Phase 1 Remedial Investigation Report

Simplot Grower Solutions

Sunnyside, Washington
April 2020

Phase 1 Remedial Investigation Report

Simplot Grower Solutions Facility
South 300 1st Street
Sunnyside, Washington 98944

April 2020

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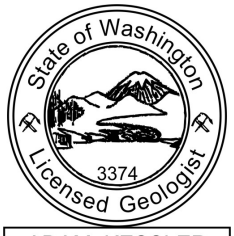

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Appendices

Acronyms

AO	Agreed Order
CLARC	Cleanup Levels and Risk Calculation
COPC	chemical of potential concern
Ecology	Washington State Department of Ecology
EDB	ethylene dibromide
FS	feasibility study
HDR	HDR Engineering, Inc.
MCL	Maximum contaminant level
MCPA	2-methyl-4-chlorophenoxyacetic acid
mg/L	milligrams per liter
MTCA	Models Toxic Control Act
QA/QC	quality assurance/quality control
RI	remedial investigation
RI/FS	remedial investigation/feasibility study
SGS	Simplot Grower Solutions
Simplot	J.R. Simplot Company
SOP	standard operating procedure
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound
WAC	Washington Administrative Code

1 Introduction

This Phase 1 Remedial Investigation Report describes field sampling activities and analytical results to support a remedial investigation and feasibility study (RI/FS) conducted by the J.R. Simplot Company (Simplot) at the Simplot Grower Solutions (SGS) facility at South 300 1st Street, Sunnyside (**Figure 1** and **Figure 2** in Appendix A), Washington. A RI/FS is part of Agreed Order (AO) number 16446 between Simplot and the Washington State Department of Ecology (Ecology).

1.1 Purpose and Objectives

The objective of the RI/FS is to meet the requirements of the AO as described in the Model Toxics Control Act (MTCA) Cleanup Regulation (Washington Administrative Code [WAC] 173-340). The RI is designed to characterize site conditions in order to complete a FS and select a cleanup action as described in WAC 173-340-360 through 173-340-390, because of the presence/discovery of several chemicals of potential concern (COPC) in soils and groundwater at the SGS facility.

As described in the *Draft Remedial Investigation Work Plan* (HDR 2019c), RI activities will be conducted in phases, where information from the current phase will inform the need for additional information and field activities (future phases). Specifics for each phase, such as location and number of samples, are addressed in the *Sampling and Analysis Plan* (HDR 2019b) and supplements to the SAP.

This Phase 1 RI report, presented herein, describes the January 2020 groundwater investigations and analytical results. This report includes information on sample type, sample location, sample procedures, analytical methods and results, and comparison of analytical results to Washington Cleanup Levels and Risk Calculation (CLARC) levels.

Phase 1 RI sampling activities followed the *Draft Remedial Investigation Work Plan* (HDR 2019c), the *Sampling and Analysis Plan* (HDR 2019b) and the Quality Assurance Project Plan (QAPP) (HDR 2019d). **Table 1 (Appendix B)** summarizes past activities conducted at the site.

1.2 Project Organization

Following is a list of personnel involved in carrying out the RI/FS project plan and this Phase 1 RI report:

- Molly Prickett, J.R. Simplot Company, project manager (208) 235-5682
- Michael Murray, HDR Engineering, project manager (208) 387-7033
- Corrie Hugaboom, HDR Engineering, health and safety officer (208) 387-7003
- Adam Kessler, HDR licensed geologist
- Alyssa Veatch, HDR geologist, field lead (208) 387-7113
- Environmental West – GeoProbe and hollow stem auger drilling
- Analytical Laboratory – Eurofins TestAmerica, Tacoma, Washington

The following Ecology project coordinator is overseeing the RI/FS:

- Frank Winslow, Washington Department of Ecology, project manager (509) 454-7835

2 Phase 1 Sampling – January 2020

The following activities were conducted as part of the Phase 1 RI activities:

- On-site GeoProbe (direct push) for groundwater sampling
- Monitoring well sampling

Subsequent phases will be based on the results of Phase 1 activities. These phases will likely include additional direct push soil and groundwater sampling on site and off site, as well as additional groundwater monitoring well installations. Sampling drains and stormwater systems may also occur depending upon findings of subsequent phases.

2.1 Direct Push Groundwater Sampling and Monitoring Well Sampling

A total of 15 borings were completed as part of Phase 1 RI activities. Borings were drilled January 28 through January 30, 2020, and illustrated in **Figure 3**. Boring locations were chosen based on previous (2009) direct push boring locations and current groundwater monitoring wells. Emphasis was placed on borings along the east fence line, since this is hydraulically downgradient of the facility and will allow for pin-pointing potential upgradient source areas. Additionally, borings were emphasized in the northeast area where the former rinsate pit and former chemical storage area were located and the 2009 probe data showed several elevated COPC.

Six borings were drilled along the eastern fence line (BH-01 through BH-06) and two groundwater samples were collected from each boring, one at first encountered saturated conditions (first groundwater, was generally around the 8-foot range), and then at approximately 8 feet beneath this depth (due to the GeoProbe rig having 4-foot drilling lengths). This allowed for an assessment of groundwater quality with depth. For the remaining borings (BH-07 through BH-15) one groundwater sample was collected at the first encountered saturated conditions. In each of the borings, soils were wet around 4 feet and became saturated around 8 feet below ground surface. The GeoProbe rig uses a 4 foot screen for sampling of groundwater, and, in general, groundwater samples at 8 to 12 foot depth (BH-01 through BH-06 were also sampled from 16 to 20 feet below ground surface).

Soil samples were not proposed for Phase 1, rather groundwater sample analyses will be used to pin-point potential soil sampling activities in Phase 2.

In addition to the direct push activities, groundwater samples were collected from monitoring wells to determine depth to groundwater and groundwater flow direction. This provides information on groundwater gradient and flow direction during the time of sample collection and helps correlate direct push groundwater data with potential upgradient sources. These samples were collected on January 31, 2020, during the same event as the direct push boring activities.

2.2 Direct Push Sampling

Prior to advancing any ground disturbance activities, Simplot contacted Washington One Call (1-800-424-5555) to locate public utilities. HDR, contracted by Simplot, consulted with the facility

managers for the SGS property regarding knowledge of utilities. Utilities Plus, out of Yakima, Washington, checked the work area for private underground utilities. For any detected utilities, boreholes were moved at least 2 feet away from the underground utility. Water and natural gas where the two main buried utilities. No anomalies (buried unidentified objects giving a large metal signature) were found by Utilities Plus.

The standard operating procedure (SOP) for direct push sampling is presented in **Appendix E**. This SOP covers both soil sampling and groundwater sampling for a GeoProbe rig, or equivalent direct-push technology. Only groundwater samples were collected for Phase 1. Samples were collected at first encountered saturated conditions (generally starting at about 8 feet below ground surface), and for BH-01 through BH-06, a second sample was collected approximately 8 feet below the first. Sampling was conducted on January 28 through January 30, 2020. A duplicate sample and an equipment rinsate sample were collected during the direct push borings. Water samples were placed into laboratory supplied sampling bottles with appropriate preservatives. For RCRA metals, a portion of each water sample was filtered in the field using portable hand pump filter system with a 0.45 micro-meter filter (this allowed for dissolved metals).

Groundwater samples were preserved for the analyses to be performed as summarized in **Table GW-1** (**Appendix B**). **Table GW-2** (**Appendix B**) summarizes quality assurance/quality control (QA/QC) field samples collected. Laboratory reports and field notes are contained in **Appendix C** and a data validation report is contained in **Appendix D**.

After samples were collected, the borings were plugged with bentonite and soil cuttings were placed in a 55-gallon drum. Standard chain-of custody procedures were followed from the time samples were collected until the samples arrived at the laboratory (see chain-of-custody SOP in **Appendix E**).

Soils in boreholes generally consisted of silts and fine sands with trace clay. Boreholes 11, 10, 09, 08, and 07 had petroleum-like odors with BH-11 having the strongest odor. In addition, groundwater samples from BH-11, BH-10, BH-09, BH-08, BH-07, BH-05, BH-04, and BH-03 had detectable odors of petroleum. Grey soils were present in BH-01, BH-02, BH-03, BH-04, BH-08, BH-09, and BH-11 (some with petroleum odor, some without, see field notes in Appendix C). Photos from sampling are contained within **Appendix F**.

2.3 Monitoring Well Sampling

Groundwater samples were collected from the seven monitoring wells associated with the site as part of Phase 1 activities. Sampling followed the SOP for monitoring well sampling (**Appendix E**). Monitoring well sampling activities included the following:

- Purging wells with a disposable bailer.
- Measuring and recording field pH, conductivity, and temperature during purging.
- Collecting groundwater samples following static water measurements once field parameters were stable (three consecutive measurements within 10 percent) or when at least three well bore volumes had been purged.
- For RCRA metals, a portion of each water sample was filtered in the field using portable hand pump filter system with a 0.45 micro-meter filter (this allowed for dissolved metals).

- Preserving sample bottles according to analyses to be performed as summarized in **Table GW-1 (Appendix B)**.
- Shipping samples to Eurofins Test America in Tacoma, WA.
- Shipping a duplicate and a trip blank with the groundwater samples.

Purge water from groundwater sampling was placed in the aboveground storage tank basin for evaporation like groundwater sampling events in the past. Standard chain-of-custody procedures were followed from the time samples were collected until the time that samples arrived at the laboratory.

Table GW-2 (Appendix B) summarizes QA/QC field samples HDR collected.

Test America in Tacoma, Washington, followed appropriate laboratory QA/QC procedures as dictated by the U.S. Environmental Protection Agency (USEPA) method and the laboratory's SOPs. Lab reports and field forms are contained in **Appendix C** and a data validation report for the January 2020 sampling event is presented in **Appendix D**.

2.4 Groundwater Elevation and Flow Direction

Depth to groundwater at each monitoring well in January 2020 is presented in **Table GW-3 (Appendix B)**. **Figure 4 (Appendix A)** illustrates groundwater elevation contours for January 2020. The calculated shallow groundwater flow direction is to the southeast (approximately 99.79 degrees from north) at a gradient of 0.02640 feet per foot (ft/ft). Based on the observed groundwater flow, the following wells are deemed up, down, or cross-gradient as follows:

- MW-1 – upgradient well
- MW-2 – upgradient well
- MW-3 – side or downgradient well
- MW-4 – downgradient well
- MW-5R – downgradient well
- MW-6 – downgradient well (off-site)
- MW-7 – downgradient well (off-site)

2.5 Laboratory Results

Table GW-4 (Appendix B) summarizes the compounds detected in groundwater from January 2020 direct push groundwater sampling. **Table GW-5 (Appendix B)** summarizes the compounds detected in groundwater from monitoring well sampling since the start of sampling in 2011. Washington CLARC levels are shown in both tables for comparison to lab results. Values highlighted in yellow represent a constituent that exceeds one or all of the following CLARC levels (see **Table GW-6** and **Table GW-7** for full list of levels):

- Federal maximum contaminant limit (MCL)
- State MCL (groundwater quality standard)
- MTCA Method A Table Value
- MTCA Method B Carcinogen
- MTCA Method B Non-Carcinogen

Post plots of nitrate-nitrite and ammonium-nitrogen for the January 2020 GeoProbe and monitoring well sampling events are shown in **Figure 5** and **Figure 6 (Appendix A)** respectively. Nitrate-N exceeds the state and federal MCL of 10 milligrams per liter (mg/L) for the following samples:

- MW-1 and MW-4
- BH-01-W-8, BH-05-W-8, BH-07-W-8, BH-08-W-8, BH-09-W-8, BH-10-W-8, BH-13-W-8

In addition, the following constituents were detected in at least one monitoring well or GeoProbe boring above Washington CLARC levels during the January 2020 sampling event:

- **Benzene**: BH-01-W-8, BH-02-W-8, BH-06-W-8/16, BH-07-W-8, BH-08-W-8, BH-09-W-8, BH-10-W-8, BH-11-W-8.
- **1,2-Dichloroethane:** BH-01-W-8/16, BH-02-W-8/16, BH-08-W-8, BH-09-W-8, BH-10-W-8, BH-11-W-8, MW-5R
- **1,2-Dichloropropane:** BH-01-W-8, BH-02-W-16, BH-04-W-8, BH-05-W-8, BH-07-W-8, BH-08-W-8, BH-09-W-8. BH-10-W-8, MW-4,
- **Naphthalene:** BH-09-W-8, BH-10-W-8, BH-11-W-8
- **1,1,2,2-Tetrachloroethane:** BH-10-W-8
- **1,1,2-Trichloroethane:** BH-08-W-8
- **1,2,3-Trichloropropane:** BH-01-W-8/16, BH-04-W-8, BH-05-W-8/16, BH-09-W-8, BH-10-W-8
- **1,2,4-Trimethylbenzene:** BH-08-W-8, BH-09-W-8, BH-10-W-8, BH-11-W-8
- **1,3,5-Trimethylbenzene:** BH-09-W-8, BH-10-W-8, BH-11-W-8
- **Ethylene Dibromide (EDB):** BH-10-W-8
- **Dissolved Arsenic:** All borehole samples, MW-1, MW-2, MW-3, MW-4, MW-5R, MW-6, MW-7
- **2,4-D:** BH-09-W-8, BH-11-W-8
- **2-methyl-4-chlorophenoxyacetic acid (MCPA):** BH-09-W-8, BH-10-W-8, BH-15-W-8

Regulatory groundwater standards for selected constituents are presented in **Table GW-6** and **Table GW-7**.

A data validation report for the samples collected during Phase 1 activities is presented in **Appendix D**.

2.5.1 Nitrate-N Trends in Individual Wells

Table GW-8 summarizes nitrate-N concentrations for each well over the sampling period. Using XLstat software, HDR ran the Mann-Kendall Trend Test Analysis for nitrate concentrations in each well. Trend plots are presented in **Figure 7**. Results for the statistical trend analysis for nitrate-N are as follows (see bottom row in **Table GW-8**):

- Downgradient well MW-5R shows a decreasing trend.

