneath the southeastern end of the site structure, it appears that the UST was dragged several feet to the south subsequent to its discovery such that it no longer extended beneath the building (Photograph 2). Figure 1 depicts the original location of UST No. 2, based on the observed soil cavity as well as information provided by MSBA.



Photograph 2: October 21, 2014. View to northwest showing UST No.2 and cavity beneath building from which it was extricated. Depicted sample locations are approximated.

Samples -01 and -03 were collected on the pit floor within the cavity beneath the site structure, while sample -02 was collected near the southern end of the UST as it would have been situated prior to removal from beneath the site structure. Samples -01

through -03 were collected through the water column within the pit, all at a depth of approximately 5 feet below the surrounding land surface. Sample locations are depicted on Figure 1.

Soil samples were collected with the use of a decontaminated stainless hand auger (-01 and -03) or trowel (-02). Samples were immediately transferred into glass jars, capped with Teflon-lined lids, and placed into a chilled cooler for transport to the analytical laboratory under chain-of-custody. Samples for gasoline-range petroleum hydrocarbon and VOC analyses were preserved in the field in accordance with EPA Method 5035 (Closed-System Purge-and-Trap). There was no field screening evidence of contamination (e.g., organic vapor headspace, discoloration, sheen, petroleum odor) noted at any of the three sample locations or within other observable soils proximate to UST No. 2.

Soil samples 8755-141021-01 through -03 were submitted to Apex Laboratories, LLC of Portland, Oregon for the following analyses:

- Diesel- and oil-range hydrocarbons by NW Method TPH-Dx,
- Gasoline-range hydrocarbons by NW Method TPH-Gx, and
- Benzene, toluene, ethylbenzene, xylene (BTEX) and naphthalene by U.S. Environmental Protection Agency (EPA) Method 8260B

The laboratory report documenting results of the soil sample testing is included within Attachment B, and results are summarized on Table 1.

As provided on Table 1, gasoline- and diesel-range petroleum hydrocarbons, BTEX, and naphthalene were not detected in soil samples -01 through -03 at concentrations greater than laboratory MRLs. Low levels of oil-range petroleum hydrocarbons were detected in sample -01 [81.2 milligrams per kilogram (mg/kg)] and -02 (56.7 mg/kg).

The detected oil-range petroleum hydrocarbon concentrations are well below the 2,000 mg/kg MTCA Method A Soil Cleanup Level as established by Ecology for unrestricted land use. Further, because of sporadic low-level oil-range petroleum hydrocarbons in the excavation (below MTCA Cleanup Levels) as previously documented by MSBA, it does not appear that the detected oil-range petroleum concentrations are attributable to a release from UST No. 2.

5.0 Open Excavation Area Soil Sampling Activities and Findings

Several soil samples were collected by HAI on October 21, 2014 from accessible areas within the excavation in order to assess the quality of exposed soils. Specifically, soil samples 8755-141021-04 through -10 were collected with use of a decontaminated stainless steel hand trowel from exposed soils at locations depicted on Figure 1. At all locations, the upper approximate two-inches of soil were removed in order to expose a fresh soil surface.

Field screening of soils at the time of collection suggested the presence of possible contamination at sample locations -06 (odor), -08 (odor and mild sheen), and -10 (odor, mild sheen, patchy discoloration). Exposed soils at no other sample locations exhibited field-screening evidence of potential contamination.

Soil samples 8755-141021-04 through -10 were submitted to Apex Laboratories, LLC of Portland, Oregon. Samples were analyzed for one or more of the following analyses:

- Diesel- and oil-range hydrocarbons by NW Method TPH-Dx,
- Gasoline-range hydrocarbons by NW Method TPH-Gx, and
- Benzene, toluene, ethylbenzene, xylene (BTEX) and naphthalene by U.S. Environmental Protection Agency (EPA) Method 8260B

The laboratory report documenting results of the soil sample testing is included within Attachment B, and results are summarized on Table 1.

As provided on Table 1, gasoline- and diesel-range petroleum hydrocarbons, BTEX, and naphthalene were not detected in any soil sample at concentrations greater than laboratory MRLs. Low levels of oil-range petroleum hydrocarbons were detected in sample -05 (155 mg/kg) and -08 (169 mg/kg).

The detected oil-range petroleum hydrocarbon concentrations are well below the 2,000 mg/kg MTCA Method A Soil Cleanup Level as established by Ecology for unrestricted land use. Low level oil-range petroleum hydrocarbons have similarly been reported by MSBA on behalf of the property owner. No oil-range petroleum hydrocarbon concentrations, either as documented herein by HAI or as previously documented by MSBA, have been detected in soil at levels of concern.

6.0 Conclusions

Based on HAI field activities as conducted on October 21, 2014 the following conclusions are provided:

- Field screening and analytical testing of standing water within the open excavation did not detect contamination by petroleum hydrocarbons or volatile organic compounds.
- Sampling of soils near the location of UST No. 2 did not detect the presence of contamination as would appear attributable to a release from UST No. 2.
- Four of 8 soil samples collected from the open excavation detected low-level concentrations of oil-range petroleum hydrocarbons, but all at concentrations well below MTCA Method A Cleanup Levels for Unrestricted Land Use.

Based on review of January 9, 2014 correspondence to Ecology and as discussed during a November 13 teleconference with MSBA, it is understood that the property owner intends removal of an additional volume of soil immediately south of the former fuel island to complete cleanup related to releases from that area. Further, it is understood that soil removal activities as related to the formerly undocumented UST No. 1, both beneath the existing structure and extending above bedrock to the east-southeast remain necessary and are similarly being planned for completion by the current property owner.

No documentation of property owner plans to decommission and remove UST No. 2 from the property have been noted by HAI at this time, although it is presumed such an activity would occur prior to the planned UST No.1-related soil removal. Figure 1 depicts the general location of remaining areas of soil removal at the site, based on HAI's

understanding of site conditions as described by MSBA, in conjunction with the October 21, 2014 sampling results as described herein.

If you have any questions or comments regarding this report, please do not hesitate to contact me at 503.796.0717.

Sincerely Rob Ede, L.G. Principal

Ben Une

Ben Uhl Field Manager, WA Site Assessor

cc: Mr. James Kacena, Law Office of James L. Kacena, PLLC Ms. Patty Dost, Pearl Legal Group, PC Mr. Brooks Foster, Chenoweth Law Group PC

Attachments (2):

Table 1 - Summary of October 21, 2014 Soil Testing Results Figure 1 - Gasoline-Range Petroleum Hydrocarbons in Soil Attachment A – Chain of Custody and Laboratory Report – October 21, 2014 Pit Water Sample Attachment B – Chain of Custody and Laboratory Report, October 21, 2014 Soil Samples

TABLE 1 – Summary of October 21, 2014 Soil Testing Results

| Soil Reference Lev | rels ¹ in mg/kg | | | Gasoline | Diesel | Oil | Benzene | Toluene | Ethylbe |
|---------------------|-----------------------------------|----------------------|------------------|-----------|--------|--------|---------|---------|------------|
| | Method A Soil Cleanup L | evels for Unrestrict | ed Land Uses ==> | 30. | 2,000. | 2,000. | 0.03 | 7. | 6. |
| Soil Testing Result | t s in mg/kg | | | | | | | | |
| Sample Location | Sample | Sample Date | Sample Depth | NW TPH-Gx | NW T | PH-Dx | | | EPA Method |

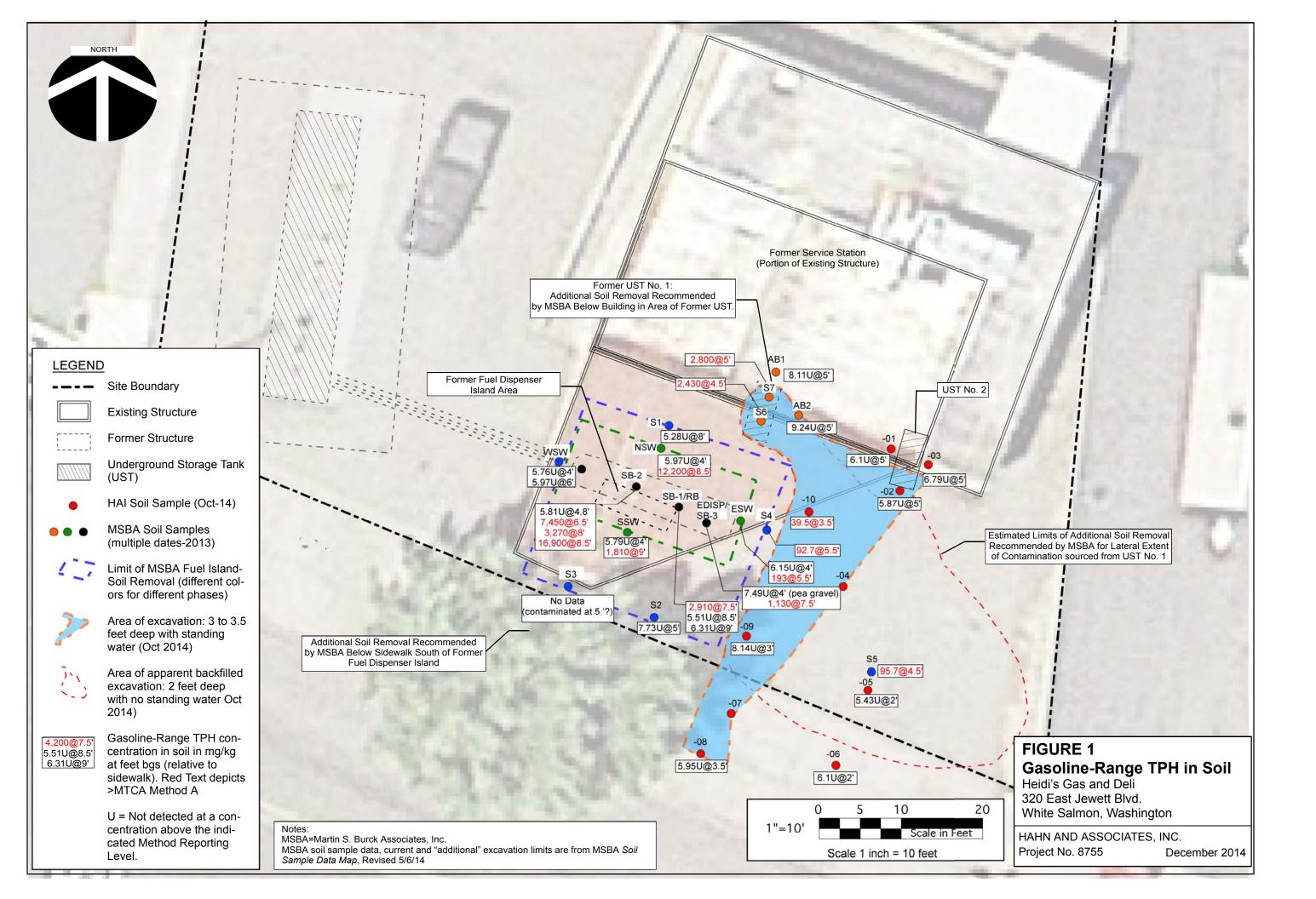
| Soil Reference Level | s¹ in mg/kg | | | Gasoline | Diesel | Oil | Benzene | Toluene | Ethylbenzene | Xylenes | Naphthalene |
|----------------------|-----------------------|----------------------|------------------|-----------|--------------|-----------|----------|----------|------------------|----------|-------------|
| | Method A Soil Cleanup | Levels for Unrestric | ed Land Uses ==> | 30. | 2,000. | 2,000. | 0.03 | 7. | 6. | 9. | |
| Soil Testing Results | in mg/kg | | | | | | | | | | |
| Sample Location | Sample | Sample Date | Sample Depth | NW TPH-Gx | NW T | PH-Dx | | | EPA Method 8260B | | |
| | Number | | (feet bgs) | Gasoline | Diesel-Range | Oil-Range | Benzene | Toluene | Ethylbenzene | Xylenes | Naphthalene |
| -01 | 8755-141021-01 | 21-Oct-14 | 5.0 - 5.25 | 6.1 L | 25. U | 81.2 | 0.0153 U | 0.061 U | 0.0305 U | 0.0915 U | 0.061 U |
| -02 | 8755-141021-02 | 21-Oct-14 | 5.0 - 5.25 | 5.87 L | 25. U | 56.7 | 0.0147 U | 0.0587 U | 0.0294 U | 0.0881 U | 0.0587 U |
| -03 | 8755-141021-03 | 21-Oct-14 | 5.0 - 5.25 | 6.79 L | 25. U | 50. U | 0.017 U | 0.0679 U | 0.0339 U | 0.102 U | 0.0679 U |
| -04 | 8755-141021-04 | 21-Oct-14 | 3.0 - 3.25 | NT | NT | NT | 0.0147 U | 0.0586 U | 0.0293 U | 0.088 U | 0.0586 U |
| -05 | 8755-141021-05 | 21-Oct-14 | 2.0 - 2.25 | 5.43 L | 25. U | 155. | 0.0136 U | 0.0543 U | 0.0272 U | 0.0815 U | 0.0543 U |
| -06 | 8755-141021-06 | 21-Oct-14 | 2.0 - 2.25 | 6.1 L | 25. U | 50. U | 0.0153 U | 0.061 U | 0.0305 U | 0.0916 U | 0.061 U |
| -07 | 8755-141021-07 | 21-Oct-14 | 3.0 - 3.25 | NT | NT | NT | 0.0149 U | 0.0597 U | 0.0298 U | 0.0895 U | 0.0697 U |
| -08 | 8755-141021-08 | 21-Oct-14 | 3.5 - 3.75 | 5.95 L | 25. U | 169. | 0.0149 U | 0.0595 U | 0.0297 U | 0.0892 U | 0.0597 U |
| -09 | 8755-141021-09 | 21-Oct-14 | 3.0 - 3.25 | 8.14 L | 25. U | 50. U | 0.0204 U | 0.0814 U | 0.0407 U | 0.122 U | 0.0814 U |
| -10 | 8755-141021-10 | 21-Oct-14 | 3.5 - 3.75 | 39.5 L | 25. U | 50. U | 0.0178 U | 0.0712 U | 0.0356 U | 0.107 U | 0.0712 U |

Notes:

bgs = below ground surface EPA = U.S. Environmental Protection Agency Dx = diesel- and oil-range hydrocarbons Gx = gasoline-range hydrocarbons

mg/kg = milligrams per kilogram NT = not tested NW = Northwest Method TPH = total petroleum hydrocarbons U = not detected above indicated method reporting level

1 = Model Toxics Control Act (MTCA) Method A Cleanup Levels (WAC 173-340-900), November 2007 Bold and Highlighted = Exceeds MTCA Method A Cleanup Level for Unrestricted Land Use



ATTACHMENT A

Laboratory Analytical Reports and Chain-of-Custody Documentation October 21, 2014 Pit Water Sample



Friday, November 7, 2014

Rob Ede Hahn and Associates 434 NW 6th Ave. Suite 203 Portland, OR 97209

RE: White Salmon / 8755

Enclosed are the results of analyses for work order <u>A4J0686</u>, which was received by the laboratory on 10/23/2014 at 4:00:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>pnerenberg@apex-labs.com</u>, or by phone at 503-718-2323.