- All other wells showed no statistically significant trend.

While the Mann-Kendall test reveals a decreasing trend in MW-5R and no statistically significant trend in the other six wells, the trend plots provide additional information on overall trends in each well:

- MW-1 (upgradient well) – shows a slight decreasing trend from 2011 through 2015, following which, nitrate-N concentrations were highly variable from April 2016 to December 2017. The last four sampling events show a slight increasing trend, with the January 2020 sampling event being nearly twice as high as the September 2018 sampling event.
- MW-2 (upgradient well) – shows a decreasing trend from 2011 through 2013, a slight increasing trend from 2014 through 2018, and a slight decrease from 2018 to 2020.
- MW-3 (side-gradient well) – shows high variability in nitrate-N concentrations over time. The past 10 sampling events show a decreasing trend in nitrate-N concentrations, with the January sampling event being higher than the 2018 event. Concentrations have been lower than 10 mg/L since December 2017.
- MW-4 (downgradient well) – shows high nitrate-N variability between sampling events. In general, the nitrate-N concentrations show a slight increasing trend since 2013 with some variability.
- MW-5R (downgradient well) – well was constructed following source area removal in 2012. Nitrate-N concentrations in this well had shown a decreasing trend since 2014, though nitrate-N concentrations remain above 10 mg/L, with the January 2020 nitrate-N concentration at 10mg/L.
- MW-6 and MW-7 (downgradient and off-site wells) – show nearly identical nitrate-N concentrations and have been below 10 mg/L with an average nitrate-N concentration of 2.3 mg/L.

3 Discussion and Recommendations

Groundwater samples were collected from 15 boreholes drilled using a GeoProbe drill rig and from the 7 monitoring wells associated with the site. For boreholes 01 through 06, two groundwater samples were collected, one at first encountered saturated conditions, and one approximately 8 to 10 feet deeper. Eight of the boreholes had soil and/or groundwater with a detectable petroleum odor. Fourteen compounds were detected in the groundwater samples from the GeoProbe borings and/or monitoring wells above Washington CLARC levels:

- Nitrate-N
- Benzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- Naphthalene
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- EDB
- Dissolved arsenic
- 2,4-D
- MCPA

Nitrate levels in boreholes ranged from <0.060 mg/L (BH-02-W-8/16 and BH-04-W-16) to 820 mg/L (BH-10). In the monitoring wells, nitrate-N was detected above the Washington CLARC level of 10 mg/L in MW-1 and MW-4. Well MW-5R had a nitrate-N level of 10 mg/L and has a statistically significant decreasing trend. All other wells show no statistically significant nitrate-N trend.

Table GW-9 illustrates groundwater results from the 2009 GeoProbe borings and **Table GW-10** presents a groundwater matrix table for all samples and analyses conducted at the site (**Figure 3** illustrates locations of these 2009 and 2020 borings).

Based on recommendations from Ecology, for further monitoring well sampling, well MW-5R will be renamed and referred to as MW-8 due to its distance from the original location of MW-5. As the well was labeled as MW-5R for this sampling event, and MW-8 was the duplicate sample, the well name was not changed for this sampling event. Additionally, the monitoring well duplicate for further sampling events will be labeled as a non-existent well with a higher number (e.g. MW-15, or something similar).

Based on the results of the January 2020 groundwater sampling, HDR recommends the following as part of Phase 2 RI activities:

- GeoProbe soil sampling as well as additional groundwater sampling is recommended. Following Ecology's review of this report, Simplot proposes to submit a boring map showing recommended locations for additional GeoProbe sampling. The goal of the sampling will be to better pinpoint potential source areas, assess potential for off-site contamination entering

the Simplot facility, and further assess downgradient groundwater conditions. Following submittal of the proposed sampling map, Simplot proposes a conference call with Ecology to discuss Phase 1 RI results and Phase 2 RI activities.

4 References

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2009a. Preliminary Site Investigation Work Plan. May 2009.

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2009c. Quality Assurance Project Plan. December 2009.

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Figures

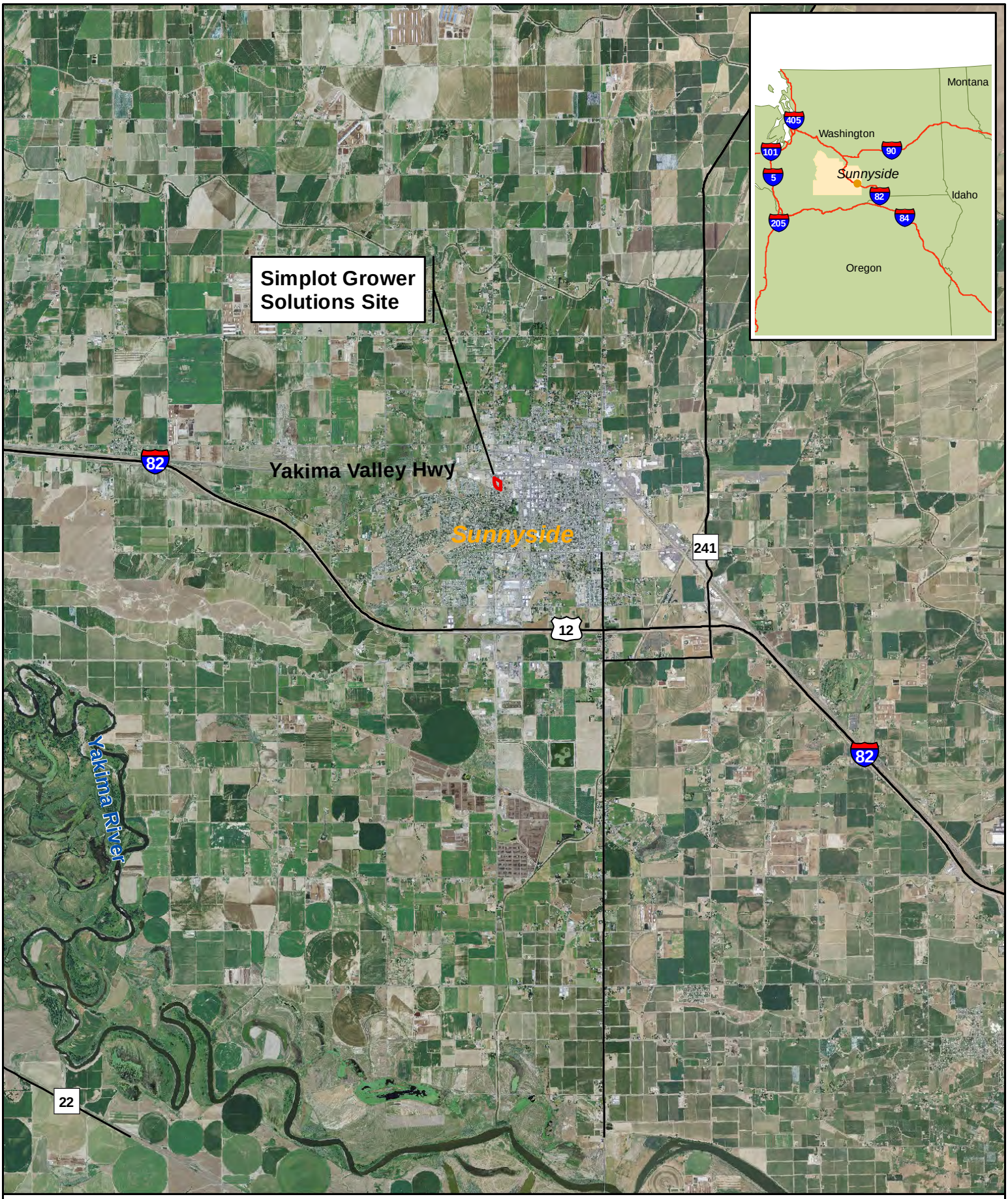

Figure 1: Vicinity Map

Simplot Grower Solutions, Sunnyside, WA

Imagery: 2009 NAIP 1 meter resolution
Source: NRCS/USDA Digitial Gateway

Map Date: Friday, May 18, 2012
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HDR | ONE COMPANY *Many Solutions*℠

0 200 400
Feet

Figure 2: Site Map 2018
Simplot Grower Solutions, Sunnyside, WA

Imagery: ESRI World Imagery Map Service, Image Date 10/18/2018
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Map Date: Monday, August 5, 2019
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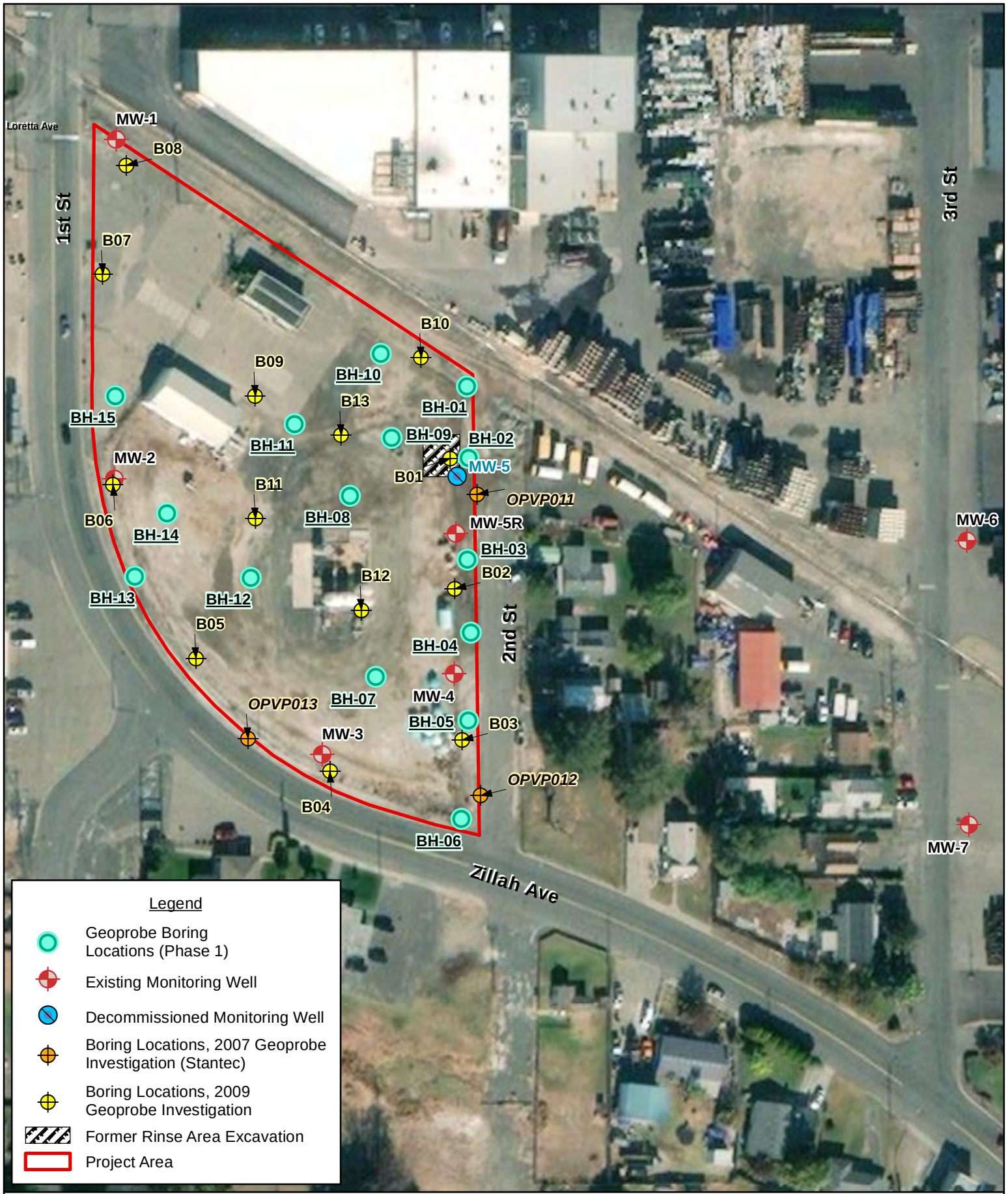

Figure 3: Geoprobe Boring Locations (Phase 1)

Simplot Grower Solutions, Sunnyside, WA

Imagery: ESRI World Imagery Map Service, Image Date 10/18/2018
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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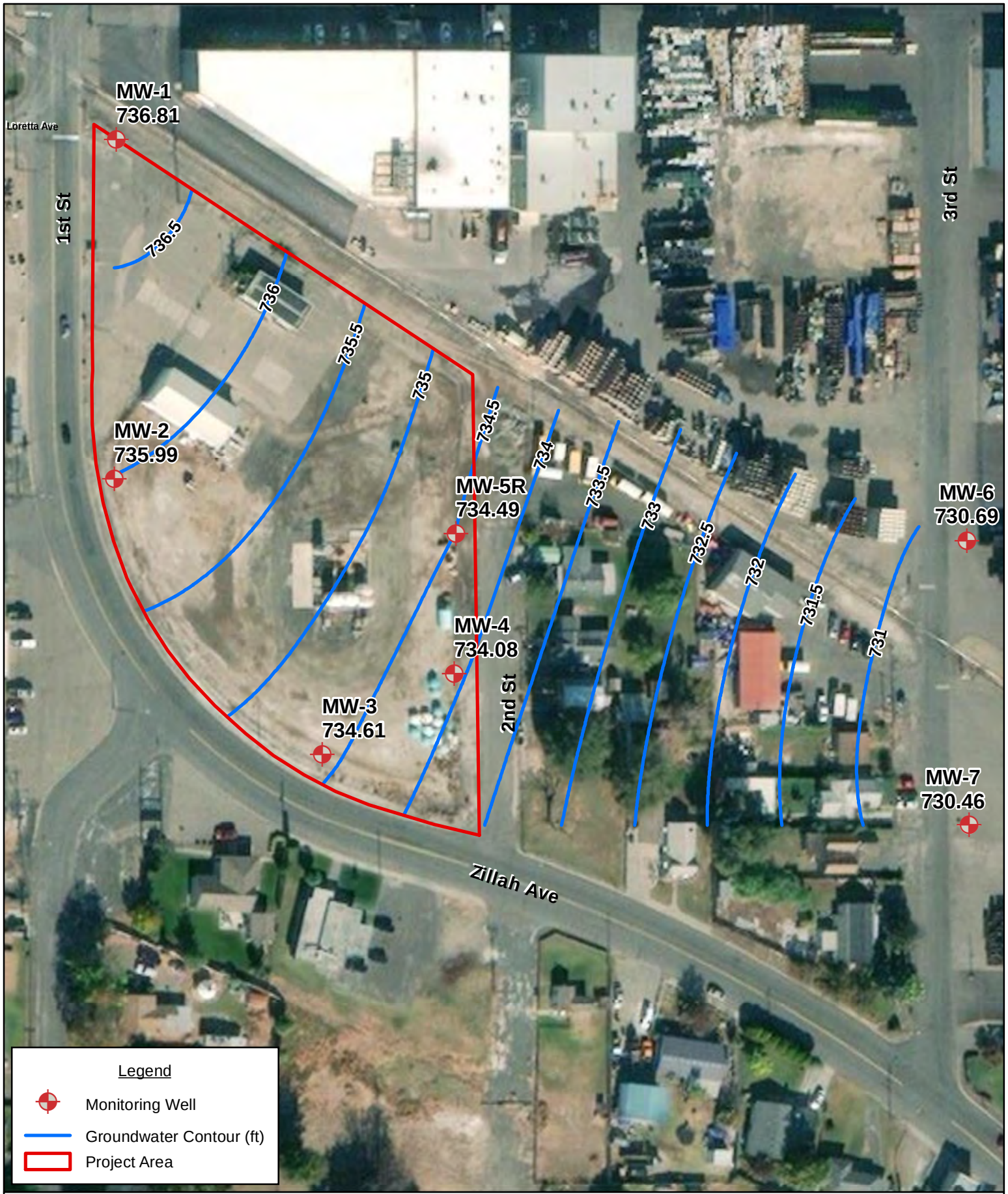

Figure 4: January 2020 Groundwater Elevation Contours
Simplot Grower Solutions, Sunnyside, WA

Imagery: ESRI World Imagery Map Service, Image Date 10/18/2018
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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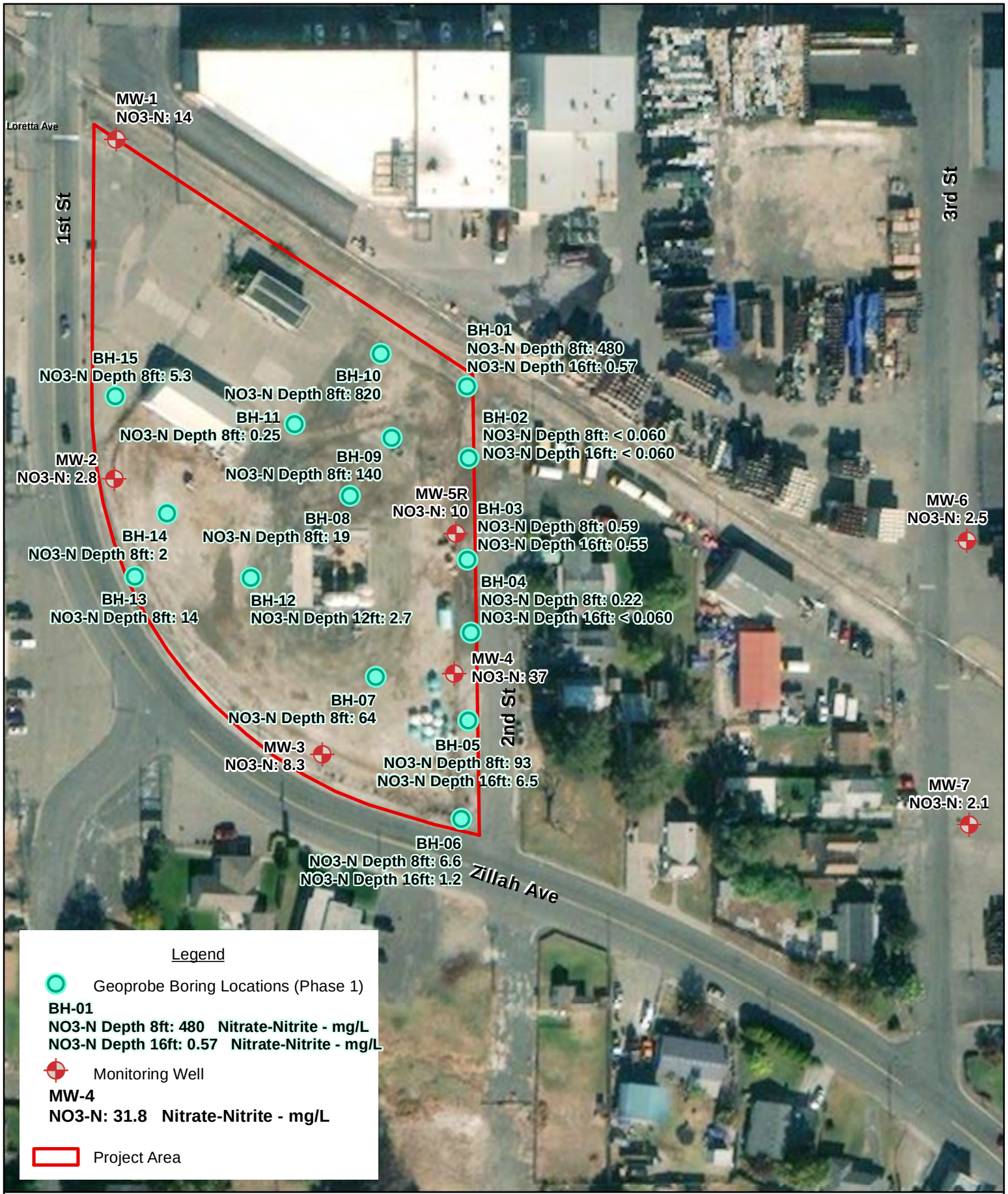

Figure 5: Nitrate-Nitrite Post Plot

Simplot Grower Solutions, Sunnyside, WA

Imagery: ESRI World Imagery Map Service, Image Date 10/18/2018
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Map Date: Monday, April 6, 2020
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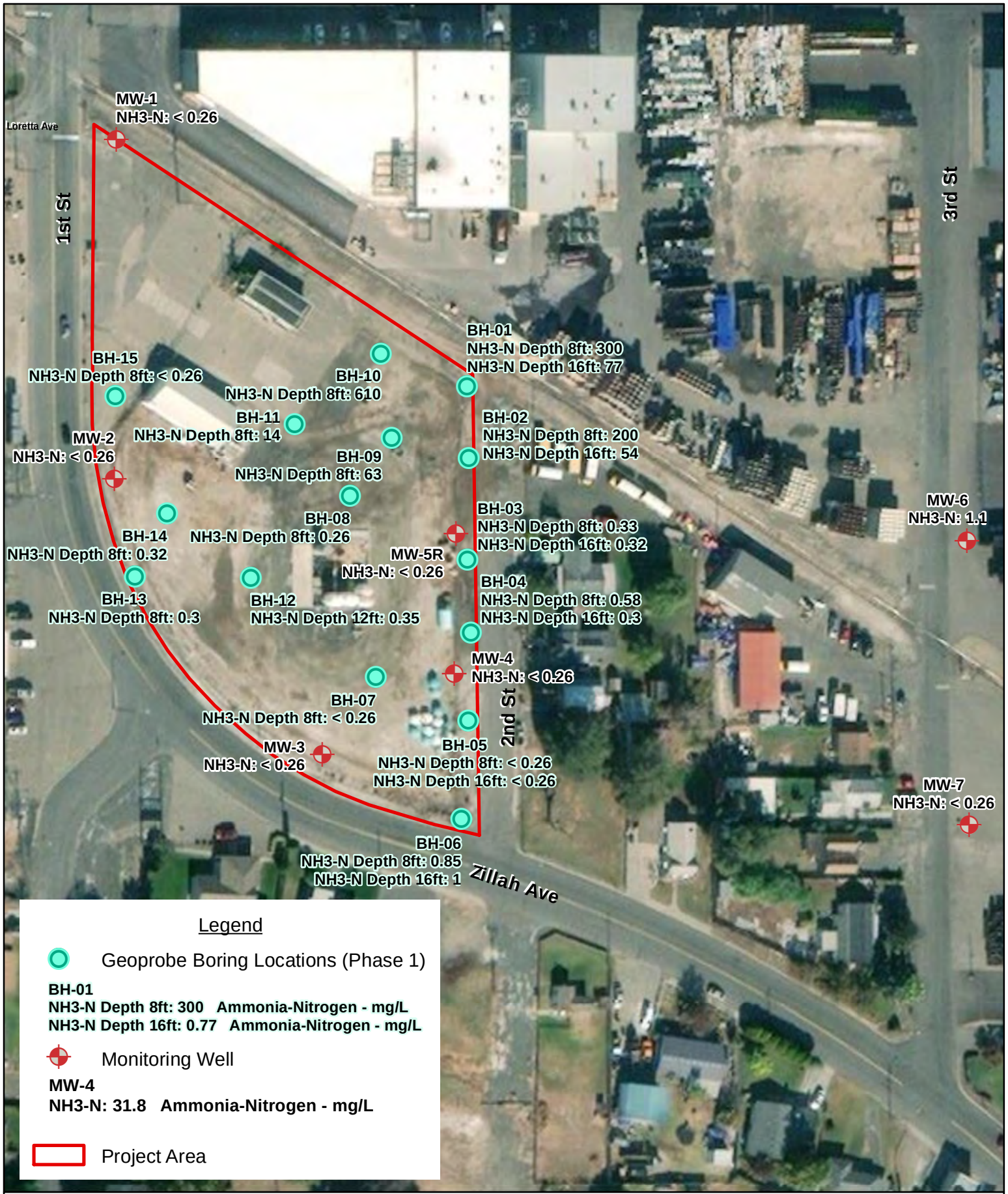

Figure 6: Ammonia-N Post Plot

Simplot Grower Solutions, Sunnyside, WA

Imagery: ESRI World Imagery Map Service, Image Date 10/18/2018
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Map Date: Monday, April 6, 2020
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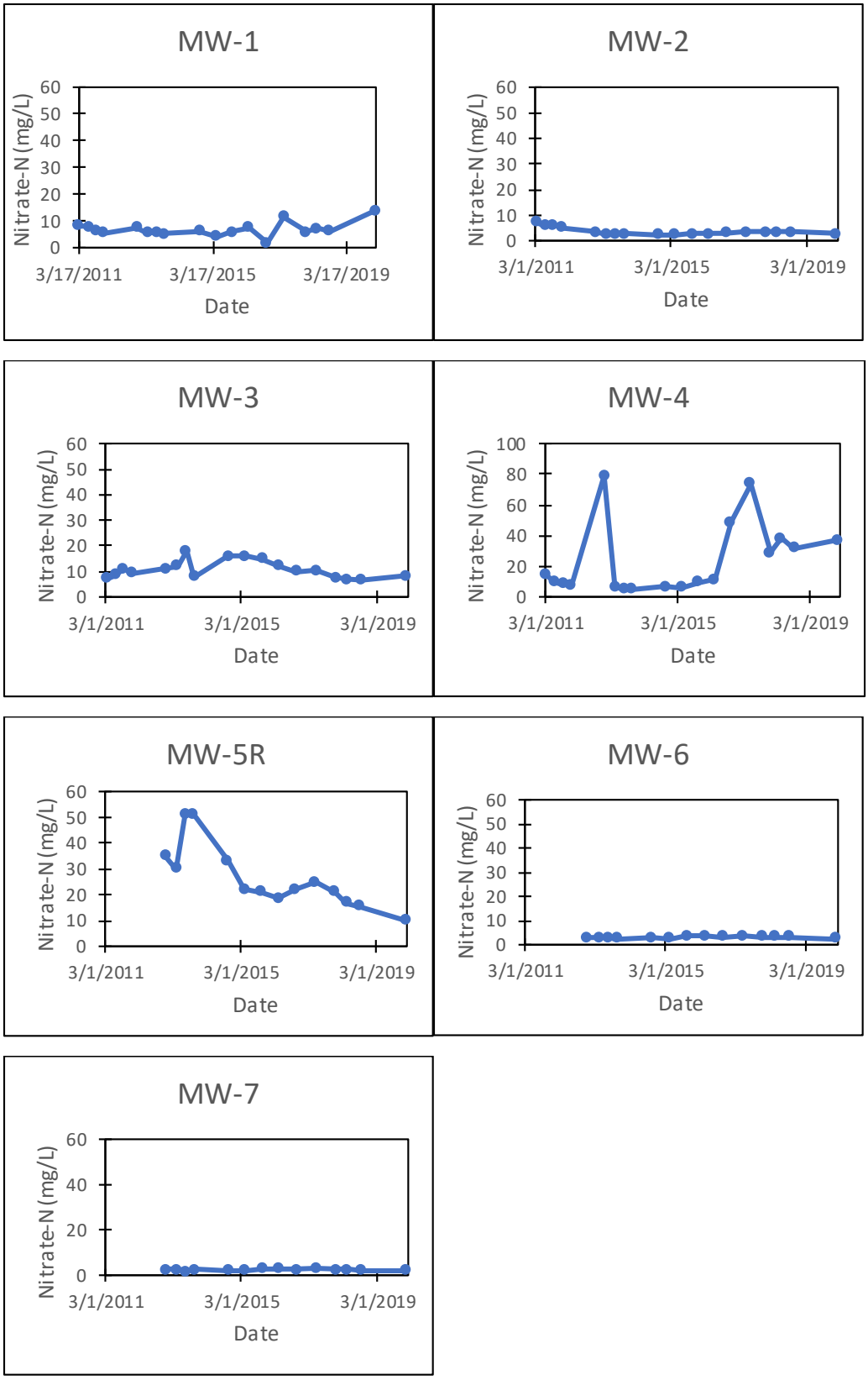
Figure 7. Nitrate-N Trend Plots