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



| Hahn and Associates | Project: White Salmon | |
|---------------------------|-------------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/07/14 10:42 |
| | ANALYTICAL REPORT FOR SAMPLES | |

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| SAMPLE INFORMATION | | | | | | |
|--------------------|---------------|--------|----------------|----------------|--|--|
| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received | | |
| 8755-141021-101 | A4J0686-03 | Water | 10/21/14 12:00 | 10/23/14 16:00 | | |

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



| Project: White Salmon | |
|--------------------------|----------------------|
| Project Number: 8755 | Reported: |
| Project Manager: Rob Ede | 11/07/14 10:42 |
| | Project Number: 8755 |

ANALYTICAL SAMPLE RESULTS

| | Diesel and Oil Hydrocarbons by NWTPH-Dx | | | | | | | | |
|-------------------------------|---|-----|---------------------------------------|----------------|-------------|----------------|----------|-------|--|
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Date Analyzed | Method | Notes | |
| 8755-141021-101 (A4J0686-03) | | | Matrix: Wate | er Ba | atch: 41007 | /65 | | | |
| Diesel | ND | | 0.200 | mg/L | 1 | 10/28/14 02:32 | NWTPH-Dx | | |
| Oil | ND | | 0.400 | " | " | " | " | | |
| Surrogata: a Tarphanul (Surr) | | Pag | 0.00000000000000000000000000000000000 | nite: 50 150 % | < " | " | " | | |

Surrogate: o-Terphenyl (Surr)

Recovery: 98 % Limits: 50-150 %

Apex Laboratories

Philip Neemberg

Philip Nerenberg, Lab Director



| Hahn and Associates | Project: White Salmon | |
|---------------------------|--------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/07/14 10:42 |

ANALYTICAL SAMPLE RESULTS

| Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx | | | | | | | | |
|---|----------|-----|--------------------|------------------|-----------|----------------|---------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Date Analyzed | Method | Notes |
| 8755-141021-101 (A4J0686-0 |)3) | | Matrix: W | later Bat | ch: 41007 | 60 | | |
| Gasoline Range Organics | ND | | 0.100 | mg/L | 1 | 10/28/14 17:40 | NWTPH-Gx (MS) | |
| Surrogate: 4-Bromofluorobenzen | ne (Sur) | Rec | overy: 99 % | Limits: 50-150 % | " | " | " | |
| 1,4-Difluorobenzene (| (Sur) | | 90 % | Limits: 50-150 % | " | " | " | |

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director

| Hahn and Associates | Project: Wh | nite Salmon | |
|---------------------------|----------------------|-------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 875 | 5 | Reported: |
| Portland, OR 97209 | Project Manager: Rob | o Ede | 11/07/14 10:42 |

ANALYTICAL SAMPLE RESULTS

| | Volatile C | Organic Compo | bunds | by EPA 8260 | DB | | |
|--------|--|--|---|--|---|---|--|
| | | Reporting | | | | | |
| Result | MDL | | Units | Dilution | Date Analyzed | Method | Notes |
| | | Matrix: Water | | Batch: 41007 | 760 | | |
| ND | | 20.0 | ug/L | 1 | 10/28/14 17:40 | EPA 8260B | |
| ND | | 0.250 | " | | " | " | |
| ND | | 0.500 | " | | " | " | |
| ND | | 1.00 | " | | " | " | |
| ND | | 1.00 | " | | " | " | |
| ND | | 1.00 | | | " | " | |
| ND | | 5.00 | " | | " | " | Q-31 |
| ND | | 10.0 | " | | " | " | |
| ND | | 1.00 | | | " | " | |
| ND | | 1.00 | | | " | " | |
| ND | | 1.00 | | | " | " | |
| ND | | 0.500 | | | " | " | |
| ND | | 0.500 | | | " | " | |
| ND | | 5.00 | | | " | " | |
| ND | | 1.00 | | | " | " | |
| ND | | 5.00 | | | " | " | E-03 |
| ND | | 1.00 | | | " | " | |
| ND | | 1.00 | | | " | " | |
| ND | | 5.00 | | | " | " | |
| ND | | 1.00 | " | | " | | |
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| | Result ND ND ND ND ND ND ND ND ND ND ND ND ND | Result MDL ND ND <td< td=""><td>Result MDL Reporting Limit ND 20.0 ND 0.250 ND 0.500 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 5.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 0.500 ND 0.500 ND 5.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 0.500 ND 0.500 ND</td><td>Result MDL Reporting Limit Units ND 20.0 ug/L ND 0.250 " ND 0.500 " ND 0.500 " ND 1.00 " ND 1.00 " ND 1.00 " ND 5.00 " ND 1.00 " ND 5.00 " ND 1.00 "</td><td>Result MDL Reporting Limit Units Dilution Matrix: Water Batch: 41007 ND 20.0 ug/L 1 ND 0.250 " " ND 0.500 " " ND 1.00 " " ND 5.00 " " ND 5.00 " " ND 5.00 " " ND 5.00 " " <!--</td--><td>ResultMDILimitUnitsDilutionDate AnalyzedND20.0ug/L110/28/1417:40ND0.250"""ND0.250"""ND0.500"""ND1.00"""ND1.00"""ND1.00"""ND5.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND0.500"""ND0.500"""ND5.00"""ND5.00"""ND5.00"""ND1.00"""ND5.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND</td><td>Reporting Emporting Dilution Date Analyzed Method MDL Limit Units Dilution Date Analyzed Method ND 20.0 ug/L 1 10/28/1417:40 EPA 8260B ND 0.500 " " " " ND 0.500 " " " " ND 0.500 " " " " ND 1.00 " " " " ND 0.500 " " " " ND 0.500 " "</td></td></td<> | Result MDL Reporting Limit ND 20.0 ND 0.250 ND 0.500 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 5.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 0.500 ND 0.500 ND 5.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 0.500 ND 0.500 ND | Result MDL Reporting Limit Units ND 20.0 ug/L ND 0.250 " ND 0.500 " ND 0.500 " ND 1.00 " ND 1.00 " ND 1.00 " ND 5.00 " ND 1.00 " ND 5.00 " ND 1.00 " | Result MDL Reporting Limit Units Dilution Matrix: Water Batch: 41007 ND 20.0 ug/L 1 ND 0.250 " " ND 0.500 " " ND 1.00 " " ND 5.00 " " ND 5.00 " " ND 5.00 " " ND 5.00 " " </td <td>ResultMDILimitUnitsDilutionDate AnalyzedND20.0ug/L110/28/1417:40ND0.250"""ND0.250"""ND0.500"""ND1.00"""ND1.00"""ND1.00"""ND5.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND0.500"""ND0.500"""ND5.00"""ND5.00"""ND5.00"""ND1.00"""ND5.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND</td> <td>Reporting Emporting Dilution Date Analyzed Method MDL Limit Units Dilution Date Analyzed Method ND 20.0 ug/L 1 10/28/1417:40 EPA 8260B ND 0.500 " " " " ND 0.500 " " " " ND 0.500 " " " " ND 1.00 " " " " ND 0.500 " " " " ND 0.500 " "</td> | ResultMDILimitUnitsDilutionDate AnalyzedND20.0ug/L110/28/1417:40ND0.250"""ND0.250"""ND0.500"""ND1.00"""ND1.00"""ND1.00"""ND5.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND0.500"""ND0.500"""ND5.00"""ND5.00"""ND5.00"""ND1.00"""ND5.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND1.00"""ND | Reporting Emporting Dilution Date Analyzed Method MDL Limit Units Dilution Date Analyzed Method ND 20.0 ug/L 1 10/28/1417:40 EPA 8260B ND 0.500 " " " " ND 0.500 " " " " ND 0.500 " " " " ND 1.00 " " " " ND 0.500 " " " " ND 0.500 " " |

Apex Laboratories

Philip Nevenberg

| Hahn and Associates | Project: White Salmon | |
|---------------------------|--------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/07/14 10:42 |

ANALYTICAL SAMPLE RESULTS

| | | volatile C | | mpounds b | Y EPA 826 | 1R | | |
|------------------------------------|--------|------------|--------------|----------------|--------------|---------------|-----------|-------|
| | | | Reporting | | | | | |
| Analyte | Result | MDL | Limit | Units | Dilution | Date Analyzed | Method | Notes |
| 8755-141021-101 (A4J0686-03) | | | Matrix: W | later E | Batch: 41007 | 760 | | |
| cis-1,3-Dichloropropene | ND | | 1.00 | ug/L | 1 | " | EPA 8260B | |
| trans-1,3-Dichloropropene | ND | | 1.00 | " | " | " | " | |
| Ethylbenzene | ND | | 0.500 | " | " | " | " | |
| Hexachlorobutadiene | ND | | 5.00 | " | " | " | " | |
| 2-Hexanone | ND | | 10.0 | " | " | " | " | |
| Isopropylbenzene | ND | | 1.00 | " | " | " | " | |
| 4-Isopropyltoluene | ND | | 1.00 | " | " | " | " | |
| 4-Methyl-2-pentanone (MiBK) | ND | | 10.0 | " | " | " | " | |
| Methyl tert-butyl ether (MTBE) | ND | | 1.00 | " | " | " | " | |
| Methylene chloride | ND | | 5.00 | " | " | " | " | |
| Naphthalene | ND | | 2.00 | " | " | " | " | |
| n-Propylbenzene | ND | | 0.500 | " | " | " | " | |
| Styrene | ND | | 1.00 | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | | 0.500 | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | | 0.500 | " | " | " | " | |
| Tetrachloroethene (PCE) | ND | | 0.500 | " | " | " | " | |
| Toluene | ND | | 1.00 | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | | 2.00 | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | | 2.00 | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | | 0.500 | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | | 0.500 | " | " | " | " | |
| Trichloroethene (TCE) | ND | | 0.500 | " | " | " | " | |
| Trichlorofluoromethane | ND | | 2.00 | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | | 1.00 | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | | 1.00 | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | | 1.00 | " | " | " | " | |
| Vinyl chloride | ND | | 0.500 | " | " | " | " | |
| m,p-Xylene | ND | | 1.00 | " | " | " | " | |
| o-Xylene | ND | | 0.500 | " | " | " | " | |
| Surrogate: Dibromofluoromethane (S | Surr) | Ree | covery: 93 % | Limits: 80-120 | % " | " | " | |
| 1,4-Difluorobenzene (Sur | | | 97 % | Limits: 80-120 | % " | " | " | |
| Toluene-d8 (Surr) | | | 94 % | Limits: 80-120 | % " | " | " | |
| 4-Bromofluorobenzene (S | urr) | | 97 % | Limits: 80-120 | % " | " | " | |

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Philip Nevenberg

Philip Nerenberg, Lab Director

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| Hahn and Associates | Project: White Salmon | |
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| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/07/14 10:42 |
| | | |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | Di | iesel and (| Dil Hydro | ocarbon | s by NW | TPH-Dx | | | | | |
|--------------------------|--------|------|--------------------|-----------|------------|-----------------|------------------|------------|----------------|---|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | | RPD Limit | Notes |
| Batch 4100765 - EPA 35 | | | | Wa | ter | | | | | | | |
| Blank (4100765-BLK1) | | | | Prepa | red: 10/27 | /14 15:04 | Analyzed | : 10/27/14 | 21:23 | | | |
| NWTPH-Dx | | | | | | | | | | | | |
| Diesel | ND | | 0.182 | mg/L | 1 | | | | | | | |
| Oil | ND | | 0.364 | " | " | | | | | | | |
| Surr: o-Terphenyl (Surr) | | Reco | overy: 88 % | Limits: 5 | 50-150 % | Dil | lution: 1x | | | | | |
| LCS (4100765-BS1) | | | | Prepa | red: 10/27 | /14 15:04 | Analyzed | : 10/27/14 | 21:46 | | | |
| NWTPH-Dx | | | | | | | | | | | | |
| Diesel | 1.09 | | 0.200 | mg/L | 1 | 1.25 | | 87 5 | 58-115% | | | |
| Surr: o-Terphenyl (Surr) | | Reco | overy: 89 % | Limits: 5 | 50-150 % | Dil | lution: 1x | | | | | |
| LCS Dup (4100765-BSD1) | | | | Prepa | red: 10/27 | /14 15:04 | Analyzed | : 10/27/14 | 22:10 | | | Q-19 |
| NWTPH-Dx | | | | | | | | | | | | |
| Diesel | 1.12 | | 0.200 | mg/L | 1 | 1.25 | | 90 5 | 58-115% | 3 | 20% | |
| Surr: o-Terphenyl (Surr) | | Reco | overy: 88 % | Limits: 5 | 50-150 % | Dil | lution: 1x | | | | | |

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Philip Nerenberg, Lab Director

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| Hahn and Associates | Project: | White Salmon | |
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| 434 NW 6th Ave. Suite 203 | Project Number: | 8755 | Reported: |
| Portland, OR 97209 | Project Manager: | Rob Ede | 11/07/14 10:42 |
| | OUALITY CONTROL ((| OC) SAMPLE RESULTS | |