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Tables

Table 1. Site Timeline - Early Notice Letter to Present

Year	Date	Event
2008	October 1	Early Notice Letter from Ecology to Simplot.
2008	February 9	Simplot letter to Ecology indicating HDR has been hired and requesting a meeting.
2009	March 19	Simplot and Ecology meeting to discuss Volunteer Cleanup Program options.
2009	May	Simplot enters Volunteer Cleanup Program with Ecology.
2009	May	*Preliminary Site Investigation Work Plan* submitted to Ecology.
2009	July 7	Ecology opinion on Work Plan in letter to Simplot.
2009	September 23 and 24	Work plan field activities conducted including using a GeoProbe for sampling of soil and groundwater.
2009	December 17	*Preliminary Site Investigation Report* submitted to Ecology.
2010	June 4	Ecology response letter to the December 17, 2009 Preliminary Site Investigation Report.
2010	July	*Monitoring Well Construction and Sampling Work Plan* submitted to Ecology. Work plan included installation of five monitoring wells and quarterly sampling for one year.
2010	December	Ecology approval of work plan.
2011	March 15 and 16	Five groundwater monitoring wells installed.
2011	March 17	First quarter groundwater sampling.
2011	April	*Monitoring Well Construction and Sampling Report* submitted to Ecology.
2011	June 30	Second quarter groundwater sampling.
2011	September 15	Third quarter groundwater sampling.
2011	December 16	Fourth quarter groundwater sampling.
2012	May	*2011 Monitoring Well Sampling Report* submitted to Ecology
2012	May 24	Simplot and Ecology meeting in Yakima discuss monitoring results and next activities including need to assess off-site subsurface drains.
2012	June	Simplot coordinated with Sunnyside, WA, and SVID[1] on drain system layout.
2012	July	*Source Removal, Drain Evaluation, Monitoring Well Construction and Sampling Work Plan* submitted to Ecology.
2012	September 12	HDR met with SVID and Sunnyside, WA, representatives to investigate drain system and manhole access near the Simplot property. These manholes are part of the drain evaluation described in the July 2012 Work Plan.
2012	November 20	HDR letter to Ecology regarding “Modification to Source Removal and Additional Investigation Work Plan, July 2012” – recommended installation of off-site monitoring wells prior to drain study.
2012	November	Two offsite and one onsite monitoring wells installed. MW-5 abandoned due to rinsate area excavation.
2012	December 4 and 5	Rinsate area excavation and new round of well sampling including newly installed monitoring wells.
2013	February	*Source Removal, Drain Evaluation, Monitoring Well Construction, and Sampling Report* submitted to Ecology.

Table 1. Site Timeline - Early Notice Letter to Present

Year	Date	Event
2013	April	Supplemental drain evaluation conducted and monitoring wells sampled.
2013	July	Monitoring wells sampled.
2013	September	Supplemental Drain Evaluation and Monitoring Well Sampling Report submitted to Ecology. Report recommended meeting with Ecology to discuss next steps in project.
2013	October	Groundwater sampling, report submitted to Ecology.
2014	October	Groundwater sampling, report submitted to Ecology.
2015	April	Groundwater sampling, report submitted to Ecology.
2015	October	Groundwater sampling, report submitted to Ecology.
2016	April	Groundwater sampling, report submitted to Ecology.
2016	October	Groundwater sampling, report submitted to Ecology.
2017	May	Groundwater sampling, report submitted to Ecology.
2017	December	Groundwater sampling, report submitted to Ecology.
2018	April/June	Groundwater sampling, report submitted to Ecology.
2018	September	Groundwater Sampling, report submitted to Ecology.
2019	October	Draft Remedial Investigation Work Plan submitted to Ecology
2020	January	Groundwater Sampling - monitoring wells and GeoProbe borings, report submitted to Ecology (this report).

[1]SVID=Sunnyside Valley Irrigation District; HDR=HDR, Inc.

Table GW-1. Groundwater Analytical Methods

Analytical Parameter	Method	Preservative	Holding Times
Volatile Organic Compounds	USEPA 8260C	HCl and 4°C	14 days
Gasoline Range Organics (GRO)	NWTPH-Gx	HCl and 4°C	14 days
EDB	USEPA 8011	Sodium thiosulfate and 4°C	14 days
Chlorinated Herbicides	USEPA 8151A	4°C	7 days
Diesel Range Organics (DRO)	NWTPH-Dx	HCl and 4°C	14 days
RCRA[1] Metals (Dissolved arsenic, barium, cadmium, chromium, lead, selenium, silver); field filtered	USEPA 6020A	HNO_3	180 days
Dissolved Mercury (field filtered)	USEPA 7470A	HNO_3	180 days
Chloride	USEPA 300.0	4°C	28 days
Sulfate	USEPA 300.0	4°C	28 days
Nitrate Nitrite, as N	USEPA 353.2	H_2SO_4 and 4°C	28 days
Ammonia, as N	USEPA 350.1	H_2SO_4 and 4°C	28 days

[1] Resource Conservation and Recovery Act (RCRA) metals; USEPA=U.S. Environmental Protection Agency

Table GW-2. QA/QC Field Samples

QA/QC Type	Number of Samples	Description
Duplicate	1 sample from monitoring wells and 1 sample from GeoProbe borings	Duplicate is collected using the same sampling technique as the original sample
Trip Blank	1 trip blank per event	Water sample in sample bottle provided by laboratory and accompanies sample bottles
Equipment Rinsate	1 equipment rinsate blank per event	Pour distilled water down decontaminated boring equipment and into sample bottles.

Table GW-3. Depth to Groundwater and Groundwater Elevations for January 31, 2020

Well	Reference Elevation	Measured Depth to Water	Groundwater Elevations
	(feet)		
MW-1	745.76	8.95	736.81
MW-2	745.34	9.35	735.99
MW-3	745.58	10.97	734.61
MW-4	744.95	10.87	734.08
MW-5R	745.41	10.92	734.49
MW-6	743.46	12.77	730.69
MW-7	743.06	12.6	730.46

Table GW-4. Groundwater Sample Results – GeoProbe Sampling

	BH-01[1]		BH-02		BH-03		BH-04		BH-05		BH-06		BH-07	BH-08	BH-09	BH-10	BH-11	BH-12	BH-13	BH-14	BH-15	CLARC
Sample Date	1/30/20		1/30/20		1/29/20		1/29/20		1/29/20		1/29/20		1/29/20	1/29/20	1/29/20	1/28/20	1/28/20	1/28/20	1/28/20	1/28/20	1/28/20	
Depth (feet)	8	16	8	16	8	16	8	16	8	16	8	16	8	8	8	8	8	12	8	8	8	
Volatile Organic Compounds (VOCs), EPA Method 8260C (µg/L)																						
Benzene	6.7	0.18 J	3.3	0.035 J	<0.030	<0.030	0.072 J	<0.030	0.36	0.13 J	2.1	1.1	5.5	58	6100 H4	1800 H4	980 H4	<0.030	0.55	0.33	0.052 J	0.8
Bromobenzene	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	64
Bromoform	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	5.5
Bromomethane	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.26	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	11
Carbon tetrachloride	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.63
Chlorobenzene	0.17 J	0.025 J	0.5	0.057 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.080 J	0.29	0.59	<0.025	<0.025	<0.025	<0.025	<0.025	100
Chlorobromo-methane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.25	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	--
Chlorodibromo-methane	<0.055	<0.055	<0.055	<0.055	0.067 J	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	0.52
Chloroethane	<0.086	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	--
Chloroform	<0.030	<0.030	<0.030	<0.030	0.33	0.13 J	0.075 J	<0.030	<0.030	<0.030	<0.030	<0.030	0.034 J	<0.030	>0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.049 J	1.4
Chloromethane	0.22 J	0.38 J	0.30 J	0.29 J	0.16 J	0.19 J	0.31 J	0.15 J	0.64	0.31 J	0.39 J	0.21 J	0.16 J B	0.28 J	0.51	0.21 J	1	0.40 J	0.16 J	0.18 J	<0.15	--
2-Chlorotoluene	<0.12	<0.12	22 J	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	160
4-Chlorotoluene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	--
4-Isopropyltoluene	0.16 JB	0.14 J B	0.15 J B	0.15 J B	0.14 J B	0.14 J B	0.072 J	0.14 J B	0.15 J B	0.15 J B	0.15 JB	0.15 J B	0.15 J B	1.3 B	8.4 B	6.3 B	8.2 B	0.15 J B	0.15 J B	0.15 J B	0.15 J B	--
1,2-Dibromo-3-Chloropropane	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	0.055
Dibromomethane	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	80
1,2-Dichlorobenzene	0.33	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050 R2	<0.050	<0.050	600
1,3-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.085 J	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	--
1,4-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	8.1
Dichlorobromomethane	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	0.71
Dichlorodifluoromethane	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	1600
1,1-Dichloroethane	<0.025	<0.025	0.027 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.7	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	7.7
1,2-Dichloroethane	3	2.6	21	59	0.046 J	0.051 J	0.089 J	<0.043	<0.043	0.060 J	0.21	0.4	0.13 J	23	310 H4	24	110 H4	<0.043	0.060 J	0.046 J	<0.043	0.48
1,1-Dichloroethene	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	7
cis-1,2-dichloroethene	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	16
1,2-dichloropropane	1.4	0.33	0.88	1.4	0.65	0.62	340	0.38	4	0.18	0.12 J	0.13 J	31	16	80	31	<0.060	<0.060	<0.060	<0.060	<0.060	1.2
1,1-dichloropropene	0.053 J	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	0.052 J	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	--
1,3-dichloropropene	0.12 J	<0.056	<0.056	<0.056	<0.056	<0.056	0.080 J	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	0.10 J	<0.056	<0.056	<0.056	<0.056	<0.056	0.44
cis-1,3-dichloropropene	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	0.15 J B	0.15 J B	0.15 J	<0.090	<0.090	<0.090	<0.090	<0.090	0.15 J B	<0.090	--
2,2-dichloropropane	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	--
Ethylbenzene	<0.030	<0.030	<0.030	<0.030	0.035 J	<0.030	0.047 J	<0.030	<0.030	<0.030	0.052 J	0.041 J	0.062 J	8.4	17	0.73	380 H4	<0.030	<0.030	<0.030	0.050 J	700
Hexachlorobutadiene	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	0.56
Isopropylbenzene	0.46 J B	0.29 J	0.35 J B	0.29 J B	0.29 J B	0.29 J B	0.15 J B	0.29 JB	0.30 J B	0.30 J B	0.34 J B	0.32 J B	0.34 J B	7.3 B	84 B	87 B	46 B	0.29 J B	0.29 J B	0.29 J B	0.29 J B	800
Methylene Chloride	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	5

Table GW-4. Groundwater Sample Results – GeoProbe Sampling

	BH-01[1]		BH-02		BH-03		BH-04		BH-05		BH-06		BH-07	BH-08	BH-09	BH-10	BH-11	BH-12	BH-13	BH-14	BH-15	CLARC
Sample Date	1/30/20		1/30/20		1/29/20		1/29/20		1/29/20		1/29/20		1/29/20	1/29/20	1/29/20	1/28/20	1/28/20	1/28/20	1/28/20	1/28/20	1/28/20	
Depth (feet)	8	16	8	16	8	16	8	16	8	16	8	16	8	8	8	8	8	12	8	8	8	
m-Xylene & p-Xylene	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	0.23 J	<0.12	0.21 J	0.16 J	0.49 J	0.42 J	0.85	68	710 H4	850 H4	980 H4	<0.12	0.29 J	0.14J	<0.12	1600
Methyl tert-butyl ether	<0.070	<0.070	<0.070	<0.070	<0.070	0.075 J	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	0.095 J	<0.070	<0.070	0.17 J	<0.070	<0.070	<0.070	<0.070	20
Naphthalene	0.37 J B	0.36 J B	0.36 J B	0.36 J B	0.35 J B	0.35 J B	0.50 J B	0.35 J B	0.55 J B	0.57 J B	0.61 J B	0.79 J B	0.91 J B	60 B	790 H4 B	420 H4 B	250 H4 B	0.35 J B	0.82 J B	0.55 J B	0.38 J B	160
n-Butylbenzene	0.26 J B	0.16 J B	0.17 J B	<0.080	0.16 J B	0.15 J B	0.20 J B	0.15 J B	<0.080	0.22 J B	0.22 J B	0.44 J B	0.43 J B	28 B	180 H4 B	62 H4 B	220 H4 B	0.16 J B	0.22 J B	0.18 J B	0.16 J B	400
n-Propylbenzene	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	0.093 J	<0.091	<0.091	12	75 H4	39 H4	150 H4	<0.091	<0.091	<0.091	<0.091	800
o-Xylene	0.19 J B	0.16 J B	0.17 J B	0.16 J B	0.18 J B	0.16 J B	0.26 J B	0.16 J B	0.29 J B	.26 J B	0.46 J B	0.44 J B	0.69 B	19 B	410 H4 B	1400 H4 B	4.0 B	0.16 J B	0.25 J B	0.22 J B	0.18 J B	1600
sec-Butylbenzene	0.29 J	<0.17	0.22 J	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	3	10	8.8	9.3	<0.17	<0.17	<0.17	<0.17	800
Styrene	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	11	9.5	0.81	<0.19	<0.19	<0.19	<0.19	100
1,1,1,2-Tetrachloroethane	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	1.7
1,1,2,2-Tetrachloroethane	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	0.77	<0.056	<0.056	< 0.056	<0.056	<0.056	0.22
Tert-Butylbenzene	0.13 J B	0.13 J B	0.13 J B	0.13 J B	0.12 J B	0.12 J B	0.12 J B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.12 JB	0.12 J B	<0.10	800
Tetrachloroethene	0.74	0.12 J	0.090 J	0.11 J	0.087 J	0.090 J	0.14 J	<0.084	<0.084	0.084 J	<0.084	0.11 J	0.15 J	0.15 J	0.31 J	2.9	0.17 J	<0.084	0.18 J H4	0.11 J	0.27 J	5
Toluene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.073 J	0.070 J	0.53	18	3.6	3	<0.050	<0.050	<0.050	0.091 J	640
trans-1,2-Dichloroethene	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	100
trans-1,3-Dichloropropene	0.10 J	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	0.44
1,2,3-Trichlorobenzene	0.17 J	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	--
1,2,4-Trichlorobenzene	0.24 J B	0.16 J B	0.16 J B	0.16 J B	<0.072	<0.072	0.16 J B	0.16 J B	0.16 J B	<0.072	0.17 J B	0.16 J B	0.16 J B	<0.072	<0.072	<0.072	<0.072	<0.072	0.17 J B	0.16 J B	0.16 J B	1.5
1,1,1-Trichloroethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.053 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	200
1,1,2-Trichloroethane	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	0.32	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	8.7	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	0.77
Trichloroethene	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	0.24	<0.066	<0.066	<0.066	<0.066	<0.066	0.54
Trichlorofluoro-methane	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	2400
1,2,3-Trichloropropane	0.44	0.086 J	<0.050	<0.050	<0.050	<0.050	1.1	<0.050	0.2	0.069 J	<0.050	<0.050	<0.050	<0.050	11	11	<0.050	<0.050	< 0.050	<0.050	<0.050	0.0015
1,2,4-Trimethylbenzene	0.12 J B	0.12 J B	0.094 J B	0.11 J B	0.098 J B	0.098 J B	0.29 J B	0.096 J B	0.38 B	0.38 B	0.55 B	0.90 B	1.2 B	100 H4	1100 H4 B	670 H4 B	1300 H4 B	0.095 J B	0.28 J B	0.20 J B	0.14 J B	80
1,3,5-Trimethylbenzene	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.050	<0.15	0.18 J	0.17	0.24 J	0.40 J	0.48 J	59	520 H4	190 H4	390 H4	<0.15	<0.15	<0.15	<0.15	80
Vinyl chloride	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.13	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.029
NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (mg/L)																						
Gasoline	<0.10	<0.10	<0.25	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1.7	16	13	16	<0.10	<0.25	<0.10	<0.10	--
NWTPH-Dx – Northwest – Volatile Petroleum Products (GC) (mg/L)																						
#2 Diesel (C10-C24)	0.59	0.093 J	0.73	0.075 J	0.075 J	0.067 J	<0.066	<0.069	<0.070	<0.072	<0.068	0.6	<0.066	0.9	19	7.4	5.4	<0.069	<0.072	<0.074	0.076 J	--
Motor Oil (>C24-C36)	0.37 J	0.22 J	1.8	0.12 J	0.15 J	0.12 J	0.14 J	0.13 J	<0.10	<0.11	0.16 J	0.30 J	0.15 J	0.26 J	0.49	0.32 J	0.46	<0.10	<0.11	<0.11	<0.11	--
8011 - EDB																						
1,2-Dibromoethane (EDB)	<0.0056	<0.0056	<0.0057	<0.0056	<0.0059	<0.0056	<0.0057	<0.0057	<0.0061	<0.0056	<0.0058	<0.0057	<0.0058	<0.0060	<0.0057	0.15	<0.0061	<0.0057	<0.0059	<0.0058	<0.0056	0.01
7470A - Mercury (CVAA) – Dissolved (ug/L)																						
Mercury	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	2

Table GW-4. Groundwater Sample Results – GeoProbe Sampling

	BH-01[1]		BH-02		BH-03		BH-04		BH-05		BH-06		BH-07	BH-08	BH-09	BH-10	BH-11	BH-12	BH-13	BH-14	BH-15	CLARC
Sample Date	1/30/20		1/30/20		1/29/20		1/29/20		1/29/20		1/29/20		1/29/20	1/29/20	1/29/20	1/28/20	1/28/20	1/28/20	1/28/20	1/28/20	1/28/20	
Depth (feet)	8	16	8	16	8	16	8	16	8	16	8	16	8	8	8	8	8	12	8	8	8	
6020A - Metals (ICP/MS) – Dissolved (µg/L)																						
Arsenic	210	11	420	2.7 J	74	3.7 J	39	4.6 J	38	11	17	10	36	95	30	42	120	63	61	71	13	0.058
Barium	120	75	57	50	57	79	73	42	42	29	65	220	88	120	38	180	280	56	60	47	270	2000
Cadmium	0.54 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1 J	<0.5	<0.5	<0.5	0.71 J	5
Chromium	1.3 J	1.1 J	<0.87	4.1	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	1.2 J	6.5	<0.87	1.8 J	<0.87	1.3 J	<0.87	1.7 J	<0.87	<0.87	4	50
Lead	<1	<1	<1	12	<1	<1	1.1 J	<1	<1	<1	2.8 J	5.3	2.2 J	5.2	7.9	7.3	2.1 J	1.2 J	1.9 J	<1	8.9	15
Selenium	<10	<10	<10	<10	<10	11 J	<10	<10	12 J	<10	23 J	<10	<10	<10	13 J	<10	<10	<10	<10	<10	<10	50
Silver	<0.28	<0.28	<0.28	<0.28	<0.28	0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	80
8151A - Herbicides (GC) (µg/L)																						
2,4-D	4.2	<0.53	0.58 J	<0.54	5.1	<0.51	12	<0.52	<0.55	<0.53	6.8	<0.56	<0.53	6.6	150	<6.1	170 J	<0.54	<0.54	<0.63	<0.63	70
Dalapon	0.95 J p	<0.91	<0.90	<0.94	<0.90	<0.88	<1.0	<0.90	<0.96	<0.92	<1.0	<0.97	<0.91	1.8 J	<10	<11	<100	<0.93	<0.94	<1.1	<1.1	200
2,4-DB	<0.77	<0.75	<0.74	<0.77	<0.74	<0.73	<0.84	<0.74	<0.79	<0.75	<0.83	<0.79	<0.75	<0.81	<8.3	<8.7	<83	<0.76	<0.77	<0.89	<0.89	130
Dicamba	0.76 J	<0.44	0.68 J	1.1 J p	<0.43	<0.42	<0.49	<0.43	<0.46	<0.44	<0.48	<0.46	<0.44	4.5	27	<5.1	<48	<0.45	<0.45	<0.52	<0.52	480
Dichloroprop	<0.67	<0.65	<0.64	<0.67	<0.64	<0.63	<0.73	<0.64	<0.68	<0.65	<0.72	<0.69	<0.65	<0.70	<7.2	<7.6	<72	<0.66	<0.67	<0.78	<0.78	--
Dinoseb	<0.46	<0.45	2.6	<0.47	<0.45	<0.44	<0.50	<0.44	<0.47	<0.45	<0.50	<0.48	<0.45	<0.49	<5.0	<5.2	<50	<0.46	<0.46	<0.54	<0.54	7
MCPA	<49	<48	<47	<49	<47	<46	<53	<47	<50	<48	<53	<50	<48	<51	960 J P	1100 J p	<5300	<49	<49	<57	61 J	8
MCPP	410	160 J	<33	<34	<33	<32	<37	<33	<35	<33	<37	<35	<33	<36	2300 J P	<380	<3700	<34	<34	<39	<39	16
2,4,5-T	<0.47	<0.46	<0.45	<0.47	<0.45	<0.44	<0.51	<0.45	<0.48	<0.46	<0.50	<0.48	<0.46	<0.49	<5.0	<5.3	<50	<0.47	<0.47	<0.54	<0.54	160
2,4,5-TP (Silvex)	<0.17	<0.17	<0.17	<0.18	<0.17	<0.17	<0.19	<0.17	<0.18	<0.17	<0.19	<0.18	<0.17	<0.18	<1.9	<2.0	<19	<0.17	<0.17	<0.20	<0.20	50
Picloram	<0.25	<0.24	<0.24	<0.25	<0.24	<0.23	<0.27	<024	<0.25	<0.24	<0.27	<0.25	<0.24	<0.26	<2.7	<2.8	28 J p	<0.25	<0.25	<0.29	<0.29	500
General Chemistry (mg/L)																						
Nitrate-Nitrite	480	0.57	<0.060	<0.060	0.59	0.55	0.22	<0.060	93	6.5	6.6	1.2 J	64	19	140 F1	820	0.25	2.7	14	2	5.3	10
Ammonia-Nitrogen	300	77	200	54	0.33 J	0.32 J	0.58	0.30 J	<0.26	<0.26	0.85	1	<0.26	0.26 J	63	610	14	0.35 J	0.30 J	0.32 J	<0.26	--
Chloride	240	110 B	170 B	67 B	99 B	90 B	110 B	20 B	31 B	210 B	140 B	110 B	200 B	150 B	890 B	310 B	190 B	19 B	120 B	27 B	88 B	--
Sulfate	900	470	300	280	560	360	360	90	190	460	520	240	360	370	870	1600	190	110	270	110	200	--

[1] BH = borehole; J = Result is less than the reporting limit but greater than or equal to the method detection limit, concentration is approximate; B = Compound was found in the blank and the sample; p = the %RPD between the primary and confirmation column/detector is >40%. Lower value has been reported; H4 = Container indicated preservation, however measured pH was >2 at time of analysis. Analysis date was more than 7 days from sampling date, as required for samples not preserved to pH<2.

Highlighted cells exceed Washington State CLARC levels.

Table GW-5. Summary of Compounds Detected in Monitoring Wells

Detected Compounds	3/17/2011	6/30/2011	9/15/2011	12/16/2011	12/5/2012	4/4/2013	7/24/2013	10/9/2013	10/28/2014	4/29/2015	10/14/2015	4/19/2016	10/31/2016	5/3/2017	12/28/2017	4/25/2018	9/11/2018	1/31/2020	CLARC
MW-1																			
Sulfate (mg/L)	NA	NA	NA	NA	NA	140	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160	--
Chloride (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42	--
Ammonia-Nitrogen (mg/L)	0.52[1]	0.77	0.49	0.66	0.16	0.17	0.18	0.14	<0.25	<0.25	0.0414	0.075	0.124	0.112	<0.100	<0.10	<0.10	<0.26	--
Nitrate-Nitrite (mg/L)	8.3	7.8	6.4	5.6	7.5	5.5	5.9	5.1	6.2	4.1	5.78	7.6	1.8	11.5	5.71	7.2	6.2	14	10
Arsenic (dissolved) (ug/L)	<20	49	38	36	34	37	<20	40	43	30	47.8	41.8	42.3	40.2	47.3	86.1	39.6	36	0.058
Barium (dissolved) (ug/L)	65	120	53	34	90	40	57	51	64	57	55.4	51.2	68.1	72.1	52.4	1490	122	100	2000
Cadmium (dissolved) (ug/L)	<5	5.5	<5	<5	<5	<5	5.8	<5	<5	1.5	<5	<5	<5	<2	<2	1.1	<0.08	<0.5	5
Chromium (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.1	1.1	50
Lead (dissolved) (ug/L)	11	<5	<5	<5	<5	<5	<5	<20	<20	<20	4.55	<20	<20	<5	<5	43.8	3.3	<1	15
Selenium (dissolved) (ug/L)	<20	38	<20	<20	<20	<20	20	<20	<20	8.8	9.02	<20	<20	9.24	8.41	11.6	5.4	<10	50
Silver (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.68	<0.5	<0.28	80
Trichloroethene (ug/L)	3.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.4	<0.4	<0.066	0.54
Residual Range Org. (mg/L)	<0.32	<0.25	0.44	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	NA	NA	NA	NA	NA	NA	NA	--
Diesel Range Org. (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.045	NA	NA	NA	NA	NA	NA	NA	NA	--
Motor Oil (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.24	--
Benzo (a) anthracene (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0079	NA	NA	NA	NA	NA	NA	NA	NA	--
Naphthalene (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.027	<1	<1	<1	<5	<5	<4	<4	<0.22	160
1-Methylnaphthalene (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0095	NA	NA	NA	NA	NA	NA	NA	NA	--
2-Methylnaphthalene (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.012	NA	NA	NA	NA	NA	NA	NA	NA	--
MW-2																			
Sulfate (mg/L)	NA	NA	NA	NA	NA	290	340	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200	--
Chloride (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	--
Ammonia-Nitrogen (mg/L)	0.17	<0.10	0.22	0.18	<0.10	<0.10	0.1	0.077	<0.25	<0.25	<0.25	0.063	<0.25	0.12	<0.100	<0.10	<0.1	<0.26	--
Nitrate-Nitrite (mg/L)	7.1	5.8	6.2	5.1	3.4	2.5	2.6	2.8	2.2	2.2	2.6	2.81	2.98	3.4	3.28	3.5	3.3	2.8	10
Arsenic (dissolved) (ug/L)	58	81	110	83	60	67	29	64	60	47	53	50.5	55.1	54.3	61.8	65.9	72.2	53	0.058
Barium (dissolved) (ug/L)	37	91	49	37	53	56	64	61	70	82	89	60.6	60	49.5	37.8	181	204	48	2000
Cadmium (dissolved) (ug/L)	<5	<5	<5	<5	<5	<5	5.3	<5	<5	1.2	<5	<5	<5	2	<2	0.11	0.11	<0.5	5
Chromium, (dissolved) (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.6	8.7	<0.87	50
Lead (dissolved) (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.2	6.1	<1	15
Selenium (dissolved) (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.3	2.7	<10	50
Trichloroethene (ug/L)	1.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.4	<0.066	0.54
Diesel Range Organics (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.049	NA	NA	NA	NA	NA	NA	NA	<0.069	--
Residual Range Organics (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.18	--
Benzo(a)anthracene (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0074	NA	NA	NA	NA	NA	NA	NA	NA	--
Benzo(b)fluoranthene (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0021	NA	NA	NA	NA	NA	NA	NA	NA	--
MW-3																			
Sulfate (mg/L)	NA	NA	NA	NA	NA	590	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	410	--
Chloride (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	71	--
Ammonia-Nitrogen (mg/L)	0.15	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	0.086	<0.25	<0.25	0.0853	0.058	<0.25	0.047	<0.100	<0.10	<0.10	<0.26	--
Nitrate-Nitrite (mg/L)	7	8.5	11	9.3	11	12	18	7.7	16	16	14.9	12.1	10.1	10.4	7.49	6.7	6.6	8.3	10
Arsenic (dissolved) (ug/L)	27	62	38	62	36	50	<20	39	46	26	55.4	52.1	52	59.8	57	91.6	50.5	56	0.058
Barium (dissolved) (ug/L)	72	53	46	38	46	43	46	44	45	44	242	34.4	38.2	34.2	32.4	1030	58.2	32	2000
Cadmium (dissolved) (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4	<0.08	<0.5	5
Chromium, (dissolved) (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.94	<10	1.48	<10	<10	59.2	1.3	<0.87	50
Lead (dissolved) (ug/L)	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	16	<5	<5	<5	<5	35.6	0.73	<1	15
Selenium (dissolved) (ug/L)	36	95	<20	21	34	40	65	38	34	31	35.8	27.3	25.9	26.2	20.1	23.1	16.9	18	50
Trichloroethene (ug/L)	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.4	<0.4	<0.066	0.54
Diesel Range Organics (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.17	NA	NA	NA	NA	NA	NA	NA	0.2	--
Residual Range Organics (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11	NA	NA	NA	NA	NA	NA	NA	0.26	--
Naphthalene (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.027	<1	<1	NA	<5	<5	4	<4	<0.22	160
1,2-Dichloroethane (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.092	0.48
Chloromethane (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.18	--
MW-4																			
Sulfate (mg/L)	NA	NA	NA	NA	NA	140	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	190	--
Chloride (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	--
Ammonia-Nitrogen (mg/L)	0.24	<0.10	0.11	0.4	<0.10	<0.10	0.11	0.074	<0.25	<0.25	<0.25	0.048	<0.25	0.039	<0.100	0.1	<0.10	<0.26	--
Nitrate-Nitrite (mg/L)	14	9.6	8.4	7.8	79	6.7	5.1	4.8	6.6	6.2	9.66	11.1	123 (48.4)[2]	74	28.5	38	31.8	37	10
Arsenic (dissolved) (ug/L)	<20	40	28	31	24	24	<20	27	32	17	30.2	25.1	35.6	31.5	27.3	47.7	32.4	28	0.058
Barium (dissolved) (ug/L)	54	43	110	41	130	38	39	40	49	55	43	36.2	97.4	38.6	43.6	586	263	56	2000
Cadmium (dissolved) (ug/L)	<5	<5	<5	<5	<5	<5	6.4	<5	<5	0.81	<5	<5	<5	<2	<2	0.32	0.13	<0.5	5
Chromium (dissolved) (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.4	11.3	<0.87	50
Lead (dissolved) (ug/L)	21	<5	6.2	<5	<5	<5	<5	<5	<5	<5	5.41	<5	<5	<5	<5	23.4	9.2	<1	15
Selenium (dissolved) (ug/L)	<20	39	<20	<20	<20	<20	23	<20	<20	<20	<20	<20	28.9	21.8	8.9	7.4	4.8	<10	50