QUALITY CONTROL (QC) SAMPLE RESULTS

| Gas | oline Ra | inge Hyd | drocarbor | s (Benzene through Naphthalene) by NWTPH-Gx | | | | | | | | |
|----------------------------------|-----------|----------|--------------------|---|------------|-----------------|------------------|------------|----------------|-----|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100760 - EPA 503 | 30B | | | | | | Wat | ter | | | | |
| Blank (4100760-BLK1) | | | | Prepa | red: 10/28 | 8/14 10:00 | Analyzed: | : 10/28/14 | 16:15 | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | ND | | 0.100 | mg/L | 1 | | | | | | | |
| Surr: 4-Bromofluorobenzene (Sur) |) | Reco | very: 97 % | Limits: 5 | 0-150 % | Dil | ution: 1x | | | | | |
| 1,4-Difluorobenzene (Sur) | | | 89 % | 5 | 0-150 % | | " | | | | | |
| LCS (4100760-BS2) | | | | Prepa | red: 10/28 | 8/14 10:00 | Analyzed: | : 10/28/14 | 15:47 | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | 0.463 | | 0.100 | mg/L | 1 | 0.500 | | 93 | 70-130% | | | |
| Surr: 4-Bromofluorobenzene (Sur) |) | Reco | very: 97 % | Limits: 5 | 0-150 % | Dil | ution: 1x | | | | | |
| 1,4-Difluorobenzene (Sur) | | | 97 % | 5 | 0-150 % | | " | | | | | |
| Duplicate (4100760-DUP1) | | | | Prepar | red: 10/28 | 8/14 15:49 | Analyzed: | : 10/28/14 | 18:08 | | | |
| QC Source Sample: 8755-141021 | -101 (A4J | 0686-03) | | | | | | | | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | ND | | 0.100 | mg/L | 1 | | ND | | | | 30% | |
| Surr: 4-Bromofluorobenzene (Sur) |) | Reco | very: 98 % | Limits: 5 | 0-150 % | Dil | ution: 1x | | | | | |
| 1,4-Difluorobenzene (Sur) | | | 90 % | 5 | 0-150 % | | " | | | | | |

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Philip Nerenberg, Lab Director

| Hahn and Associates | Project: White Salmon | |
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| Portland, OR 97209 | Project Manager: Rob Ede | 11/07/14 10:42 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| Volatile Organic Compounds by EPA 8260B | | | | | | | | | | | | |
|---|----------|-----|--------------------|-------|------------|-----------------|------------------|------------|----------------|-----|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100760 - EPA 50 | 30B | | | | | | Wa | ter | | | | |
| Blank (4100760-BLK1) | | | | Prepa | red: 10/28 | 8/14 10:00 | Analyzed | : 10/28/14 | 16:15 | | | |
| EPA 8260B | | | | · · · | | | | | | | | |
| Acetone | ND | | 20.0 | ug/L | 1 | | | | | | | |
| Benzene | ND | | 0.250 | " | | | | | | | | |
| Bromobenzene | ND | | 0.500 | | | | | | | | | |
| Bromochloromethane | ND | | 1.00 | | " | | | | | | | |
| Bromodichloromethane | ND | | 1.00 | | | | | | | | | |
| Bromoform | ND | | 1.00 | | | | | | | | | |
| Bromomethane | ND | | 5.00 | " | | | | | | | | Q-31 |
| 2-Butanone (MEK) | ND | | 10.0 | " | | | | | | | | |
| n-Butylbenzene | ND | | 1.00 | " | | | | | | | | |
| sec-Butylbenzene | ND | | 1.00 | | | | | | | | | |
| tert-Butylbenzene | ND | | 1.00 | " | " | | | | | | | |
| Carbon tetrachloride | ND | | 0.500 | | | | | | | | | |
| Chlorobenzene | ND | | 0.500 | | | | | | | | | |
| Chloroethane | ND | | 5.00 | | | | | | | | | |
| Chloroform | ND | | 1.00 | | | | | | | | | |
| Chloromethane | ND | | 5.00 | | | | | | | | | E-03 |
| 2-Chlorotoluene | ND | | 1.00 | | | | | | | | | |
| 4-Chlorotoluene | ND | | 1.00 | " | | | | | | | | |
| 1,2-Dibromo-3-chloropropa | ND | | 5.00 | | " | | | | | | | |
| ne Dibromochloromethane | ND | | 1.00 | | " | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | | 0.500 | | " | | | | | | | |
| Dibromomethane | ND | | 1.00 | | " | | | | | | | |
| 1,2-Dichlorobenzene | ND | | 0.500 | | " | | | | | | | |
| 1,3-Dichlorobenzene | ND ND | | 0.500 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND ND | | 0.500 | " | | | | | | | | |
| Dichlorodifluoromethane | ND ND | | 1.00 | " | " | | | | | | | |
| 1,1-Dichloroethane | | | | " | " | | | | | | | |
| | ND | | 0.500 | " | " | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | | 0.500 | | | | | | | | | |
| 1,1-Dichloroethene | ND | | 0.500 | | | | | | | | | |

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| Portland, OR 97209 | Project Manager: Rob Ede | 11/07/14 10:42 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| Volatile Organic Compounds by EPA 8260B | | | | | | | | | | | | |
|---|--------|-----|--------------------|-------|------------|-----------------|------------------|------------|----------------|-----|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100760 - EPA 5 | 030B | | | | | | Wa | ter | | | | |
| Blank (4100760-BLK1) | | | | Prepa | red: 10/28 | 8/14 10:00 | Analyzed | : 10/28/14 | 16:15 | | | |
| cis-1,2-Dichloroethene | ND | | 0.500 | ug/L | " | | | | | | | |
| trans-1,2-Dichloroethene | ND | | 0.500 | " | " | | | | | | | |
| 1,2-Dichloropropane | ND | | 0.500 | " | " | | | | | | | |
| 1,3-Dichloropropane | ND | | 1.00 | " | " | | | | | | | |
| 2,2-Dichloropropane | ND | | 1.00 | " | " | | | | | | | |
| 1,1-Dichloropropene | ND | | 1.00 | " | " | | | | | | | |
| cis-1,3-Dichloropropene | ND | | 1.00 | " | " | | | | | | | |
| trans-1,3-Dichloropropene | ND | | 1.00 | " | " | | | | | | | |
| Ethylbenzene | ND | | 0.500 | " | " | | | | | | | |
| Hexachlorobutadiene | ND | | 5.00 | | " | | | | | | | |
| 2-Hexanone | ND | | 10.0 | " | " | | | | | | | |
| Isopropylbenzene | ND | | 1.00 | | " | | | | | | | |
| 4-Isopropyltoluene | ND | | 1.00 | " | " | | | | | | | |
| 4-Methyl-2-pentanone (MiBK) | ND | | 10.0 | " | " | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | | 1.00 | " | " | | | | | | | |
| Methylene chloride | ND | | 5.00 | " | " | | | | | | | |
| Naphthalene | ND | | 2.00 | | " | | | | | | | |
| n-Propylbenzene | ND | | 0.500 | | " | | | | | | | |
| Styrene | ND | | 1.00 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | | 0.500 | " | " | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | | 0.500 | " | " | | | | | | | |
| Tetrachloroethene (PCE) | ND | | 0.500 | " | " | | | | | | | |
| Toluene | ND | | 1.00 | " | " | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | | 2.00 | " | " | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | | 2.00 | " | " | | | | | | | |
| 1,1,1-Trichloroethane | ND | | 0.500 | " | " | | | | | | | |
| 1,1,2-Trichloroethane | ND | | 0.500 | " | " | | | | | | | |
| Trichloroethene (TCE) | ND | | 0.500 | " | " | | | | | | | |
| Trichlorofluoromethane | ND | | 2.00 | " | " | | | | | | | |
| 1,2,3-Trichloropropane | ND | | 1.00 | | " | | | | | | | |

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| Hahn and Associates | Project: White Salmon | |
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| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/07/14 10:42 |
| k | | |

QUALITY CONTROL (QC) SAMPLE RESULTS

| Volatile Organic Compounds by EPA 8260B | | | | | | | | | | | | |
|---|--------|-----|--------------------|-----------|-----------|-----------------|------------------|-----------|----------------|-----|--------------|-----------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100760 - EPA 5 | 030B | | | | | | Wa | ter | | | | |
| Blank (4100760-BLK1) | | | | Prepar | ed: 10/28 | 3/14 10:00 | Analyzed | : 10/28/1 | 4 16:15 | | | |
| 1,2,4-Trimethylbenzene | ND | | 1.00 | " | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | | 1.00 | " | " | | | | | | | |
| Vinyl chloride | ND | | 0.500 | " | " | | | | | | | |
| m,p-Xylene | ND | | 1.00 | " | " | | | | | | | |
| o-Xylene | ND | | 0.500 | " | " | | | | | | | |
| Surr: Dibromofluoromethane (S | Surr) | Rec | overy: 90 % | Limits: 8 | 0-120 % | Dil | ution: 1x | | | | | |
| 1,4-Difluorobenzene (Surr) | | | 95 % | | 0-120 % | | " | | | | | |
| Toluene-d8 (Surr) |) | | 94 % 04 % | |)-120 % | | " | | | | | |
| 4-Bromofluorobenzene (Si | urr) | | 94 % | 80 | 0-120 % | | | | | | | |
| LCS (4100760-BS1) | | | | Prepar | ed: 10/28 | 3/14 10:00 | Analyzed | : 10/28/1 | 4 15:19 | | | |
| EPA 8260B | | | | | | | | | | | | |
| Acetone | 44.1 | | 20.0 | ug/L | 1 | 40.0 | | 110 | 70-130% | | | |
| Benzene | 18.0 | | 0.250 | " | " | 20.0 | | 90 | | | | |
| Bromobenzene | 19.1 | | 0.500 | " | " | " | | 96 | | | | |
| Bromochloromethane | 17.2 | | 1.00 | " | " | " | | 86 | | | | |
| Bromodichloromethane | 19.1 | | 1.00 | " | " | " | | 96 | | | | |
| Bromoform | 20.8 | | 1.00 | " | " | | | 104 | | | | |
| Bromomethane | 7.86 | | 5.00 | " | | " | | 39 | | | | Q-31 |
| 2-Butanone (MEK) | 37.4 | | 10.0 | " | " | 40.0 | | 94 | | | | |
| n-Butylbenzene | 18.2 | | 1.00 | " | " | 20.0 | | 91 | | | | |
| sec-Butylbenzene | 18.6 | | 1.00 | " | " | " | | 93 | | | | |
| tert-Butylbenzene | 19.0 | | 1.00 | " | " | " | | 95 | | | | |
| Carbon tetrachloride | 22.1 | | 0.500 | " | " | " | | 111 | | | | |
| Chlorobenzene | 19.7 | | 0.500 | " | | " | | 99 | " | | | |
| Chloroethane | 16.8 | | 5.00 | " | | " | | 84 | " | | | |
| Chloroform | 18.7 | | 1.00 | " | | " | | 94 | | | | |
| Chloromethane | 49.0 | | 5.00 | " | | " | | 245 | | | | E-03, Q-4 |
| 2-Chlorotoluene | 19.0 | | 1.00 | " | | " | | 95 | " | | | |
| 4-Chlorotoluene | 18.9 | | 1.00 | " | " | " | | 94 | " | | | |
| 1,2-Dibromo-3-chloropropa ne | 17.9 | | 5.00 | " | " | " | | 90 | " | | | |

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| Hahn and Associates | Project: White Salmon | |
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| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/07/14 10:42 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | V | olatile Org | anic Cor | npoun | ds by EPA | A 8260B | | | | | |
|-----------------------------------|--------|-----|--------------------|----------|-----------|-----------------|------------------|------------|----------------|-----|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100760 - EPA 5 | 030B | | | | | | Wa | ter | | | | |
| LCS (4100760-BS1) | | | | Prepa | red: 10/2 | 8/14 10:00 | Analyzed | : 10/28/14 | 15:19 | | | |
| Dibromochloromethane | 21.0 | | 1.00 | ug/L | " | " | | 105 | " | | | |
| 1,2-Dibromoethane (EDB) | 20.1 | | 0.500 | " | " | " | | 100 | | | | |
| Dibromomethane | 18.6 | | 1.00 | " | " | " | | 93 | " | | | |
| 1,2-Dichlorobenzene | 19.4 | | 0.500 | " | " | " | | 97 | | | | |
| 1,3-Dichlorobenzene | 19.4 | | 0.500 | " | " | " | | 97 | | | | |
| 1,4-Dichlorobenzene | 18.8 | | 0.500 | " | " | " | | 94 | | | | |
| Dichlorodifluoromethane | 17.1 | | 1.00 | " | " | " | | 85 | | | | |
| 1,1-Dichloroethane | 18.3 | | 0.500 | | " | " | | 91 | " | | | |
| 1,2-Dichloroethane (EDC) | 19.2 | | 0.500 | " | " | " | | 96 | | | | |
| 1,1-Dichloroethene | 19.4 | | 0.500 | " | " | " | | 97 | | | | |
| cis-1,2-Dichloroethene | 18.4 | | 0.500 | " | " | " | | 92 | | | | |
| trans-1,2-Dichloroethene | 18.6 | | 0.500 | " | " | " | | 93 | | | | |
| 1,2-Dichloropropane | 17.7 | | 0.500 | " | " | " | | 88 | | | | |
| 1,3-Dichloropropane | 18.9 | | 1.00 | " | " | " | | 95 | | | | |
| 2,2-Dichloropropane | 21.0 | | 1.00 | " | " | " | | 105 | | | | |
| 1,1-Dichloropropene | 19.0 | | 1.00 | " | " | " | | 95 | | | | |
| cis-1,3-Dichloropropene | 19.1 | | 1.00 | " | " | " | | 96 | | | | |
| trans-1,3-Dichloropropene | 20.3 | | 1.00 | " | " | " | | 102 | | | | |
| Ethylbenzene | 19.6 | | 0.500 | " | " | " | | 98 | | | | |
| Hexachlorobutadiene | 18.0 | | 5.00 | | " | | | 90 | | | | |
| 2-Hexanone | 34.8 | | 10.0 | " | " | 40.0 | | 87 | | | | |
| Isopropylbenzene | 19.9 | | 1.00 | | " | 20.0 | | 99 | " | | | |
| 4-Isopropyltoluene | 19.3 | | 1.00 | | " | " | | 97 | | | | |
| 4-Methyl-2-pentanone (MiBK) | 33.5 | | 10.0 | " | " | 40.0 | | 84 | " | | | |
| Methyl tert-butyl ether (MTBE) | 17.1 | | 1.00 | " | " | 20.0 | | 86 | " | | | |
| Methylene chloride | 17.3 | | 5.00 | " | " | " | | 87 | | | | |
| Naphthalene | 18.6 | | 2.00 | " | " | " | | 93 | " | | | |
| n-Propylbenzene | 18.4 | | 0.500 | " | " | " | | 92 | " | | | |
| Styrene | 21.1 | | 1.00 | | " | " | | 106 | " | | | |
| 1,1,1,2-Tetrachloroethane | 20.8 | | 0.500 | " | " | " | | 104 | | | | |