Table GW-5. Summary of Compounds Detected in Monitoring Wells

Detected Compounds	3/17/2011	6/30/2011	9/15/2011	12/16/2011	12/5/2012	4/4/2013	7/24/2013	10/9/2013	10/28/2014	4/29/2015	10/14/2015	4/19/2016	10/31/2016	5/3/2017	12/28/2017	4/25/2018	9/11/2018	1/31/2020	CLARC
Residual Range Organics (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.19	--
1,2-Dichloropropane (ug/L)	14	16	5.6	4	65	5.4	5	4.6	6.3	6.3	6.89	7.52	60.3	49.2	42.8	68.6	64.9	69	1.2
Benzo(a)anthracene (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.088	NA	NA	NA	NA	NA	NA	NA	NA	--
Naphthalene (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.049	NA	NA	NA	<5	<5	<4	<4	<0.22	160
MW-5																			
Ammonia-Nitrogen (mg/L)	860	480	850	370	Well abandoned (November-2012) due to excavation														--
Nitrate-Nitrite (mg/L)	530	200	310	290															10
Arsenic (dissolved) (ug/L)	74	180	160	230															0.058
Barium (dissolved) (ug/L)	120	40	38	54															2000
Cadmium (dissolved) (ug/L)	<5	6.1	<5	<5															5
Lead (dissolved) (ug/L)	7.4	<5	<5	<5															15
Gasoline Range Organics (mg/L)	1.5	1.5	0.86	1.8															--
Acrolein (ug/L)	<250	<250	<50	68															--
Benzene (ug/L)	180	160	77	140															0.8
Chlorobenzene (ug/L)	5.6	5.5	3.5	4.2															100
2-Chlorotoluene (ug/L)	<5	<5	<1	3															160
1,2-Dichloroethane (ug/L)	180	110	82	180															7.7
1,2-Dichloropropane (ug/L)	12	9.1	5.2	9.3															1.2
Ethylbenzene (ug/L)	<5	<5	1.1	1.1															700
Isopropylbenzene (ug/L)	<5	<5	2.4	3.2															800
n-Propylbenzene (ug/L)	6.8	7.2	5	7.1															800
1,2,4-Trimethylbenzene (ug/L)	82	68	48	84															80
1,2,3-Trimethylbenzene (ug/L)	24	20	12	21															--
1,3,5-Trimethylbenzene (ug/L)	24	21	15	24															80
Xylenes, Total (ug/L)	250	200	140	200															--
Diesel Range Organics (mg/L)	1.5	1.4	0.61	2															--
Residual Range Organics (mg/L)	<0.32	<0.25	<0.25	0.26															--
Fluorene (ug/L)	<0.05	<0.05	<0.05	0.055															--
Naphthalene (ug/L)	26	16	17	28															160
Phenanthrene (ug/L)	<0.05	<0.05	<0.05	0.26															--
Pyrene (ug/L)	<0.05	<0.05	<0.05	0.053															--
1-Methylnaphthalene (ug/L)	4.4	3	2.6	3.9															--
2-Methylnaphthalene (ug/L)	6.1	4	3.4	4.8															--
2,4-D (ug/L)	<2	<2	30	36															70
Dinoseb (ug/L)	8.8	9.4	9.8	<10															7
MW-5R																			
Sulfate (mg/L)	Well installed November 2012				NA	350	340	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	290	--
Chloride (mg/L)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	88	--
Ammonia-Nitrogen (mg/L)					0.17	0.1	0.1	<0.10	<0.25	<0.25	<0.25	0.059	<0.25	0.058	<0.100	<0.10	<0.10	<0.26	--
Nitrate-Nitrite (mg/L)					35	30	51	51	33	22	21	18.4	22	24.8	21.1	16.8	15.3	10.0	10
Arsenic (dissolved) (ug/L)					50	66	27	64	81	68	86.9	78.1	80.9	75.9	78.3	95.6	63.2	63	0.058
Barium (dissolved) (ug/L)					54	35	40	35	36	31	107	32.5	39.6	35.2	36.1	493	282	35	2000
Cadmium (dissolved) (ug/L)					<5	<5	6.7	<5	<5	2.8	0.867	1.47	<5	1.48	1.29	1.1	0.56	0.62	5
Chromium, (dissolved) (ug/L)					NA	NA	NA	NA	NA	NA	3.38	<10	<10	1.5	<10	26.4	14.2	1	50
Lead (dissolved) (ug/L)					<5	<5	5.3	<5	<5	<5	12.8	<5	<5	<5	7.73	21.2	11.8	<1	15
Selenium (dissolved) (ug/L)					<20	<20	28	22	<20	12	9.8	<1.4	<1.4	<10	<10	10.9	7.9	<10	50
1,2-Dichloroethane (ug/L)					5.1	4.5	4	5.6	4.4	3.1	2.8	2.8	3	3.74	2.48	3.2	1.9	2.6	0.48
Diesel Range Organics (mg/L)					NA	NA	NA	NA	NA	0.054	NA	NA	NA	NA	NA	NA	NA	<0.070	--
Residual Range Organics (mg/L)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.21	--
Naphthalene (ug/L)					NA	NA	NA	NA	NA	0.03	<1	<1	<1	<5	<5	<4	<4	<0.22	160
1,2,3-Trichloropropane (ug/L)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.27	0.0015
1,1-Dichloroethane (ug/L)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.029	7.7
1,2-Dicholorpropane (ug/L)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.17	1.2
MW-6																			
Sulfate (mg/L)	Well installed November 2012				NA	36	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38	--
Chloride (mg/L)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	--
Ammonia-Nitrogen (mg/L)					<0.10	0.13	<0.10	0.12	<0.25	<0.25	0.0517	0.056	<0.25	0.057	<0.100	<0.10	<0.10	1.1	--
Nitrate-Nitrite (mg/L)					2.7	2.9	2.9	2.5	2.8	2.3	3.4	3.42	3.07	3.7	3.19	3.2	3	2.5	10
Arsenic (dissolved) (ug/L)					<20	<20	<20	<20	23	8.8	20.8	15.8	19.7	17	16.2	29.5	15.4	18	0.058
Barium (dissolved) (ug/L)					110	62	70	64	65	66	115	65.7	69.5	65.5	66.1	502	179	59	2000
Cadmium (dissolved) (ug/L)					<5	<5	8.3	<5	<5	0.73	<5	<5	<5	<2	<2	0.44	0.089	<0.5	5
Chromium,(dissolved) (ug/L)					NA	NA	NA	NA	NA	NA	7.02	3.78	3.93	4.19	3.11	33	98	4.2	50

Table GW-5. Summary of Compounds Detected in Monitoring Wells

Detected Compounds	3/17/2011	6/30/2011	9/15/2011	12/16/2011	12/5/2012	4/4/2013	7/24/2013	10/9/2013	10/28/2014	4/29/2015	10/14/2015	4/19/2016	10/31/2016	5/3/2017	12/28/2017	4/25/2018	9/11/2018	1/31/2020	CLARC
Lead (dissolved) (ug/L)					<5	<5	6.4	<5	<5	2.8	11.7	<5	<5	<5	<5	17.9	53	<1	15
Selenium (dissolved) (ug/L)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5	17	<10	50
Diesel Range Organics (mg/L)					NA	NA	NA	NA	NA	0.039	NA	NA	NA	NA	NA	NA	NA	<0.068	--
Residual Range Organics (mg/L)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.17	--
Naphthalene (ug/L)					NA	NA	NA	NA	NA	0.079	<1	<1	<1	<5	<5	<4	<4	<0.22	160
MW-7																			
Sulfate (mg/L)					NA	35	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	--
Chloride (mg/L) (mg/L)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	--
Ammonia-Nitrogen (mg/L)					<0.10	0.12	0.16	<0.10	<0.25	<0.25	<0.25	0.063	<0.25	0.054	<0.100	<0.10 (<0.10)	<0.10	<0.26	--
Nitrate-Nitrite (mg/L)					2.4	2.5	1.9	2.5	2.2	2.3	2.97	2.81	2.5	3.06	2.62	15.7 (2.4)	2.3	2.1	10
Arsenic (dissolved) (ug/L)					NA	NA	NA	NA	NA	NA	13.7	13.6	10.3	12	14.1	61.8 (9.8)	20.1	9.8	0.058
Barium (dissolved) (ug/L)					120	68	98	74	66	74	74.1	72.6	73.8	71.9	70.7	2190 (69)	434	66	2000
Cadmium (dissolved) (ug/L)					<5	<5	7.7	<5	<5	0.76	<5	<5	<5	<2	<2	1.7 (<0.08)	0.31	<0.5	5
Chromium (dissolved) (ug/L)					NA	NA	NA	NA	NA	2.9	3.16	3.25	3.62	3.48	2.73	131 (3)	25.2	3.3	50
Lead (dissolved) (ug/L)					NA	NA	NA	NA	NA	7.4	7.4	<5	<5	<5	<5	53.1 (0.15)	15.6	<1	15
Selenium (dissolved) (ug/L)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.1 (1.7)	2.2	<10	50
Residual Range Organics (mg/L)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.16	--
Naphthalene (ug/L)					NA	NA	NA	NA	NA	0.57	<1	<1	<1	<5	<5	<4 (<4)	<4	<0.22	160
Phenanthrene					NA	NA	NA	NA	NA	0.012	NA	NA	NA	NA	NA	NA	NA	NA	--
1-Methylnaphthalene (ug/L)					NA	NA	NA	NA	NA	0.018	NA	NA	NA	NA	NA	NA	NA	NA	--
2-Methylnaphthalene (ug/L)					NA	NA	NA	NA	NA	0.028	NA	NA	NA	NA	NA	NA	NA	NA	--

Well installed November 2012

[1] Table shows compounds that were above detection limit at some time during 18 sampling events.
Yellow cells = exceeds federal maximum contaminant level, state maximum contaminant level, and/or Models Toxic Control Act thresholds.
mg/L = milligrams per liter; ug/L = micrograms per liter; NA = Constituent not analyzed during this sampling event.
[2] MW-4 was resampled November 15, 2016.

Table GW-6. Washington Groundwater CLARC Levels (VOCs)

Compound	Method A	Method B Non-Cancer	Method B Cancer	WA MCL
Volatile Organic Compounds (VOCs), EPA Method 8260C (µg/L)				
Benzene	5	32	0.8	5
Bromobenzene	-[1]	64	-	-
Bromoform	-	160	5.5	80
Bromomethane	-	11	-	-
Carbon tetrachloride	-	32	0.63	5
Chlorobenzene	-	160	-	100
Chlorobromo-methane	-	-	-	-
Chlorodibromo-methane	-	-	-	-
Chloroethane	-	-	-	-
Chloroform	-	80	1.4	80
Chloromethane	-	-	-	-
2-Chlorotoluene	-	160	-	-
4-Chlorotoluene	-	-	-	-
4-Isopropyltoluene	-	-	-	-
1,2-Dibromo-3-Chloropropane	-	1.6	0.055	0.2
Dibromomethane	-	-	-	-
1,2-Dichlorobenzene	-	720	-	600
1,3-Dichlorobenzene	-	-	-	-
1,4-Dichlorobenzene	-	560	8.1	75
Dichlorobromomethane	-	-	-	-
Dichlorodifluoromethane	-	1600	-	--
1,1-Dichloroethane	--	1600	7.7	--
1,2-Dichloroethane	5	48	0.48	5
1,1-Dichloroethene	-	400	-	7
cis-1,2-dichloroethene	-	16	-	70
1,2-dichloropropane	-	320	1.2	5
1,1-dichloropropene	-	-	-	-
1,3-dichloropropene	NL	240	0.44	NL
cis-1,3-dichloropropene	-	-	-	-
2,2-dichloropropane	-	-	-	-
Ethylbenzene	700	800	-	700
Hexachlorobutadiene	-	8	0.56	-
Isopropylbenzene (cumene)	-	800	-	-
Methylene Chloride	5	48	5.8	5
m-Xylene & p-Xylene	-	1600	-	-
Methyl tert-butyl ether	20	-	24	-
Naphthalene	160	160	-	-
n-Butylbenzene	-	400	-	-
n-Propylbenzene	-	800	--	--

Table GW-6. Washington Groundwater CLARC Levels (VOCs)

Compound	Method A	Method B Non-Cancer	Method B Cancer	WA MCL
o-Xylene	-	1600	-	-
sec-Butylbenzene	-	800	-	-
Styrene	-	1600	-	100
1,1,1,2-Tetrachloroethane	-	240	1.7	-
1,1,2,2-Tetrachloroethane	-	160	0.22	-
Tert-Butylbenzene	-	800	-	-
Tetrachloroethene	5	48	21	5
Toluene	1000	640	-	1000
trans-1,2-Dichloroethene	-	160	-	100
trans-1,3-Dichloropropene	-	240	0.44	-
1,2,3-Trichlorobenzene	-	-	-	-
1,2,4-Trichlorobenzene	-	80	1.5	70
1,1,1-Trichloroethane	200	16000	--	200
1,1,2-Trichloroethane	--	32	0.77	5
Trichloroethene	5	4	.54	5
Trichlorofluoro-methane	--	2400	--	--
1,2,3-Trichloropropane	--	32	0.00038	--
1,2,4-Trimethylbenzene	--	80	--	--
1,3,5-Trimethylbenzene	--	80	--	--
Vinyl chloride	0.2	24	0.029	2

[1] "-" means not listed in CLARC table (January 2020): https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC

Table GW-7. Washington Groundwater CLARC Levels (EDB, Metals, Herbicides, General Chemistry)

Compound	Method A	Method B Non-Cancer	Method B Cancer	MCL
EDB - Method 8011 (µg/L)				
1,2-Dibromoethane (EDB)	0.01	72	0.022	0.05
RCRA Metals - 6020A (ug/L)				
Arsenic	5	4.8	0.058	10
Barium	-[1]	3200	-	2000
Cadmium	5	8	-	5
Chromium	50	-	-	100
Lead	15	-	-	15
Selenium	-	80	-	50
Silver	-	80	-	-
Dissolved Mercury - 7470A (ug/L)				
Mercury	2	-	-	2
Herbicides - 8151A (µg/L)				
2,4-D	-	160	-	70
Dalapon	-	240	-	200
2,4-DB	-	480	-	NL
Dicamba	-	480	-	-
Dichloroprop	-	-	-	-
Dinoseb	-	16	-	7
MCPA	-	8	-	--
MCPP	NL	NL	NL	NL
2,4,5-T	-	160	-	-
2,4,5-TP (Silvex)	-	130	-	50
Picloram	-	1100	-	500
General Chemistry (mg/L)				
Nitrate-Nitrite	-	26	-	10
Ammonia-Nitrogen	-	-	-	-
Chloride	-	-	-	-
Sulfate	-	-	-	-

[1] "-" means not listed in CLARC table (January 2020): https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC

Table GW-8. Nitrate-N Concentrations Over Time and Trend Analysis

Sampling Date	MW-1	MW-2	MW-3	MW-4	MW-5R	MW-6	MW-7
3/17/2011	8.3	7.1	7	14			
6/30/2011	7.8	5.8	8.5	9.6			
9/15/2011	6.4	6.2	11	8.4			
12/16/2011	5.6	5.1	9.3	7.8			
12/5/2012	7.5	3.4	11	79	35	2.7	2.4
4/4/2013	5.5	2.5	12	6.7	30	2.9	2.5
7/24/2013	5.9	2.6	18	5.1	51	2.9	1.9
10/9/2013	5.1	2.8	7.7	4.8	51	2.5	2.5
10/28/2014	6.2	2.2	16	6.6	33	2.8	2.2
4/29/2015	4.1	2.2	16	6.2	22	2.3	2.3
10/14/2015	5.8	2.6	14.9	9.7	21	3.4	3
4/19/2016	7.6	2.81	12.1	11.1	18.4	3.42	2.81
10/31/2016	1.8	2.98	10.1	48.4	22	3.07	2.5
5/3/2017	11.5	3.4	10.4	74	24.8	3.7	3.06
12/28/2017	5.71	3.28	7.49	28.5	21.1	3.19	2.62
4/25/2018	7.2	3.5	6.7	38	16.8	3.2	2.4
9/11/2018	6.2	3.3	6.6	31.8	15.3	3	2.3
1/31/2020	14	2.8	8.3	37	10	2.5	2.1
Trend Analysis[1]	NT	NT	NT	NT	-	NT	NT

[1] NT = no trend; "-" decreasing trend; using Mann Kendall Test

Table GW-9. 2009 GeoProbe Groundwater Sampling Results

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	CLA RC
Depth (feet)	9.9 - 12.0	8.2 - 11.2	9.0 - 12.0	9.0 - 12.0	9.0 - 12.0	9.0 - 12.0	7.0 - 10.0	8.0 - 12.0	10.0 - 13.0	9.0 - 12.0	9.0 - 12.0	8.5 - 11.5	9.0 - 12.0	
Volatile Organic Compounds (VOCs), EPA Method 8260B (µg/L)														
Acetone	BDL[1]	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
Acrolein	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
Acrylonitrile	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
Benzene	**750**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**8300**	**490**	BDL	BDL	**6900**	0.8
Bromobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.71
Bromodichloro-methane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1.5**	BDL	0.71
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.5
Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11
n-Butylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4	20	1	BDL	400
sec-Butylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	BDL	BDL	800
tert-Butylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	800
Carbon tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.63
Chlorobenzene	13	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	100
Chlorodibromo-methane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.52
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
2-Chloroethyl vinyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
2-Chlorotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	160
4-Chlorotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
1,2-Dibromo-3-Chloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.055
1,2-Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4	BDL	BDL	BDL	n/a
Dibromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.52

Table GW-9. 2009 GeoProbe Groundwater Sampling Results

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	CLARC
Depth (feet)	9.9 - 12.0	8.2 - 11.2	9.0 - 12.0	9.0 - 12.0	9.0 - 12.0	9.0 - 12.0	7.0 - 10.0	8.0 - 12.0	10.0 - 13.0	9.0 - 12.0	9.0 - 12.0	8.5 - 11.5	9.0 - 12.0	
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	600
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.1
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1,600
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.7
1,2-Dichloroethane	90	BDL	20	BDL	BDL	BDL	BDL	BDL	BDL	7.4	BDL	BDL	490	0.48
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
cis-1,2-dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	16
trans-1,2-dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	100
1,2-dichloropropane	37	BDL	14	BDL	BDL	BDL	BDL	BDL	BDL	4.4	BDL	220	BDL	1.2
1,1-dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
1,3-dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
cis-1,3-dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
trans-1,3-dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
2,2-dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
Di-isopropyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
Ethylbenzene	29	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1800	1.3	6.2	1.8	550	700
Hexachloro-1,3-butadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
Isopropylbenzene	18	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.6	22	BDL	BDL	800
p-Isopropyltoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	5.2	BDL	BDL	n/a
2-Butanone (MEK)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5

Table GW-9. 2009 GeoProbe Groundwater Sampling Results

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	CLARC
Depth (feet)	9.9 - 12.0	8.2 - 11.2	9.0 - 12.0	9.0 - 12.0	9.0 - 12.0	9.0 - 12.0	7.0 - 10.0	8.0 - 12.0	10.0 - 13.0	9.0 - 12.0	9.0 - 12.0	8.5 - 11.5	9.0 - 12.0	
2-Methyl-2-pentanone (MIBK)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
Methyl tert-butyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
Naphthalene	200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	52	BDL	13	BDL	160
n-Propylbenzene	51	BDL	BDL	BDL	BDL	BDL	BDL	BDL	300	8.8	57	3	BDL	800
Styrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	100
1,1,1,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.7
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.22
1,1,2-Trichloro-1,2,2-trifluoro	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Toluene	64	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	640
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	n/a
1,2,4-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.77
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.54
Trichlorofluoro-methane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2,400
1,2,3-Trichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0015
1,2,4-Trimethylbenzene	550	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2100	210	650	41	2600	80
1,2,3-Trimethylbenzene	160	BDL	BDL	BDL	BDL	BDL	BDL	BDL	570	34	2.2	9.4	590	n/a

Table GW-9. 2009 GeoProbe Groundwater Sampling Results

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	CLA RC
Depth (feet)	9.9 - 12.0	8.2 - 11.2	9.0 - 12.0	9.0 - 12.0	9.0 - 12.0	9.0 - 12.0	7.0 - 10.0	8.0 - 12.0	10.0 - 13.0	9.0 - 12.0	9.0 - 12.0	8.5 - 11.5	9.0 - 12.0	
1,3,5-Trimethylbenzene	150	BDL	BDL	BDL	BDL	BDL	BDL	BDL	500	30	200	10	620	80
Vinyl chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.029
Xylenes, Total	2100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3700	460	95	12	3100	n/a
RCRA 8 Metals, EPA Method 6010B (µg/L)														
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	0.24	BDL	2
Arsenic	36	40	38	BDL	BDL	BDL	BDL	63	BDL	N/A	BDL	BDL	23	0.058
Barium	1300	1100	790	870	580	1400	610	340	2300	N/A	1900	1600	600	2,000
Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	5
Chromium	52	36	38	42	36	35	37	13	64	N/A	30	23	33	50
Lead	53	100	38	43	54	56	38	27	48	N/A	41	28	54	15
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	50
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	80
Herbicides, EPA Method 8151 (µg/L)														
2,4-D	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.071	N/A	BDL	BDL	0.49	70
Dalapon	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	200
2,4-DB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	130
Dicamba	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	480
Dichloroprop	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	n/a
Dinoseb	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	7
MCPA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	8
MCPP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	16
2,4,5-T	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	160
2,4,5-TP (Silvex)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	BDL	BDL	BDL	50
Inorganics (EPA Methods 353.2 (nitrate-N), 350.1 (ammonia-N), 9056 (chloride and sulfate) (mg/L)														
Nitrate-Nitrite	1100	42	12	6.9	400	9.4	4.2	41	1.1	N/A	37	6.9	29	10
Ammonia-Nitrogen	1300	13	BDL	BDL	46	0.13	0.62	140	3.8	N/A	0.34	0.11	0.9	n/a

Table GW-9. 2009 GeoProbe Groundwater Sampling Results

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	CLARC
Depth (feet)	9.9 - 12.0	8.2 - 11.2	9.0 - 12.0	9.0 - 12.0	9.0 - 12.0	9.0 - 12.0	7.0 - 10.0	8.0 - 12.0	10.0 - 13.0	9.0 - 12.0	9.0 - 12.0	8.5 - 11.5	9.0 - 12.0	
Chloride	380	150	380	190	480	68	90	65	140	N/A	180	160	500	n/a
Sulfate	3600	350	270	700	1600	280	760	480	140	N/A	420	210	400	n/a

BDL = below detection limit, see *Draft Data Summary Report* for details on the 2009 sampling event and laboratory reports with reporting limits. Yellow shaded cell means exceeds CLARC (based on 2009 CLARC) and blue shaded cell, means detection.