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| Hahn and Associates | Project: White Salmon | |
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| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/07/14 10:42 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | Volatile Organic Compounds by EPA 8260B | | | | | | | | | | | |
|-------------------------------|---|----------|--------------------|-----------|-----------|-----------------|------------------|----------|----------------|-----|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100760 - EPA 5 | 6030B | | | | | | Wa | ter | | | | |
| LCS (4100760-BS1) | | | | Prepa | ed: 10/28 | 3/14 10:00 | Analyzed | 10/28/14 | 15:19 | | | |
| 1,1,2,2-Tetrachloroethane | 17.9 | | 0.500 | " | " | " | | 89 | " | | | |
| Tetrachloroethene (PCE) | 20.6 | | 0.500 | " | " | " | | 103 | " | | | |
| Toluene | 19.4 | | 1.00 | " | " | " | | 97 | " | | | |
| 1,2,3-Trichlorobenzene | 18.2 | | 2.00 | " | " | " | | 91 | " | | | |
| 1,2,4-Trichlorobenzene | 18.3 | | 2.00 | " | " | " | | 92 | " | | | |
| 1,1,1-Trichloroethane | 19.3 | | 0.500 | " | " | " | | 96 | " | | | |
| 1,1,2-Trichloroethane | 19.4 | | 0.500 | " | " | " | | 97 | " | | | |
| Trichloroethene (TCE) | 19.7 | | 0.500 | " | " | " | | 99 | " | | | |
| Trichlorofluoromethane | 20.0 | | 2.00 | " | " | " | | 100 | " | | | |
| 1,2,3-Trichloropropane | 18.2 | | 1.00 | | " | " | | 91 | " | | | |
| 1,2,4-Trimethylbenzene | 19.4 | | 1.00 | | " | " | | 97 | " | | | |
| 1,3,5-Trimethylbenzene | 19.6 | | 1.00 | | " | " | | 98 | " | | | |
| Vinyl chloride | 16.4 | | 0.500 | | " | " | | 82 | " | | | |
| m,p-Xylene | 39.8 | | 1.00 | | " | 40.0 | | 99 | " | | | |
| o-Xylene | 19.9 | | 0.500 | | " | 20.0 | | 99 | " | | | |
| Surr: Dibromofluoromethane (S | Surr) | Rec | overy: 91 % | Limits: 8 | 0-120 % | Dil | ution: 1x | | | | | |
| 1,4-Difluorobenzene (Sur | r) | | 96 % | 8 | 0-120 % | | " | | | | | |
| Toluene-d8 (Surr) | | | 92 % | | 0-120 % | | " | | | | | |
| 4-Bromofluorobenzene (Si | urr) | | 95 % | 8 | 0-120 % | | " | | | | | |
| Duplicate (4100760-DUP1) | | | | Prepar | ed: 10/28 | 3/14 15:49 | Analyzed | 10/28/14 | 18:08 | | | |
| QC Source Sample: 8755-1410 | 021-101 (A4J | 0686-03) | | | | | | | | | | |
| EPA 8260B | | | | | | | | | | | | |
| Acetone | ND | | 20.0 | ug/L | 1 | | ND | | | | 30% | |
| Benzene | ND | | 0.250 | | " | | ND | | | | 30% | |
| Bromobenzene | ND | | 0.500 | " | " | | ND | | | | 30% | |
| Bromochloromethane | ND | | 1.00 | " | " | | ND | | | | 30% | |
| Bromodichloromethane | ND | | 1.00 | " | " | | ND | | | | 30% | |
| Bromoform | ND | | 1.00 | " | " | | ND | | | | 30% | |
| Bromomethane | ND | | 5.00 | " | " | | ND | | | | 30% | Q-31 |
| 2-Butanone (MEK) | ND | | 10.0 | " | " | | ND | | | | 30% | |
| n-Butylbenzene | ND | | 1.00 | " | " | | ND | | | | 30% | |

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| Hahn and Associates | Project: White Salmon | |
|---------------------------|--------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/07/14 10:42 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | V | olatile Orga | anic Cor | npounc | is by EPA | 8260B | | | | | |
|------------------------------|------------|----------|--------------------|----------|------------|-----------------|------------------|----------|----------------|-----|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100760 - EPA 50 | 30B | | | | | | Wat | ter | | | | |
| Duplicate (4100760-DUP1) | | | | Prepar | red: 10/28 | 8/14 15:49 | Analyzed: | 10/28/14 | 18:08 | _ | | |
| QC Source Sample: 8755-14102 | 1-101 (A4J | 0686-03) | | | | | | | | | | |
| sec-Butylbenzene | ND | | 1.00 | ug/L | " | | ND | | | | 30% | |
| tert-Butylbenzene | ND | | 1.00 | " | " | | ND | | | | 30% | |
| Carbon tetrachloride | ND | | 0.500 | " | " | | ND | | | | 30% | |
| Chlorobenzene | ND | | 0.500 | " | " | | ND | | | | 30% | |
| Chloroethane | ND | | 5.00 | " | " | | ND | | | | 30% | |
| Chloroform | ND | | 1.00 | " | " | | ND | | | | 30% | |
| Chloromethane | ND | | 5.00 | " | " | | ND | | | | 30% | E-03 |
| 2-Chlorotoluene | ND | | 1.00 | " | " | | ND | | | | 30% | |
| 4-Chlorotoluene | ND | | 1.00 | " | " | | ND | | | | 30% | |
| 1,2-Dibromo-3-chloropropa | ND | | 5.00 | " | " | | ND | | | | 30% | |
| ne | NT | | 1.00 | " | " | | | | | | 2021 | |
| Dibromochloromethane | ND | | 1.00 | | | | ND | | | | 30% | |
| 1,2-Dibromoethane (EDB) | ND | | 0.500 | " | " | | ND | | | | 30% | |
| Dibromomethane | ND | | 1.00 | | " | | ND | | | | 30% | |
| 1,2-Dichlorobenzene | ND | | 0.500 | " | " | | ND | | | | 30% | |
| 1,3-Dichlorobenzene | ND | | 0.500 | " | " | | ND | | | | 30% | |
| 1,4-Dichlorobenzene | ND | | 0.500 | " | " | | ND | | | | 30% | |
| Dichlorodifluoromethane | ND | | 1.00 | " | " | | ND | | | | 30% | |
| 1,1-Dichloroethane | ND | | 0.500 | " | " | | ND | | | | 30% | |
| 1,2-Dichloroethane (EDC) | ND | | 0.500 | " | " | | ND | | | | 30% | |
| 1,1-Dichloroethene | ND | | 0.500 | " | " | | ND | | | | 30% | |
| cis-1,2-Dichloroethene | ND | | 0.500 | " | " | | ND | | | | 30% | |
| trans-1,2-Dichloroethene | ND | | 0.500 | " | " | | ND | | | | 30% | |
| 1,2-Dichloropropane | ND | | 0.500 | " | " | | ND | | | | 30% | |
| 1,3-Dichloropropane | ND | | 1.00 | " | " | | ND | | | | 30% | |
| 2,2-Dichloropropane | ND | | 1.00 | " | " | | ND | | | | 30% | |
| 1,1-Dichloropropene | ND | | 1.00 | " | " | | ND | | | | 30% | |
| cis-1,3-Dichloropropene | ND | | 1.00 | " | " | | ND | | | | 30% | |
| trans-1,3-Dichloropropene | ND | | 1.00 | " | " | | ND | | | | 30% | |
| Ethylbenzene | ND | | 0.500 | " | " | | ND | | | | 30% | |

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| Hahn and Associates | Project: | White Salmon | |
|--------------------------|-------------------|--------------|----------------|
| 434 NW 6th Ave. Suite 20 | 3 Project Number: | 8755 | Reported: |
| Portland, OR 97209 | Project Manager: | Rob Ede | 11/07/14 10:42 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | Reporting | | | Spike | Source | | %REC | | RPD | |
|-----------------------------------|------------|----------|-------------|-----------|------------|-----------|-----------|----------|--------|-----|-------|-------|
| Analyte | Result | MDL | Limit | Units | Dil. | Amount | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 4100760 - EPA 50 |)30B | | | | | | Wat | ter | | | | |
| Duplicate (4100760-DUP1) | | | | Prepa | red: 10/28 | /14 15:49 | Analyzed: | 10/28/14 | 18:08 | | | |
| QC Source Sample: 8755-14102 | 1-101 (A4J | 0686-03) | | | | | | | | | | |
| Hexachlorobutadiene | ND | | 5.00 | ug/L | " | | ND | | | | 30% | |
| 2-Hexanone | ND | | 10.0 | " | " | | ND | | | | 30% | |
| Isopropylbenzene | ND | | 1.00 | " | " | | ND | | | | 30% | |
| 4-Isopropyltoluene | ND | | 1.00 | " | " | | ND | | | | 30% | |
| 4-Methyl-2-pentanone (MiBK) | ND | | 10.0 | " | " | | ND | | | | 30% | |
| Methyl tert-butyl ether (MTBE) | ND | | 1.00 | " | " | | ND | | | | 30% | |
| Methylene chloride | ND | | 5.00 | " | " | | ND | | | | 30% | |
| Naphthalene | ND | | 2.00 | | " | | ND | | | | 30% | |
| n-Propylbenzene | ND | | 0.500 | " | " | | ND | | | | 30% | |
| Styrene | ND | | 1.00 | | " | | ND | | | | 30% | |
| 1,1,1,2-Tetrachloroethane | ND | | 0.500 | | " | | ND | | | | 30% | |
| 1,1,2,2-Tetrachloroethane | ND | | 0.500 | " | " | | ND | | | | 30% | |
| Tetrachloroethene (PCE) | ND | | 0.500 | " | " | | ND | | | | 30% | |
| Toluene | ND | | 1.00 | " | " | | ND | | | | 30% | |
| 1,2,3-Trichlorobenzene | ND | | 2.00 | " | " | | ND | | | | 30% | |
| 1,2,4-Trichlorobenzene | ND | | 2.00 | " | " | | ND | | | | 30% | |
| 1,1,1-Trichloroethane | ND | | 0.500 | " | " | | ND | | | | 30% | |
| 1,1,2-Trichloroethane | ND | | 0.500 | " | " | | ND | | | | 30% | |
| Trichloroethene (TCE) | ND | | 0.500 | " | " | | ND | | | | 30% | |
| Trichlorofluoromethane | ND | | 2.00 | | " | | ND | | | | 30% | |
| 1,2,3-Trichloropropane | ND | | 1.00 | | " | | ND | | | | 30% | |
| 1,2,4-Trimethylbenzene | ND | | 1.00 | " | " | | ND | | | | 30% | |
| 1,3,5-Trimethylbenzene | ND | | 1.00 | | " | | ND | | | | 30% | |
| Vinyl chloride | ND | | 0.500 | | " | | ND | | | | 30% | |
| n,p-Xylene | ND | | 1.00 | | " | | ND | | | | 30% | |
| o-Xylene | ND | | 0.500 | | " | | ND | | | | 30% | |
| urr: Dibromofluoromethane (Su | urr) | Reco | overy: 92 % | Limits: 8 | 80-120 % | Dili | ution: 1x | | | | | |
| 1,4-Difluorobenzene (Surr) | | | 96 % | 8 | 0-120 % | | " | | | | | |

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| Hahn and Associates | Project: | White Salmon | |
|---------------------------|----------------------|---------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: | 8755 | Reported: |
| Portland, OR 97209 | Project Manager: | Rob Ede | 11/07/14 10:42 |
| | QUALITY CONTROL (| QC) SAMPLE RESULTS | |
| | Volatile Organic Com | pounds by EPA 8260B | |

| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits RPD | RPD Limit | Notes |
|--------------------------------|-------------|----------|--------------------|---------|-------------|-----------------|------------------|------------|--------------------|--------------|-------|
| Batch 4100760 - EPA 5 | 030B | | | | | | Wa | ter | | | |
| Duplicate (4100760-DUP1) | | | | Prepa | ared: 10/28 | 8/14 15:49 | Analyzed | : 10/28/14 | 18:08 | | |
| QC Source Sample: 8755-14102 | 21-101 (A4J |)686-03) | | | | | | | | | |
| Surr: 4-Bromofluorobenzene (Su | rr) | Reco | very: 97 % | Limits: | 80-120 % | Dil | ution: 1x | | | | |

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Philip Nevenberg

Philip Nerenberg, Lab Director

| Apex L | abs | | | | Tigar 503-7 | 2 S.W. Garden d, OR 97223 718-2323 Phone 718-0333 Fax | |
|---|------------|-------------------|---|--------------------|----------------|--|---------|
| Hahn and Associate | | | 5 | White Salmon | | | |
| 434 NW 6th Ave. Sui Portland, OR 97209 | | | Project Number: 8 Project Manager: F | | | Report 11/07/14 | |
| | | SAM | | TION INFORMATI | ON | | |
| | | Diese | and Oil Hydroca | arbons by NWTPH-I | Dx | | |
| Prep: EPA 35100 | C (Fuels// | Acid Ext.) | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 4100765 A4J0686-03 | Water | NWTPH-Dx | 10/21/14 12:00 | 10/27/14 15:09 | 1000mL/5mL | 1000mL/5mL | 2 1.00 |
| | Gaso | line Range Hydrod | arbons (Benzen | e through Naphthal | ene) by NWTPH | -Gx | |
| Prep: EPA 5030E | 3 | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 4100760 A4J0686-03 | Water | NWTPH-Gx (MS) | 10/21/14 12:00 | 10/28/14 15:49 | 5mL/5mL | 5mL/5mL | 1.00 |
| | | Volati | le Organic Comp | ounds by EPA 8260 |)B | | |
| Prep: EPA 5030E | 3 | | | - | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 4100760 A4J0686-03 | Water | EPA 8260B | 10/21/14 12:00 | 10/28/14 15:49 | 5mL/5mL | 5mL/5mL | 1.00 |

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Philip Nerenberg, Lab Director

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12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

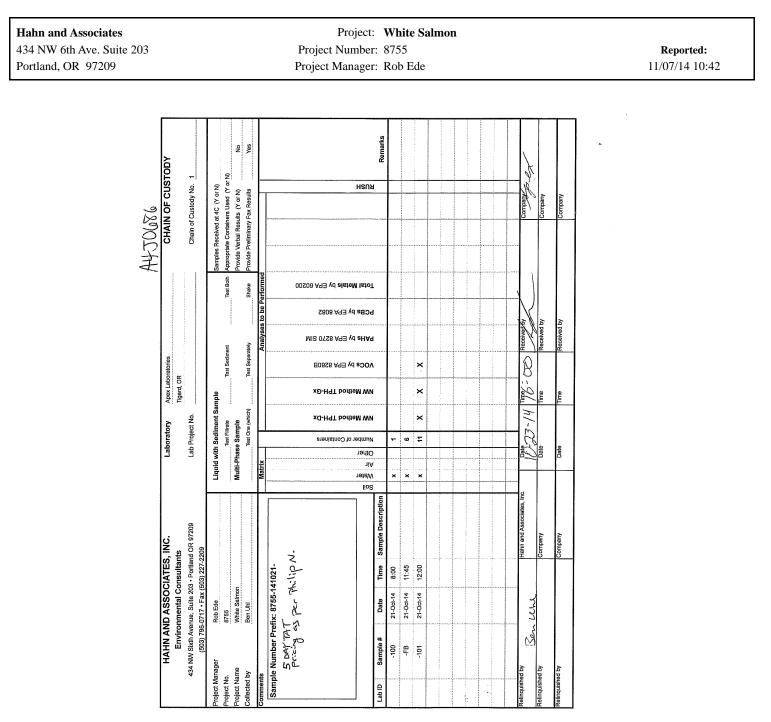
| 434 NW | nd Associates 6th Ave. Suite 203 , OR 97209 | Project: White Salmon Project Number: 8755 Project Manager: Rob Ede | Reported: 11/07/14 10:42 |
|-----------------|--|--|--|
| | | Notes and Definitions | |
| Jualifier | <u>s:</u> | | |
| E-03 | Result is reported as an estimated | value. QA protocols have not been met for this analyte. | |
| Q-19 | Blank Spike Duplicate (BSD) san analysis. | nple analyzed in place of Matrix Spike/Duplicate samples due to | limited sample amount available for |
| Q-31 | Estimated Results. Recovery of C biased low. | continuing Calibration Verification sample below lower control li | imit for this analyte. Results are likely |
| Q-41 | Estimated Results. Recovery of C biased high. | ontinuing Calibration Verification sample above upper control li | imit for this analyte. Results are likely |
| Notes a | nd Conventions: | | |
| DET | Analyte DETECTED | | |
| ND | Analyte NOT DETECTED at or a | bove the reporting limit | |
| NR | Not Reported | | |
| lry | Sample results reported on a dry v | weight basis. Results listed as 'wet' or without 'dry'designation a | re not dry weight corrected. |
| RPD | Relative Percent Difference | | |
| MDL | If MDL is not listed, data has been | n evaluated to the Method Reporting Limit only. | |
| WMSC | Water Miscible Solvent Correctio | n has been applied to Results and MRLs for volatiles soil sample | es per EPA 8000C. |
| Batch QC | analyses were performed with the order to meet or exceed method ar results are available upon request. | s report contains only results for Batch QC derived from client sa appropriate Batch QC (including Sample Duplicates, Matrix Sp nd regulatory requirements. Any exceptions to this will be qualit . In cases where there is insufficient sample provided for Sample CS Dup) is analyzed to demonstrate accuracy and precision of the | bikes and/or Matrix Spike Duplicates) in fied in this report. Complete Batch QC e Duplicates and/or Matrix Spikes, a |
| Blank Policy | chemistry and HCID analyses wh | ntial high bias down to a level equal to ½ the method reporting l ich are assessed only to the MRL. Sample results flagged with a en times the level found in the blank for inorganic analyses or les | B or B-02 qualifier are potentially |
| | | le results to the level found in the blank; water sample results sh divided by 1/50 of the sample dilution to account for the sample | |
| | | w the MRL may include a potential high bias if associated with a qualified results reported below the MRL. | a B or B-02 qualified blank. B and B-02 |
| | QC results are not applicable. For Spikes, etc. | example, % Recoveries for Blanks and Duplicates, % RPD for | Blanks, Blank Spikes and Matrix |
| *** | | pency with the Sample and Sample Duplicate results when the % Duplicate has a reportable result for this analyte, while the other | |

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Philip Nevenberg

Philip Nerenberg, Lab Director





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Philip Nevenberg

Philip Nerenberg, Lab Director

ATTACHMENT B

Laboratory Analytical Reports and Chain-of-Custody Documentation October 21, 2014 Soil Samples

Apex Labs

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Wednesday, November 5, 2014

Rob Ede Hahn and Associates 434 NW 6th Ave. Suite 203 Portland, OR 97209

RE: White Salmon / 8755

Enclosed are the results of analyses for work order <u>A4J0650</u>, which was received by the laboratory on 10/23/2014 at 4:00:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>pnerenberg@apex-labs.com</u>, or by phone at 503-718-2323.

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director

Apex Labs

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

| Hahn and Associates | Project: White Salmon | |
|---------------------------|-------------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/05/14 16:38 |
| | ANALVTICAL DEPODT FOD SAMDLES | |

ANALYTICAL REPORT FOR SAMPLES

| | SA | | ON | |
|----------------|---------------|--------|----------------|----------------|
| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
| 8755-141021-01 | A4J0650-01 | Soil | 10/21/14 13:00 | 10/23/14 16:00 |
| 8755-141021-02 | A4J0650-02 | Soil | 10/21/14 13:14 | 10/23/14 16:00 |
| 8755-141021-03 | A4J0650-03 | Soil | 10/21/14 13:22 | 10/23/14 16:00 |
| 8755-141021-04 | A4J0650-04 | Soil | 10/21/14 13:30 | 10/23/14 16:00 |
| 8755-141021-05 | A4J0650-05 | Soil | 10/21/14 13:40 | 10/23/14 16:00 |
| 8755-141021-06 | A4J0650-06 | Soil | 10/21/14 13:58 | 10/23/14 16:00 |
| 8755-141021-07 | A4J0650-07 | Soil | 10/21/14 14:20 | 10/23/14 16:00 |
| 8755-141021-08 | A4J0650-08 | Soil | 10/21/14 14:31 | 10/23/14 16:00 |
| 8755-141021-09 | A4J0650-09 | Soil | 10/21/14 14:42 | 10/23/14 16:00 |
| 8755-141021-10 | A4J0650-10 | Soil | 10/21/14 15:00 | 10/23/14 16:00 |

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director

| Hahn and Associates | | | Projec | t: White Salm | on | | | |
|-------------------------------|--------|--------|--------------------|------------------|---------------|----------------|----------|---------|
| 434 NW 6th Ave. Suite 203 | | | Project Numbe | er: 8755 | | | Repo | orted: |
| Portland, OR 97209 | | | Project Manage | er: Rob Ede | | | 11/05/1 | 4 16:38 |
| | | AN | ALYTICAL S | SAMPLE RI | ESULTS | | | |
| | | Diesel | and Oil Hydro | carbons by | NWTPH-Dx | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Date Analyzed | Method | Notes |
| 755-141021-01 (A4J0650-01RE1) | | | Matrix: Soil | | Batch: 410080 | 5 | | |
| Diesel | ND | | 25.0 | mg/kg dry | 1 | 10/29/14 11:40 | NWTPH-Dx | |
| Oil | 81.2 | | 50.0 | " | " | " | " | |
| Surrogate: o-Terphenyl (Surr) | | R | ecovery: 87 % | Limits: 50-150 % | 5 " | " | " | |
| 755-141021-02 (A4J0650-02) | | | Matrix: Soil | I | Batch: 410080 | 5 | | |
| Diesel | ND | | 25.0 | mg/kg dry | 1 | 10/28/14 22:52 | NWTPH-Dx | |
| Oil | 56.7 | | 50.0 | " | " | " | " | |
| Surrogate: o-Terphenyl (Surr) | | R | ecovery: 91 % | Limits: 50-150 % | ; " | " | " | |
| 755-141021-03 (A4J0650-03) | | | Matrix: Soil | I | Batch: 410080 | 5 | | |
| Diesel | ND | | 25.0 | mg/kg dry | 1 | 10/28/14 23:40 | NWTPH-Dx | |
| Oil | ND | | 50.0 | " | " | " | " | |
| Surrogate: o-Terphenyl (Surr) | | R | ecovery: 84 % | Limits: 50-150 % | 5 " | " | " | |
| 755-141021-05 (A4J0650-05) | | | Matrix: Soil | 1 | Batch: 410080 | 5 | | |
| Diesel | ND | | 25.0 | mg/kg dry | 1 | 10/29/14 00:27 | NWTPH-Dx | |
| Oil | 155 | | 50.0 | " | " | " | " | |
| Surrogate: o-Terphenyl (Surr) | | R | ecovery: 84 % | Limits: 50-150 % | ; ; ; | " | " | |
| 755-141021-06 (A4J0650-06) | | | Matrix: Soil | I | Batch: 410080 | 5 | | |
| Diesel | ND | | 25.0 | mg/kg dry | 1 | 10/28/14 21:09 | NWTPH-Dx | |
| Oil | ND | | 50.0 | " | " | " | " | |
| Surrogate: o-Terphenyl (Surr) | | R | ecovery: 89 % | Limits: 50-150 % | ; " | " | " | |
| 755-141021-08 (A4J0650-08) | | | Matrix: Soil | I | Batch: 410080 | 5 | | |
| Diesel | ND | | 25.0 | mg/kg dry | 1 | 10/28/14 21:29 | NWTPH-Dx | |
| Oil | 169 | | 50.0 | " | " | " | " | |
| Surrogate: o-Terphenyl (Surr) | | R | ecovery: 98 % | Limits: 50-150 % | ; " | " | " | |
| 755-141021-09 (A4J0650-09) | | | Matrix: Soil | I | Batch: 410080 | 5 | | |
| Diesel | ND | | 25.0 | mg/kg dry | 1 | 10/28/14 22:08 | NWTPH-Dx | |
| Oil | ND | | 50.0 | " | " | " | " | |
| Surrogate: o-Terphenyl (Surr) | | Re | covery: 102 % | Limits: 50-150 % | <u>,</u> " | " | " | |
| 755-141021-10 (A4J0650-10) | | | Matrix: Soil | I | Batch: 410080 | 5 | | |
| Diesel | ND | | 25.0 | mg/kg dry | 1 | 10/28/14 22:28 | NWTPH-Dx | |
| Oil | ND | | 50.0 | " | " | " | " | |

Apex Laboratories

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Apex Labs

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

| Hahn and Associates | | | Proje | ect: White Salmon | | | | |
|---------------------------------------|------------|---------|----------------|-------------------|-------------|----------------|---------------|-------|
| 434 NW 6th Ave. Suite 203 | | | Project Num | ber: 8755 | | | Repor | ted: |
| Portland, OR 97209 | | | - | ger: Rob Ede | | | 11/05/14 | 16:38 |
| | | Al | NALYTICAL | SAMPLE RES | ULTS | | | |
| Gaso | oline Rang | e Hydro | carbons (Benz | zene through N | aphthalen | e) by NWTPH-G | x | |
| | | | Reporting | | | | | |
| Analyte | Result | MDL | Limit | Units | Dilution | Date Analyzed | Method | Notes |
| 755-141021-01 (A4J0650-01) | | | Matrix: Soi | I Ba | tch: 410078 | 82 | | |
| Gasoline Range Organics | ND | | 6.10 | mg/kg dry | 50 | 10/28/14 14:13 | NWTPH-Gx (MS) | |
| Surrogate: 4-Bromofluorobenzene (Sur) | | | Recovery: 82 % | Limits: 50-150 % | 1 | " | " | |
| 1,4-Difluorobenzene (Sur) | | | 84 % | Limits: 50-150 % | " | " | " | |
| 755-141021-02 (A4J0650-02) | | | Matrix: Soi | I Ba | tch: 410078 | 82 | | |
| Gasoline Range Organics | ND | | 5.87 | mg/kg dry | 50 | 10/28/14 15:06 | NWTPH-Gx (MS) | |
| Surrogate: 4-Bromofluorobenzene (Sur) | | | Recovery: 72 % | Limits: 50-150 % | 1 | " | " | |
| 1,4-Difluorobenzene (Sur) | | | 80 % | Limits: 50-150 % | " | " | " | |
| 755-141021-03 (A4J0650-03) | | | Matrix: Soi | l Ba | tch: 410078 | 82 | | |
| Gasoline Range Organics | ND | | 6.79 | mg/kg dry | 50 | 10/28/14 16:24 | NWTPH-Gx (MS) | |
| Surrogate: 4-Bromofluorobenzene (Sur) | | | Recovery: 76 % | Limits: 50-150 % | 1 | " | " | |
| 1,4-Difluorobenzene (Sur) | | | 80 % | Limits: 50-150 % | " | " | " | |
| 3755-141021-05 (A4J0650-05) | | | Matrix: Soi | I Ba | tch: 410078 | 82 | | |
| | | | 5.43 | /1 1 | 50 | 10/20/14 16 50 | NUTTIL C (MC) | |
| Gasoline Range Organics | ND | | 5.43 | mg/kg dry | 50 | 10/28/14 16:50 | NWTPH-Gx (MS) | |

| 1,4-Difluorobenzene (Sur) | | | 83 % | Limits: 50-150 % | " | " | " | |
|---------------------------------------|----|---|----------------|------------------|------------|----------------|---------------|--|
| 8755-141021-06 (A4J0650-06) | | | Matrix: So | il Bat | tch: 41007 | 82 | | |
| Gasoline Range Organics | ND | | 6.10 | mg/kg dry | 50 | 10/28/14 17:17 | NWTPH-Gx (MS) | |
| Surrogate: 4-Bromofluorobenzene (Sur) | | i | Recovery: 77 % | Limits: 50-150 % | 1 | " | " | |
| 1,4-Difluorobenzene (Sur) | | | 79 % | Limits: 50-150 % | " | " | " | |
| 8755-141021-08 (A4J0650-08) | | | Matrix: So | il Bat | tch: 41007 | 82 | | |
| Gasoline Range Organics | ND | | 5.95 | mg/kg dry | 50 | 10/28/14 17:43 | NWTPH-Gx (MS) | |
| Surrogate: 4-Bromofluorobenzene (Sur) | | i | Recovery: 77 % | Limits: 50-150 % | 1 | " | " | |
| 1,4-Difluorobenzene (Sur) | | | 83 % | Limits: 50-150 % | " | " | " | |
| | | | | | | | | |

| | Matrix: So | il Bat | ch: 41007 | '82 | | |
|------|----------------|---|---|---|---|---|
| ND | 8.14 | mg/kg dry | 50 | 10/28/14 18:09 | NWTPH-Gx (MS) | |
| | Recovery: 76 % | Limits: 50-150 % | 1 | " | " | |
| | 82 % | Limits: 50-150 % | " | " | " | |
| | Matrix: So | il Bat | ch: 41007 | '82 | | |
| 39.5 | 7.12 | mg/kg dry | 50 | 10/28/14 18:36 | NWTPH-Gx (MS) | F-13 |
| | Recovery: 85 % | Limits: 50-150 % | 1 | " | " | |
| | 83 % | Limits: 50-150 % | " | " | | |
| | 39.5 | ND 8.14 Recovery: 76 % 82 % Matrix: So 39.5 7.12 Recovery: 85 % | ND 8.14 mg/kg dry Recovery: 76 % Limits: 50-150 % 2% Matrix: Soil Bat 39.5 7.12 Recovery: 85 % Limits: 50-150 % | ND 8.14 mg/kg dry 50 Recovery: 76 % Limits: 50-150 % 1 82 % Limits: 50-150 % " Matrix: Soil Batch: 41007 39.5 7.12 mg/kg dry 50 Recovery: 85 % Limits: 50-150 % 1 | ND 8.14 mg/kg dry 50 10/28/14 18:09 Recovery: 76 % Limits: 50-150 % 1 " 82 % Limits: 50-150 % 1 " Matrix: Soil Batch: 4100782 39.5 7.12 mg/kg dry 50 10/28/14 18:36 Recovery: 85 % Limits: 50-150 % 1 " | ND 8.14 mg/kg dry 50 10/28/14 18:09 NWTPH-Gx (MS) Recovery: 76 % Limits: 50-150 % 1 " " " 82 % Limits: 50-150 % 1 " " " " Matrix: Soil Batch: 4100782 NWTPH-Gx (MS) MWTPH-Gx (MS) MWTPH-Gx (MS) 39.5 7.12 mg/kg dry 50 10/28/14 18:36 NWTPH-Gx (MS) Recovery: 85 % Limits: 50-150 % 1 " " |

Apex Laboratories

Philip Neverberg

| 434 NW 6th Ave. Suite 203 Project Number: 8755 | |
|--|----------------|
| | Reported: |
| Portland, OR 97209 Project Manager: Rob Ede | 11/05/14 16:38 |

ANALYTICAL SAMPLE RESULTS

| BTEX+N Compounds by EPA 8260B | | | | | | | | | | |
|--|--------|-----|--------------------|------------------|---------------|----------------|------------|-------|--|--|
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Date Analyzed | Method | Notes | | |
| 8755-141021-01 (A4J0650-01) | | | Matrix: Soil | B | atch: 410078 | 32 | | | | |
| Benzene | ND | | 15.3 | ug/kg dry | 50 | 10/28/14 14:13 | 5035/8260B | | | |
| Toluene | ND | | 61.0 | " | " | " | " | | | |
| Ethylbenzene | ND | | 30.5 | " | " | " | " | | | |
| Xylenes, total | ND | | 91.5 | " | " | " | " | | | |
| Naphthalene | ND | | 61.0 | " | " | " | " | | | |
| Surrogate: Dibromofluoromethane (Surr) | | I | Recovery: 91 % | Limits: 70-130 % | 1 | " | " | | | |
| 1,4-Difluorobenzene (Surr) | | | 96 % | Limits: 70-130 % | " | " | " | | | |
| Toluene-d8 (Surr) | | | 91 % | Limits: 70-130 % | " | " | " | | | |
| 4-Bromofluorobenzene (Surr) | | | 90 % | Limits: 70-130 % | " | " | " | | | |
| 8755-141021-02 (A4J0650-02) | | | Matrix: Soil | B | atch: 410078 | 32 | | | | |
| Benzene | ND | | 14.7 | ug/kg dry | 50 | 10/28/14 15:06 | 5035/8260B | | | |
| Toluene | ND | | 58.7 | " | " | " | " | | | |
| Ethylbenzene | ND | | 29.4 | " | " | " | " | | | |
| Xylenes, total | ND | | 88.1 | " | " | " | " | | | |
| Naphthalene | ND | | 58.7 | " | " | " | " | | | |
| Surrogate: Dibromofluoromethane (Surr) | | I | Recovery: 89 % | Limits: 70-130 % | 1 | " | " | | | |
| 1,4-Difluorobenzene (Surr) | | | 92 % | Limits: 70-130 % | " | " | " | | | |
| Toluene-d8 (Surr) | | | 91 % | Limits: 70-130 % | " | " | " | | | |
| 4-Bromofluorobenzene (Surr) | | | 86 % | Limits: 70-130 % | " | " | " | | | |
| 3755-141021-03 (A4J0650-03) | | | Matrix: Soil B | | atch: 4100782 | | | | | |
| Benzene | ND | | 17.0 | ug/kg dry | 50 | 10/28/14 16:24 | 5035/8260B | | | |
| Toluene | ND | | 67.9 | " | " | " | " | | | |
| Ethylbenzene | ND | | 33.9 | " | " | " | " | | | |
| Xylenes, total | ND | | 102 | " | " | " | " | | | |
| Naphthalene | ND | | 67.9 | " | " | " | " | | | |
| Surrogate: Dibromofluoromethane (Surr) | | I | Recovery: 88 % | Limits: 70-130 % | 1 | " | " | | | |
| 1,4-Difluorobenzene (Surr) | | | 94 % | Limits: 70-130 % | " | " | " | | | |
| Toluene-d8 (Surr) | | | 92 % | Limits: 70-130 % | " | " | " | | | |
| 4-Bromofluorobenzene (Surr) | | | 91 % | Limits: 70-130 % | " | " | " | | | |
| 3755-141021-04 (A4J0650-04) | | | Matrix: Soil | B | atch: 41008 | 30 | | | | |
| Benzene | ND | | 14.7 | ug/kg dry | 50 | 10/30/14 13:10 | 5035/8260B | | | |
| Toluene | ND | | 58.6 | " | " | " | " | | | |
| Ethylbenzene | ND | | 29.3 | " | " | " | " | | | |
| Xylenes, total | ND | | 88.0 | " | | " | " | | | |

Apex Laboratories

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12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

| Hahn and Associates 434 NW 6th Ave. Suite 203 Portland, OR 97209 | | | Project: Project Number: Project Manager: | | ion | | | eported: 5/14 16:38 |
|--|--------|-----|---|------------|---------------------------|---------------|--------|------------------------|
| | | ANA | ALYTICAL SA | MPLE RI | ESULTS | | | |
| | | BTE | X+N Compour | nds by EPA | 8260B | | | |
| Analyte 8755-141021-04 (A4J0650-04) | Result | MDL | Reporting Limit Matrix: Soil | Units | Dilution Batch: 410088 | Date Analyzed | Method | Notes |

| Analyte | Result | WIDL | Linnt | Units | Dilution | Date Analyzed | Ivietilou | Notes |
|--|--------------|------|----------------|-------------------|-------------|----------------|------------|-------|
| 8755-141021-04 (A4J0650-04) | | | Matrix: So | il Batch: 4100880 | | | | |
| Naphthalene | ND | | 58.6 | ug/kg dry | 50 | " | 5035/8260B | |
| Surrogate: Dibromofluoromethane (Surr) | | | Recovery: 98 % | Limits: 70-130 % | 1 | " | " | |
| I,4-Difluorobenzene (Surr) | | | 99 % | Limits: 70-130 % | " | " | " | |
| Toluene-d8 (Surr) | | | 97 % | Limits: 70-130 % | " | " | " | |
| 4-Bromofluorobenzene (Surr) | | | 95 % | Limits: 70-130 % | " | " | " | |
| 8755-141021-05 (A4J0650-05) | Matrix: Soil | | | atch: 41007 | 82 | | | |
| Benzene | ND | | 13.6 | ug/kg dry | 50 | 10/28/14 16:50 | 5035/8260B | |
| Toluene | ND | | 54.3 | " | " | " | " | |
| Ethylbenzene | ND | | 27.2 | " | " | " | " | |
| Xylenes, total | ND | | 81.5 | " | " | " | " | |
| Naphthalene | ND | | 54.3 | " | " | " | " | |
| Surrogate: Dibromofluoromethane (Surr) | | | Recovery: 90 % | Limits: 70-130 % | 1 | " | " | |
| 1,4-Difluorobenzene (Surr) | | | 97% | Limits: 70-130 % | " | " | " | |
| Toluene-d8 (Surr) | | | 89 % | Limits: 70-130 % | " | " | " | |
| 4-Bromofluorobenzene (Surr) | | | 89 % | Limits: 70-130 % | " | " | " | |
| 8755-141021-06 (A4J0650-06) | | | Matrix: So | il B | atch: 41007 | 82 | | |
| Benzene | ND | | 15.3 | ug/kg dry | 50 | 10/28/14 17:17 | 5035/8260B | |
| Toluene | ND | | 61.0 | " | " | " | " | |
| Ethylbenzene | ND | | 30.5 | " | " | " | " | |
| Xylenes, total | ND | | 91.6 | " | " | " | " | |
| Naphthalene | ND | | 61.0 | " | " | " | " | |
| Surrogate: Dibromofluoromethane (Surr) | | | Recovery: 90 % | Limits: 70-130 % | 1 | " | " | |
| 1,4-Difluorobenzene (Surr) | | | 92 % | Limits: 70-130 % | " | " | " | |
| Toluene-d8 (Surr) | | | 89 % | Limits: 70-130 % | " | " | " | |
| 4-Bromofluorobenzene (Surr) | | | 91 % | Limits: 70-130 % | " | " | " | |
| 8755-141021-07 (A4J0650-07) | | | Matrix: So | il B | atch: 41008 | 80 | | |
| Benzene | ND | | 14.9 | ug/kg dry | 50 | 10/30/14 13:36 | 5035/8260B | |
| Toluene | ND | | 59.7 | " | " | " | " | |
| Ethylbenzene | ND | | 29.8 | " | " | " | " | |
| Xylenes, total | ND | | 89.5 | " | " | " | " | |
| Naphthalene | ND | | 59.7 | " | " | " | " | |
| Surrogate: Dibromofluoromethane (Surr) | | | Recovery: 96 % | Limits: 70-130 % | 1 | " | " | |
| 1,4-Difluorobenzene (Surr) | | | 101 % | Limits: 70-130 % | " | " | " | |
| Toluene-d8 (Surr) | | | 86 % | Limits: 70-130 % | | " | " | |

Apex Laboratories

Philip Nevenberg

| 434 NW 6th Ave. Suite 203 Project Number: 8755 Reported: Portland, OR 97209 Project Manager: Rob Ede 11/05/14 16:38 | Hah | n and Associates | Project: White | Salmon | |
|---|-------|-----------------------|-------------------------|--------|----------------|
| Portland, OR 97209 Project Manager: Rob Ede 11/05/14 16:38 | 434] | NW 6th Ave. Suite 203 | Project Number: 8755 | | Reported: |
| | Portl | land, OR 97209 | Project Manager: Rob Ed | de | 11/05/14 16:38 |

ANALYTICAL SAMPLE RESULTS

| | | BT | EX+N Comp | ounds by EPA | 8260B | | | |
|--|--------|-----|----------------|------------------|--------------|----------------|------------|-------|
| | | | Reporting | | | | | |
| Analyte | Result | MDL | Limit | Units | Dilution | Date Analyzed | Method | Notes |
| 8755-141021-07 (A4J0650-07) | | | Matrix: So | il B | atch: 41008 | 80 | | |
| Surrogate: 4-Bromofluorobenzene (Surr) | | 1 | Recovery: 92 % | Limits: 70-130 % | 1 | " | 5035/8260B | |
| 8755-141021-08 (A4J0650-08) | | | Matrix: So | il B | atch: 410078 | 82 | | |
| Benzene | ND | | 14.9 | ug/kg dry | 50 | 10/28/14 17:43 | 5035/8260B | |
| Toluene | ND | | 59.5 | " | " | " | " | |
| Ethylbenzene | ND | | 29.7 | " | " | " | " | |
| Xylenes, total | ND | | 89.2 | " | " | " | " | |
| Naphthalene | ND | | 59.5 | " | " | " | " | |
| Surrogate: Dibromofluoromethane (Surr) | | 1 | Recovery: 92 % | Limits: 70-130 % | 1 | " | " | |
| 1,4-Difluorobenzene (Surr) | | | 96 % | Limits: 70-130 % | " | " | " | |
| Toluene-d8 (Surr) | | | 90 % | Limits: 70-130 % | " | " | " | |
| 4-Bromofluorobenzene (Surr) | | | 87 % | Limits: 70-130 % | " | " | " | |
| 8755-141021-09 (A4J0650-09) | | | Matrix: So | il B | atch: 410078 | 82 | | |
| Benzene | ND | | 20.4 | ug/kg dry | 50 | 10/28/14 18:09 | 5035/8260B | |
| Toluene | ND | | 81.4 | " | " | " | " | |
| Ethylbenzene | ND | | 40.7 | " | " | " | " | |
| Xylenes, total | ND | | 122 | " | " | " | " | |
| Naphthalene | ND | | 81.4 | " | " | " | " | |
| Surrogate: Dibromofluoromethane (Surr) | | 1 | Recovery: 91 % | Limits: 70-130 % | 1 | " | " | |
| 1,4-Difluorobenzene (Surr) | | | 95 % | Limits: 70-130 % | " | " | " | |
| Toluene-d8 (Surr) | | | 91 % | Limits: 70-130 % | " | " | " | |
| 4-Bromofluorobenzene (Surr) | | | 89 % | Limits: 70-130 % | " | " | " | |
| 8755-141021-10 (A4J0650-10) | | | Matrix: So | il B | atch: 410078 | 82 | | |
| Benzene | ND | | 17.8 | ug/kg dry | 50 | 10/28/14 18:36 | 5035/8260B | |
| Toluene | ND | | 71.2 | " | " | " | " | |
| Ethylbenzene | ND | | 35.6 | " | " | " | " | |
| Xylenes, total | ND | | 107 | " | " | " | " | |
| Naphthalene | ND | | 71.2 | " | " | " | " | |
| Surrogate: Dibromofluoromethane (Surr) | | 1 | Recovery: 89 % | Limits: 70-130 % | 1 | " | " | |
| 1,4-Difluorobenzene (Surr) | | | 93 % | Limits: 70-130 % | " | " | " | |
| Toluene-d8 (Surr) | | | 89 % | Limits: 70-130 % | " | " | " | |
| 4-Bromofluorobenzene (Surr) | | | 91 % | Limits: 70-130 % | " | " | " | |

Apex Laboratories

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Philip Nerenberg, Lab Director

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| Hahn and Associates | Project: White Salmon | |
|---------------------------|---------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/05/14 16:38 |
| | ANALYTICAL SAMPLE RESULTS | |

| | | | Percent | Dry Weight | | | | |
|-----------------------------|--------|-----|--------------|-------------|-------------|----------------|-----------|-------|
| | | | Reporting | | | | | |
| Analyte | Result | MDL | Limit | Units | Dilution | Date Analyzed | Method | Notes |
| 8755-141021-01 (A4J0650-01) | | | Matrix: Soil | Bi | atch: 41007 | 53 | | |
| % Solids | 78.8 | | 1.00 | % by Weight | 1 | 10/28/14 12:27 | EPA 8000C | |
| 8755-141021-02 (A4J0650-02) | | | Matrix: Soil | B | atch: 41007 | 53 | | |
| % Solids | 81.6 | | 1.00 | % by Weight | 1 | 10/28/14 12:27 | EPA 8000C | |
| 8755-141021-03 (A4J0650-03) | | | Matrix: Soil | B | atch: 41007 | 53 | | |
| % Solids | 75.4 | | 1.00 | % by Weight | 1 | 10/28/14 12:27 | EPA 8000C | |
| 8755-141021-04 (A4J0650-04) | | | Matrix: Soil | B | atch: 41007 | 53 | | |
| % Solids | 82.2 | | 1.00 | % by Weight | 1 | 10/28/14 12:27 | EPA 8000C | |
| 8755-141021-05 (A4J0650-05) | | | Matrix: Soil | B | atch: 41007 | 53 | | |
| % Solids | 84.7 | | 1.00 | % by Weight | 1 | 10/28/14 12:27 | EPA 8000C | |
| 8755-141021-06 (A4J0650-06) | | | Matrix: Soil | B | atch: 41007 | 53 | | |
| % Solids | 81.7 | | 1.00 | % by Weight | 1 | 10/28/14 12:27 | EPA 8000C | |
| 8755-141021-07 (A4J0650-07) | | | Matrix: Soil | B | atch: 41007 | 53 | | |
| % Solids | 81.1 | | 1.00 | % by Weight | 1 | 10/28/14 12:27 | EPA 8000C | |
| 8755-141021-08 (A4J0650-08) | | | Matrix: Soil | B | atch: 41007 | 53 | | |
| % Solids | 77.2 | | 1.00 | % by Weight | 1 | 10/28/14 12:27 | EPA 8000C | |
| 8755-141021-09 (A4J0650-09) | | | Matrix: Soil | B | atch: 41007 | 53 | | |
| % Solids | 76.7 | | 1.00 | % by Weight | 1 | 10/28/14 12:27 | EPA 8000C | |
| 8755-141021-10 (A4J0650-10) | | | Matrix: Soil | B | atch: 41007 | 53 | | |
| % Solids | 73.1 | | 1.00 | % by Weight | 1 | 10/28/14 12:27 | EPA 8000C | |
| | | | | | | | | |

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director

| Apex Labs |
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| Hahn and Associates | Project: White Salmon | |
|---------------------------|--------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/05/14 16:38 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | Diesel and | l Oil Hydrod | arbor | s by NWTP | H-Dx | | | | | |
|---------------------------------|---------------|-------|--------------------|--------------|----------|-----------------|------------------|-------------|----------------|-----|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100805 - EPA 3546 | 6 (Fuels) | | | | | | Soi | I | | | | |
| Blank (4100805-BLK1) | | | | Prep | ared: 10 | /28/14 14:50 | Analyzed: | 10/28/14 22 | :39 | | | |
| NWTPH-Dx | | | | | | | | | | | | |
| Diesel | ND | | 25.0 | mg/kg wet | 1 | | | | | | | |
| Oil | ND | | 50.0 | " | " | | | | | | | |
| Surr: o-Terphenyl (Surr) | | Rec | overy: 93 % | Limits: 50-1 | 50 % | Dilu | tion: 1x | | | | | |
| LCS (4100805-BS1) | | | | Prep | ared: 10 | /28/14 14:50 | Analyzed: | 10/28/14 22 | :59 | | | |
| NWTPH-Dx | | | | | | | | | | | | |
| Diesel | 116 | | 25.0 | mg/kg wet | 1 | 125 | | 92 | 76-115% | | | |
| Surr: o-Terphenyl (Surr) | | Rec | overy: 98 % | Limits: 50-1 | 50 % | Dilu | tion: 1x | | | | | |
| Duplicate (4100805-DUP3) | | | | Prep | ared: 10 | /28/14 14:50 | Analyzed: | 10/29/14 12 | :21 | | | |
| QC Source Sample: 8755-141021-0 | 01 (A4J0650-0 | 1RE1) | | | | | | | | | | |
| NWTPH-Dx | | | | | | | | | | | | |
| Diesel | ND | | 25.0 | mg/kg dry | 1 | | ND | | | | 30% | |
| Oil | 78.1 | | 50.0 | " | " | | 81.2 | | | 4 | 30% | |
| Surr: o-Terphenyl (Surr) | | Rec | overy: 89 % | Limits: 50-1 | 50 % | Dilu | tion: 1x | | | | | |

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director

| Apex | Labs |
|------|------|
|------|------|

| Hahn and Associates | Project: Whit | e Salmon | |
|---------------------------|------------------------|----------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | | Reported: |
| Portland, OR 97209 | Project Manager: Rob I | Ede | 11/05/14 16:38 |
| | | | |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | Gasolin | e Range I | Hydrocarbo | ons (Benze | ene thro | ough Napht | halene) l | by NWTP | H-Gx | | | |
|----------------------------------|-------------|-----------|--------------------|-------------|-----------|-----------------|------------------|-------------|----------------|-----|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100782 - EPA 5035/ | A | | | | | | Soi | | | | | |
| Blank (4100782-BLK1) | | | | Prep | ared: 10/ | 28/14 09:00 | Analyzed: | 10/28/14 12 | :25 | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | ND | | 3.33 | mg/kg wet | 50 | | | | | | | |
| Surr: 4-Bromofluorobenzene (Sur) | | Rec | overy: 79 % | Limits: 50- | 150 % | Dilu | tion: 1x | | | | | |
| 1,4-Difluorobenzene (Sur) | | | 87 % | 50 | 150 % | | " | | | | | |
| LCS (4100782-BS2) | | | | Prep | ared: 10/ | 28/14 09:00 | Analyzed: | 10/28/14 11 | :58 | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | 20.9 | | 5.00 | mg/kg wet | 50 | 25.0 | | 84 | 70-130% | | | |
| Surr: 4-Bromofluorobenzene (Sur) | | Rec | overy: 81 % | Limits: 50- | 150 % | Dilu | tion: 1x | | | | | |
| 1,4-Difluorobenzene (Sur) | | | 80 % | 50 | 150 % | | " | | | | | |
| Duplicate (4100782-DUP1) | | | | Prep | ared: 10/ | 21/14 13:00 | Analyzed: | 10/28/14 14 | :39 | | | |
| QC Source Sample: 8755-141021-01 | (A4J0650-01 | l) | | | | | | | | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | ND | | 6.31 | mg/kg dry | 50 | | ND | | | | 30% | |
| Surr: 4-Bromofluorobenzene (Sur) | | Rec | overy: 77 % | Limits: 50- | 150 % | Dilu | tion: 1x | | | | | |
| 1,4-Difluorobenzene (Sur) | | | 81 % | 50 | 150 % | | " | | | | | |

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| Hahn and Associates | Project: White Salmon | |
|---------------------------|--------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/05/14 16:38 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | BTEX+ | N Compou | inds by | EPA 8260 | В | | | | | |
|-----------------------------------|-------------|-----|--------------------|-------------|-----------|-----------------|------------------|------------|----------------|-----|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100782 - EPA 5035A | | | | | | | Soi | l | | | | |
| Blank (4100782-BLK1) | | | | Prep | ared: 10/ | 28/14 09:00 | Analyzed: | 10/28/14 1 | 2:25 | | | |
| 5035/8260B | | | | | | | | | | | | |
| Benzene | ND | | 8.33 | ug/kg wet | 50 | | | | | | | |
| Toluene | ND | | 33.3 | " | " | | | | | | | |
| Ethylbenzene | ND | | 16.7 | " | " | | | | | | | |
| Xylenes, total | ND | | 50.0 | " | " | | | | | | | |
| Naphthalene | ND | | 33.3 | " | " | | | | | | | |
| Surr: Dibromofluoromethane (Surr) | | Rea | covery: 93 % | Limits: 70- | 130 % | Dilı | ution: 1x | | | | | |
| 1,4-Difluorobenzene (Surr) | | | 99 % | | 30 % | | " | | | | | |
| Toluene-d8 (Surr) | | | 94 % | | 30 % | | " | | | | | |
| 4-Bromofluorobenzene (Surr) | | | 90 % | 70-1 | 30 % | | " | | | | | |
| LCS (4100782-BS1) | | | | Prep | ared: 10/ | 28/14 09:00 | Analyzed: | 10/28/14 1 | 1:31 | | | |
| 5035/8260B | | | | | | | | | | | | |
| Benzene | 961 | | 12.5 | ug/kg wet | 50 | 1000 | | 96 | 65-135% | | | |
| Toluene | 967 | | 50.0 | " | " | " | | 97 | " | | | |
| Ethylbenzene | 995 | | 25.0 | " | " | " | | 100 | " | | | |
| Xylenes, total | 2880 | | 75.0 | " | " | 3000 | | 96 | " | | | |
| Naphthalene | 870 | | 50.0 | " | " | 1000 | | 87 | " | | | |
| Surr: Dibromofluoromethane (Surr) | | Red | covery: 92 % | Limits: 70- | 30% | Dilı | ution: 1x | | | | | |
| 1,4-Difluorobenzene (Surr) | | | 99 % | | 30 % | | " | | | | | |
| Toluene-d8 (Surr) | | | 95 % | | 30 % | | " | | | | | |
| 4-Bromofluorobenzene (Surr) | | | 87 % | 70-1 | 30 % | | " | | | | | |
| Duplicate (4100782-DUP1) | | | | Prep | ared: 10/ | 21/14 13:00 | Analyzed: | 10/28/14 1 | 4:39 | | | |
| QC Source Sample: 8755-141021-01 | (A4J0650-01 | l) | | | | | | | | | | |
| 5035/8260B | | | | | | | | | | | | |
| Benzene | ND | | 15.8 | ug/kg dry | 50 | | ND | | | | 30% | |
| Toluene | ND | | 63.1 | " | " | | ND | | | | 30% | |
| Ethylbenzene | ND | | 31.6 | " | " | | ND | | | | 30% | |
| Xylenes, total | ND | | 94.7 | " | " | | ND | | | | 30% | |
| Naphthalene | ND | | 63.1 | " | " | | ND | | | | 30% | |
| Surr: Dibromofluoromethane (Surr) | | Red | covery: 92 % | Limits: 70- | 30% | Dilı | ution: 1x | | | | | |
| 1,4-Difluorobenzene (Surr) | | | 94 % | | 30 % | | " | | | | | |

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| Hahn and Associates | Project: White Salmon | |
|---------------------------|--------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/05/14 16:38 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| BTEX+N Compounds by EPA 8260B | | | | | | | | | | | | |
|-----------------------------------|-------------|-----|--------------------|---------------|------------|-----------------|------------------|-------------|----------------|-----|--------------|------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Note |
| Batch 4100782 - EPA 50354 | 4 | | | | | | Soil | | | | | |
| Duplicate (4100782-DUP1) | | | | Prepa | ared: 10/2 | 21/14 13:00 | Analyzed: | 10/28/14 14 | 4:39 | | | |
| QC Source Sample: 8755-141021-01 | (A4J0650-0 | 1) | | | | | | | | | | |
| Surr: Toluene-d8 (Surr) | | Rec | overy: 93 % | Limits: 70-1. | 30 % | Dilı | tion: 1x | | | | | |
| 4-Bromofluorobenzene (Surr) | | | 87 % | 70-1. | 30 % | | " | | | | | |
| Matrix Spike (4100782-MS1) | | | | Prepa | ared: 10/2 | 21/14 13:14 | Analyzed: | 10/28/14 1: | 5:32 | | | |
| QC Source Sample: 8755-141021-02 | (A4J0650-02 | 2) | | | | | | | | | | |
| 5035/8260B | | | | | | | | | | | | |
| Benzene | 1110 | | 14.7 | ug/kg dry | 50 | 1170 | ND | 95 | 65-135% | | | |
| Toluene | 1060 | | 58.7 | " | " | " | ND | 91 | " | | | |
| Ethylbenzene | 1130 | | 29.4 | " | " | " | ND | 97 | " | | | |
| Xylenes, total | 3230 | | 88.1 | " | " | 3520 | ND | 92 | | | | |
| Naphthalene | 954 | | 58.7 | " | " | 1170 | ND | 81 | " | | | |
| Surr: Dibromofluoromethane (Surr) | | Rec | overy: 92 % | Limits: 70-1 | 30 % | Dilı | ution: 1x | | | | | |
| 1,4-Difluorobenzene (Surr) | | | 96 % | 70-1. | 30 % | | " | | | | | |
| Toluene-d8 (Surr) | | | 90 % | 70-1. | 30 % | | " | | | | | |
| 4-Bromofluorobenzene (Surr) | | | 88 % | 70-1. | 30 % | | " | | | | | |

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Philip Nerenberg, Lab Director

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| Hahn and Associates | Project: White Salmon | |
|---------------------------|--------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/05/14 16:38 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | BTEX+ | N Compou | nds by | EPA 8260 | В | | | | | |
|-----------------------------------|--------|-----|--------------------|--------------|-----------|-----------------|------------------|-------------|----------------|-----|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100880 - EPA 5035A | ۱. | | | | | | Soi | I | | | | |
| Blank (4100880-BLK1) | | | | Prep | ared: 10/ | 30/14 10:00 | Analyzed: | 10/30/14 12 | 2:38 | | | |
| 5035/8260B | | | | | | | | | | | | |
| Benzene | ND | | 8.33 | ug/kg wet | 50 | | | | | | | |
| Toluene | ND | | 33.3 | " | " | | | | | | | |
| Ethylbenzene | ND | | 16.7 | " | " | | | | | | | |
| Xylenes, total | ND | | 50.0 | " | " | | | | | | | |
| Naphthalene | ND | | 33.3 | " | " | | | | | | | |
| Surr: Dibromofluoromethane (Surr) | | Re | covery: 95 % | Limits: 70-1 | 30 % | Dilu | tion: 1x | | | | | |
| 1,4-Difluorobenzene (Surr) | | | 101 % | 70-1 | 30 % | | " | | | | | |
| Toluene-d8 (Surr) | | | 90 % | 70-1 | 30 % | | " | | | | | |
| 4-Bromofluorobenzene (Surr) | | | 94 % | 70-1 | 30 % | | " | | | | | |
| LCS (4100880-BS1) | | | | Prep | ared: 10/ | 30/14 10:00 | Analyzed: | 10/30/14 1 | 1:47 | | | |
| 5035/8260B | | | | | | | | | | | | |
| Benzene | 1050 | | 12.5 | ug/kg wet | 50 | 1000 | | 105 | 65-135% | | | |
| Toluene | 1020 | | 50.0 | " | " | " | | 102 | " | | | |
| Ethylbenzene | 1030 | | 25.0 | " | " | " | | 103 | " | | | |
| Xylenes, total | 3210 | | 75.0 | " | " | 3000 | | 107 | " | | | |
| Naphthalene | 822 | | 50.0 | " | " | 1000 | | 82 | " | | | |
| Surr: Dibromofluoromethane (Surr) | | Re | covery: 99% | Limits: 70-1 | 30 % | Dilu | tion: 1x | | | | | |
| 1,4-Difluorobenzene (Surr) | | | 100 % | 70-1 | 30 % | | " | | | | | |
| Toluene-d8 (Surr) | | | 95 % | 70-1 | 30 % | | " | | | | | |
| 4-Bromofluorobenzene (Surr) | | | 92 % | 70-1 | 30 % | | " | | | | | |

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Philip Neverberg

Philip Nerenberg, Lab Director

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| | |

| Hahn and Associates | Project: White Salmon | |
|---------------------------|--------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/05/14 16:38 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | | Percent | Dry We | ight | | | | | | |
|--|---------------|--------|--------------------|----------------|-----------|-----------------|------------------|-------------|----------------|-----|--------------|-------|
| Analyte | Result | MDL | Reporting Limit | Units | Dil. | Spike Amount | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4100753 - Total Sol | ids (Dry W | eight) | | | | | Soil | | | | | |
| Duplicate (4100753-DUP4) | | | | Prep | ared: 10/ | 27/14 16:27 | Analyzed: | 10/28/14 12 | :27 | | | |
| QC Source Sample: 8755-141021-1 EPA 8000C | 10 (A4J0650-1 | 0) | | | | | | | | | | |
| % Solids | 77.3 | | 1.00 | % by Weight | 1 | | 73.1 | | | 6 | 20% | |

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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| Hahn and Associates | Project: White Salmon | |
|---------------------------|--------------------------|----------------|
| 434 NW 6th Ave. Suite 203 | Project Number: 8755 | Reported: |
| Portland, OR 97209 | Project Manager: Rob Ede | 11/05/14 16:38 |
| | | |

SAMPLE PREPARATION INFORMATION

| Diesel and Oil Hydrocarbons by NWTPH-Dx | | | | | | | | | | |
|---|--------|----------|----------------|----------------|---------------|---------------|---------|--|--|--|
| Prep: EPA 3546 (F | uels) | | | | Sample | Default | RL Prep | | | |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor | | | |
| Batch: 4100805 | | | | | | | | | | |
| A4J0650-01RE1 | Soil | NWTPH-Dx | 10/21/14 13:00 | 10/28/14 14:50 | 12.01g/5mL | 10g/5mL | 0.83 | | | |
| A4J0650-02 | Soil | NWTPH-Dx | 10/21/14 13:14 | 10/28/14 14:50 | 13.17g/5mL | 10g/5mL | 0.76 | | | |
| A4J0650-03 | Soil | NWTPH-Dx | 10/21/14 13:22 | 10/28/14 14:50 | 11.69g/5mL | 10g/5mL | 0.86 | | | |
| A4J0650-05 | Soil | NWTPH-Dx | 10/21/14 13:40 | 10/28/14 14:50 | 13.23g/5mL | 10g/5mL | 0.76 | | | |
| A4J0650-06 | Soil | NWTPH-Dx | 10/21/14 13:58 | 10/28/14 14:50 | 12.99g/5mL | 10g/5mL | 0.77 | | | |
| A4J0650-08 | Soil | NWTPH-Dx | 10/21/14 14:31 | 10/28/14 14:50 | 11.52g/5mL | 10g/5mL | 0.87 | | | |
| A4J0650-09 | Soil | NWTPH-Dx | 10/21/14 14:42 | 10/28/14 14:50 | 13.36g/5mL | 10g/5mL | 0.75 | | | |
| A4J0650-10 | Soil | NWTPH-Dx | 10/21/14 15:00 | 10/28/14 14:50 | 13.48g/5mL | 10g/5mL | 0.74 | | | |

| Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx | | | | | | | | | | | |
|---|--------|---------------|----------------|----------------|---------------|---------------|---------|--|--|--|--|
| Prep: EPA 5035A | | | | | Sample | Default | RL Prep | | | | |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor | | | | |
| Batch: 4100782 | | | | | | | | | | | |
| A4J0650-01 | Soil | NWTPH-Gx (MS) | 10/21/14 13:00 | 10/21/14 13:00 | 6.67g/5mL | 10g/10mL | 0.75 | | | | |
| A4J0650-02 | Soil | NWTPH-Gx (MS) | 10/21/14 13:14 | 10/21/14 13:14 | 6.46g/5mL | 10g/10mL | 0.77 | | | | |
| A4J0650-03 | Soil | NWTPH-Gx (MS) | 10/21/14 13:22 | 10/21/14 13:22 | 6.43g/5mL | 10g/10mL | 0.78 | | | | |
| A4J0650-05 | Soil | NWTPH-Gx (MS) | 10/21/14 13:40 | 10/21/14 13:40 | 6.52g/5mL | 10g/10mL | 0.77 | | | | |
| A4J0650-06 | Soil | NWTPH-Gx (MS) | 10/21/14 13:58 | 10/21/14 13:58 | 6.14g/5mL | 10g/10mL | 0.81 | | | | |
| A4J0650-08 | Soil | NWTPH-Gx (MS) | 10/21/14 14:31 | 10/21/14 14:31 | 7.24g/5mL | 10g/10mL | 0.69 | | | | |
| A4J0650-09 | Soil | NWTPH-Gx (MS) | 10/21/14 14:42 | 10/21/14 14:42 | 4.92g/5mL | 10g/10mL | 1.02 | | | | |
| A4J0650-10 | Soil | NWTPH-Gx (MS) | 10/21/14 15:00 | 10/21/14 15:00 | 6.48g/5mL | 10g/10mL | 0.77 | | | | |

| | BTEX+N Compounds by EPA 8260B | | | | | | | | | | | |
|-----------------|-------------------------------|------------|----------------|----------------|---------------|---------------|---------|--|--|--|--|--|
| Prep: EPA 5035A | | | | | Sample | Default | RL Prep | | | | | |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor | | | | | |
| Batch: 4100782 | | | | | | | | | | | | |
| A4J0650-01 | Soil | 5035/8260B | 10/21/14 13:00 | 10/21/14 13:00 | 6.67g/5mL | 10g/10mL | 0.75 | | | | | |
| A4J0650-02 | Soil | 5035/8260B | 10/21/14 13:14 | 10/21/14 13:14 | 6.46g/5mL | 10g/10mL | 0.77 | | | | | |
| A4J0650-03 | Soil | 5035/8260B | 10/21/14 13:22 | 10/21/14 13:22 | 6.43g/5mL | 10g/10mL | 0.78 | | | | | |
| A4J0650-05 | Soil | 5035/8260B | 10/21/14 13:40 | 10/21/14 13:40 | 6.52g/5mL | 10g/10mL | 0.77 | | | | | |
| A4J0650-06 | Soil | 5035/8260B | 10/21/14 13:58 | 10/21/14 13:58 | 6.14g/5mL | 10g/10mL | 0.81 | | | | | |
| A4J0650-08 | Soil | 5035/8260B | 10/21/14 14:31 | 10/21/14 14:31 | 7.24g/5mL | 10g/10mL | 0.69 | | | | | |
| A4J0650-09 | Soil | 5035/8260B | 10/21/14 14:42 | 10/21/14 14:42 | 4.92g/5mL | 10g/10mL | 1.02 | | | | | |
| | | | | | | | | | | | | |

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| Hahn and Associates 434 NW 6th Ave. Suite Portland, OR 97209 | 203 | | Project: V Project Number: 8 Project Manager: R | | | Report 11/05/14 | | |
|--|-------------|------------|--|----------------|---------------|---------------------------|---------|--|
| SAMPLE PREPARATION INFORMATION | | | | | | | | |
| BTEX+N Compounds by EPA 8260B | | | | | | | | |
| Prep: EPA 5035A | | | | | Sample | Default | RL Prep | |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor | |
| A4J0650-10 | Soil | 5035/8260B | 10/21/14 15:00 | 10/21/14 15:00 | 6.48g/5mL | 10g/10mL | 0.77 | |
| Batch: 4100880 | | | | | | | | |
| A4J0650-04 | Soil | 5035/8260B | 10/21/14 13:30 | 10/21/14 13:30 | 6.36g/5mL | 10g/10mL | 0.79 | |
| A4J0650-07 | Soil | 5035/8260B | 10/21/14 14:20 | 10/21/14 14:20 | 6.42g/5mL | 10g/10mL | 0.78 | |
| Percent Dry Weight | | | | | | | | |
| Prep: Total Solids | (Dry Weight |) | | | Sample | Default | RL Prep | |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor | |
| Batch: 4100753 | | | | | | | | |
| A4J0650-01 | Soil | EPA 8000C | 10/21/14 13:00 | 10/27/14 16:27 | 1N/A/1N/A | 1N/A/1N/A | NA | |
| A4J0650-02 | Soil | EPA 8000C | 10/21/14 13:14 | 10/27/14 16:27 | 1N/A/1N/A | 1N/A/1N/A | NA | |
| A4J0650-03 | Soil | EPA 8000C | 10/21/14 13:22 | 10/27/14 16:27 | 1N/A/1N/A | 1N/A/1N/A | NA | |
| A4J0650-04 | Soil | EPA 8000C | 10/21/14 13:30 | 10/27/14 16:27 | 1N/A/1N/A | 1N/A/1N/A | NA | |
| A4J0650-05 | Soil | EPA 8000C | 10/21/14 13:40 | 10/27/14 16:27 | 1N/A/1N/A | 1N/A/1N/A | NA | |
| A4J0650-06 | Soil | EPA 8000C | 10/21/14 13:58 | 10/27/14 16:27 | 1N/A/1N/A | 1N/A/1N/A | NA | |
| A4J0650-07 | Soil | EPA 8000C | 10/21/14 14:20 | 10/27/14 16:27 | 1N/A/1N/A | 1N/A/1N/A | NA | |
| A4J0650-08 | Soil | EPA 8000C | 10/21/14 14:31 | 10/27/14 16:27 | 1N/A/1N/A | 1N/A/1N/A | NA | |
| A4J0650-09 | Soil | EPA 8000C | 10/21/14 14:42 | 10/27/14 16:27 | 1N/A/1N/A | 1N/A/1N/A | NA | |
| A4J0650-10 | Soil | EPA 8000C | 10/21/14 15:00 | 10/27/14 16:27 | 1N/A/1N/A | 1N/A/1N/A | NA | |

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| Hahn an | d Associates | Project: | White Salmon | | | |
|---------------------------|--|---------------------------------------|--|----------------|--|--|
| 434 NW 6th Ave. Suite 203 | | Project Number: | Project Number: 8755 | | | |
| Portland, | OR 97209 | Project Manager: | Rob Ede | 11/05/14 16:38 | | |
| | | Notes and De | finitions | | | |
| ualifiers | <u>::</u> | | | | | |
| F-13 | The chromatographic pattern does no | t resemble the fuel standard used for | quantitation | | | |
| Notes ar | nd Conventions: | | | | | |
| DET | Analyte DETECTED | | | | | |
| ND | Analyte NOT DETECTED at or above | ve the reporting limit | | | | |
| NR | Not Reported | | | | | |
| dry | Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected. | | | | | |
| RPD | Relative Percent Difference | | | | | |
| MDL | If MDL is not listed, data has been ev | valuated to the Method Reporting Lin | nit only. | | | |
| WMSC | Water Miscible Solvent Correction h | as been applied to Results and MRLs | for volatiles soil samples per EPA 8000C. | | | |
| Batch QC | Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis. | | | | | |
| Blank Policy | chemistry and HCID analyses which | are assessed only to the MRL. Samp | ⁴ the method reporting limit (MRL), except for convention le results flagged with a B or B-02 qualifier are potentially inorganic analyses or less than five times the level found in | 7 | | |
| | For accurate comparison of volatile r and soil sample results should be div | | water sample results should be divided by the dilution fac account for the sample prep factor. | etor, | | |
| | Results qualified as reported below the qualifications are not applied to J quart | | bias if associated with a B or B-02 qualified blank. B and L. | B-02 | | |
| | QC results are not applicable. For example, spikes, etc. | ample, % Recoveries for Blanks and | Duplicates, % RPD for Blanks, Blank Spikes and Matrix | | | |
| *** | Used to indicate a possible discrepen | cy with the Sample and Sample Dup | licate results when the %RPD is not available. In this case | ·, | | |

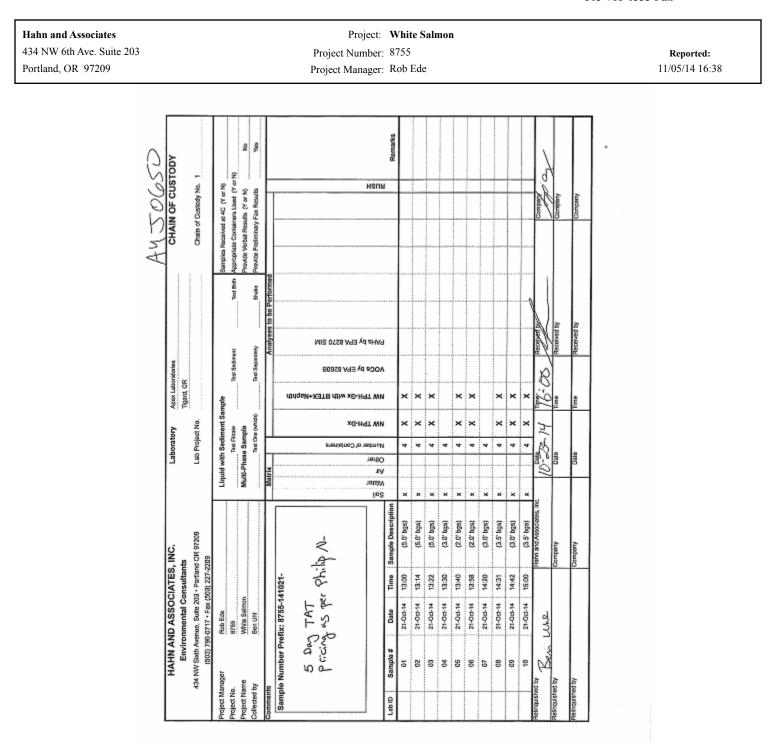
either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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