Table GW-10. Groundwater Matrix Tables

Sample or Sample Date	Sulfate (EPA 9056 or 300.0)	Chloride (EPA 9056 or 300.0)	Nitrate-N (EPA 353.2)	Ammonia-N (EPA 350.1)	RCRA Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag) EPA 6010B (Mercury EPA 7140A)	Volatile Organic Compounds (VOCs) (full list) EPA 8260B	Gasoline Range Organics - NWTPH-Gx	Diesel Range Organics - NWTPH-Dx	Polynuclear Aromatic Hydrocarbons (PAHs) (low level)	Chlorinated Herbicides (full list) EPA 8151
2009 GeoProbe Investigations										
B1 (2 samples)	X	X	X	X	X	X				X
B2 (2 samples)	X	X	X	X	X	X				X
B3 (2 samples)	X	X	X	X	X	X				X
B4 (2 samples)	X	X	X	X	X	X				X
B5 (2 samples)	X	X	X	X	X	X				X
B6 (2 samples)	X	X	X	X	X	X				X
B7 (2 samples)	X	X	X	X	X	X				X
B8 (2 samples)	X	X	X	X	X	X				X
B9 (2 samples)	X	X	X	X	X	X				X
B10 (2 samples)						X				
B11 (2 samples)	X	X	X	X	X	X				X
B12 (2 samples)	X	X	X	X	X	X				X
B13 (2 samples)	X	X	X	X	X	X				X
MW-1, MW-2, MW-3, MW-4, MW-5										
3/17/2011			X	X	X	X (select)	X	X		X
6/30/2011			X	X	X	X	X	X		X
9/15/2011			X	X	X	X	X	X		X
12/16/2011			X	X	X	X	X	X		X
MW-1, MW-2, MW-3, MW-4, MW-5R, MW-6, MW-7										
12/5/2012			X	X	X	X	X	X	X	X
4/4/2013			X	X	X	X	X	X	X	X

Table GW-10. Groundwater Matrix Tables

Sample or Sample Date	Sulfate (EPA 9056 or 300.0)	Chloride (EPA 9056 or 300.0)	Nitrate-N (EPA 353.2)	Ammonia-N (EPA 350.1)	RCRA Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag) EPA 6010B (Mercury EPA 7140A)	Volatile Organic Compounds (VOCs) (full list) EPA 8260B	Gasoline Range Organics - NWTPH-Gx	Diesel Range Organics - NWTPH-Dx	Polynuclear Aromatic Hydrocarbons (PAHs) (low level)	Chlorinated Herbicides (full list) EPA 8151
7/23/2013			X	X	X	X	X	X	X	X
10/25/2013			X	X	X	X	X	X	X	X
10/30/2014			X	X	X	X	X	X	X	X
4/29/2015			X	X	X	X	X	X	X	X
10/13/2015			X	X	X	X				
4/19/2016			X	X	X	X				
10/31/2016			X	X	X	X				
5/3/2017			X	X	X	X				
12/27/2017			X	X	X	X				
4/25/2018			X	X	X	X				
9/11/2018			X	X	X	X				
1/31/2020	X	X	X	X	X	X	X	X		X
January 2020 GeoProbe Borings										
BH-01-W-8	X	X	X	X	X	X	X	X		X
BH-01-W-16	X	X	X	X	X	X	X	X		X
BH-02-W-8	X	X	X	X	X	X	X	X		X
BH-02-W-16	X	X	X	X	X	X	X	X		X
BH-03-W-8	X	X	X	X	X	X	X	X		X
BH-03-W-16	X	X	X	X	X	X	X	X		X
BH-04-W-8	X	X	X	X	X	X	X	X		X
BH--4-W-16	X	X	X	X	X	X	X	X		X
BH-05-W-8	X	X	X	X	X	X	X	X		X

Table GW-10. Groundwater Matrix Tables

Sample or Sample Date	Sulfate (EPA 9056 or 300.0)	Chloride (EPA 9056 or 300.0)	Nitrate-N (EPA 353.2)	Ammonia-N (EPA 350.1)	RCRA Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag) EPA 6010B (Mercury EPA 7140A)	Volatile Organic Compounds (VOCs) (full list) EPA 8260B	Gasoline Range Organics - NWTPH-Gx	Diesel Range Organics - NWTPH-Dx	Polynuclear Aromatic Hydrocarbons (PAHs) (low level)	Chlorinated Herbicides (full list) EPA 8151
BH-05-W-16	X	X	X	X	X	X	X	X		X
BH-06-W-8	X	X	X	X	X	X	X	X		X
BH-06-W-16	X	X	X	X	X	X	X	X		X
BH-07-W-8	X	X	X	X	X	X	X	X		X
BH-08-W-8	X	X	X	X	X	X	X	X		X
BH-09-W-8	X	X	X	X	X	X	X	X		X
BH-10-W-8	X	X	X	X	X	X	X	X		X
BH-11-W-8	X	X	X	X	X	X	X	X		X
BH-12-W-12	X	X	X	X	X	X	X	X		X
BH-13-W-8	X	X	X	X	X	X	X	X		X
BH-14-W-8	X	X	X	X	X	X	X	X		X
BH-15-W-8	X	X	X	X	X	X	X	X		X

C

Laboratory Reports and Field Notes

Simplot-Sunnyside Phase 1 Sampling Activities

Groundwater Sampling

January 28 through January 31, 2020

- **HDR Field Personnel: Alyssa Veatch; Justin Nesbitt**
- **GeoProbe Drilling: Environmental West, Spokane, WA**
- **Utility Locate: Utilities Plus, Yakima, WA**

1/28/2020

- 8-9am: utilities plus on-site locating the 15 borehole locations. Had to shift BH-08 slightly due to an underground utility pipe (water).
- 9:30am: drillers arrive on site, go over work plan and HASP
- 0933am: start at BH-15:
    - 0-4 ft: silt, some fine sand
    - 4-8 ft: water at 4.5 ft (wet to saturated condition), silty sand.
    - MW-1 was around 10 foot depth (check on groundwater level)
    - Placed screen between 8 to 12 feet bgs.
    - 1051: collected BH-15-W-8
- 1123am: started at BH-14
    - Drilled to 12 feet, with goal of screening from 8 to 12 feet.
    - Wet to saturation conditions started at 4.5-5 ft
    - Grayish lense at 8.5-9ft
    - 1207pm: collected BH-14-W-8
- 12:11pm: started BH-13
    - water starts at 5 ft (saturation)
    - drilled total depth of 12 ft; screen from 8 to 12 ft
    - 1258pm: BH-13-W-8 collected
- 13:05pm: started BH-12
    - Drilled to 12 ft again, but no water was pumping. Going 4 feet deeper
    - Soils appear wet to saturated at 3-4 feet.
    - 14:25pm: BH-12-W-12 collected (screened 12 to 16 feet)
- 14:32pm: at BH-11
    - Soils saturated at ~5 feet
    - Petroleum odor and grey soils starting at 11 feet.
    - 15:45pm: collected BH-11-W-8; water was grey and smelled like petroleum (gasoline?)
- 15:52pm: at BH-10
    - Lighter petroleum scent at ~ 10 feet.
    - 17:00pm: collected BH-10-W-8; water brownish with slight petroleum odor
- Soils for all boreholes consisted of silt with trace to some clay, to fine silty sand
- Petroleum scented soils in BH-11 and BH-10, with the strongest odor detected in BH-11.
- Groundwater from BH-11 and BH-10 had petroleum odor, with BH-11 having the strongest odor

- All borings were sampled (pumped) with GeoProbe screen from 8 to 12 feet, except for BH-12 which was drilled to 16 feet after groundwater would not pump after 12 feet). The last number of the sample ID represents top of screen (e.g. BH-10-W-8) means boring 10, water sample, 8 foot depth (screen 8 to 12 feet).

1/29/2020

- 07:00am: met drillers on site
- 07:10am: at BH-09
    - Wet to saturated soils at approximately 5 feet
    - Grey/smelly soils at approximately 10.5 feet
    - 0757am: BH-09-W-8 collected; waters were brown and had a petroleum smell (8 to 12 foot screen)
- 0804am: at BH-08
    - Wet to saturated soils at approximately 5 feet
    - Soils are grey and smell like petroleum at approximately 11.5 ft
    - 0846am: collected BH-08-W-8, water is brown and smells like petroleum (8 to 12 foot screen)
- 0856am: at BH-07
    - Grey soils at 10 feet, slight petroleum smell
    - Soil wet to saturated at 4-5 feet
    - 09:41am: collected BH-07-W-8; water is brown and has a slight petroleum smell (8 to 12 foot screen)
- 09:51am: collected equipment rinsate blank after decon at BH-07 (EqR)
- 09:57am: at BH-06
    - Wet to saturated at 4-5 feet
    - 1039: collected BH-06-W-8, water is brown, no odor (8 to 12 foot screen)
    - 11:45am: collected BH-06-W-16; water is brown, slight odor, not sure what (16 to 20 foot screen)
- 11:54am: at BH-05
    - Wet to saturated at 4 feet
    - 12:39pm: collected BH-05-W-8; brown, slight petroleum smell (8 to 12 foot screen)
    - 13:47pm: collected BH-05-W-16, clearish to slightly brown; smells of petroleum (16 to 20 foot screen)
- 13:49pm: at BH-04
    - Wet to saturated at 5 feet
    - Slight grey in soil at 10 feet (went from brown to grey), no odor from grey soil
    - 14:34pm: collected BH-04-W-8; brown, slight petroleum odor? (8 to 12 foot screen)
    - 15:32pm: collected BH-04-W-16; light brown, slight petroleum odor? (16 to 20 foot screen)
- 15:37pm: at BH-03
    - Wet to saturated at 5.5 feet
    - Grey soil at ~9-10 feet (no odor)
    - 16:17pm: collected BH-03-W-8; water is brown and smells slightly like petroleum (8 to 12 foot screen)

- 17:20pm: collected BH-03-W-16, light brown, smells like dirt (16 to 20 foot screen)

1/30/2020

- 07:00am: met drillers on-site
- 07:14am: at BH-02
  - Wet to saturated soils at 5 feet
  - Grey soil from 9-11 feet, no petroleum scent
  - 08:01am: collected BH-02-W-8; water is brown to light brown, no odor (8 to 12 foot screen)
  - 09:14am: collected BH-02-W-16; light brown, no odor (16 to 20 foot screen)
- 09:38am: at BH-01
  - Grey layer at 9-10 feet; no odor
  - 10:52am: BH-01-W-8; water is clear to very light brown, no odor (8 to 12 foot screen)
  - 12:07pm: collected BH-01-W-16; water is light brown, no odor (16 to 20 foot screen)

Groundwater Sampling Information

Sample ID: MW-1			**Date: 1/31/2020**		
Project: Simplot Grower Solutions			Project No: 10101457		
Location: Sunnyside, WA					
Depth to Water: 8.95			Measuring Point: TPVC		
Well Depth: 19.34’	Water Ht.: 10.39		Measuring Point: TPVC		
Casing Diameter: 2 inch	Factor: 1 inch = 0.04		2 inch = 0.16	3 inch = 0.66	
One Casing Volume (gallons): 1.6624			Three Casing Volumes (gallons): 4.9872		
Sampling Method: Disposable Bailer					
Sampling Equipment: New disposable bailers and new line					
Pump: NA			Pump Intake: NA		
Decontamination: None required					

Time	pH (SI units)	Temperature (degrees C)	Conductivity (ms)	Clarity	Cumulative Volume Purged (gallons)
1. 0825	----------	----------	----------	----------	0
2. 0829	7.73	14.34	1.040	clear, susp. sed.	0.5
3. 0832	7.60	15.34	1.029	clear, susp. sed.	1
4. 0835	7.58	15.44	1.027	clear, susp. sed.	1.5
5. 0836	7.57	15.60	1.034	clear, susp. sed.	2
6. 0838	7.59	15.10	1.056	l. brown, susp. sed.	2.5
7. 0840	7.59	15.22	1.053	l. brown, susp. sed.	3
8. 0842	7.58	15.52	1.060	l. brown, susp. sed.	3.5
9. 0844	7.58	15.63	1.070	l. brown, susp. sed.	4
10. 0845	7.59	15.37	1.112	l. brown, susp. sed.	4.5
11. 0847	7.59	15.58	1.074	l. brown, susp. sed.	5

Sample Time: 0908	Appearance/Odor: sl. cloudy, brown, no odor
Analytical Laboratory: Test America - Tacoma	
Chemical Analyses: VOCs (8260B)	EDB
NO2, NO3, NH3	NWTPH_Gx, NWTPH_Dx
8RCRA Metal (dissolved) (6020A/7470A)	Herbicides (8151A)
Chloride	Sulfate
Duplicate: N/A	MS/MD: N/A
Comments: Calibrated hydrolab @ 0825	
Signature: A. Veatch	Company: HDR

Groundwater Sampling Information

Sample ID: MW-2			**Date: 1/31/2020**		
Project: Simplot Grower Solutions			Project No: 10101457		
Location: Sunnyside, WA					
Depth to Water: 9.35			Measuring Point: TPVC		
Well Depth: 17.73’	Water Ht.: 8.38		Measuring Point: TPVC		
Casing Diameter: 2 inch	Factor: 1 inch = 0.04		2 inch = 0.16	3 inch = 0.66	
One Casing Volume (gallons): 1.3408			Three Casing Volumes (gallons): 4.0224		
Sampling Method: Disposable Bailer					
Sampling Equipment: New disposable bailers and new line					
Pump: NA			Pump Intake: NA		
Decontamination: None required					

Time	pH (SI units)	Temperature (degrees C)	Conductivity (ms)	Clarity	Cumulative Volume Purged (gallons)
1. 0926	----------	----------	----------	----------	0
2. 0927	6.78	14.09	1.241	sl. cloudy	0.5
3. 0929	7.08	14.03	1.240	sl. cloudy	1
4. 0930	7.29	14.50	1.212	sl. cloudy	1.5
5. 0932	7.47	14.63	1.189	cloudy	2
6. 0933	7.58	14.73	1.153	cloudy	2.5
7. 0934	7.66	14.84	1.126	cloudy	3
8. 0936	7.67	14.53	1.210	cloudy	3.5
9. 0939	7.71	14.68	1.163	cloudy	4
10. 0940	7.74	14.88	1.100	cloudy	4.5

Sample Time: 0958	Appearance/Odor: cloudy, brown, no odor
Analytical Laboratory: Test America Tacoma	
Chemical Analyses: VOCs (8260B)	EDB
NO2, NO3, NH3	NWTPH_Gx, NWTPH_Dx
8RCRA Metal (dissolved) (6020A/7470A)	Herbicides (8151A)
Chloride	Sulfate
Duplicate: N/A	MS/MD: N/A
Comments: N/A	
Signature: A. Veatch	Company: HDR

Groundwater Sampling Information

Sample ID: MW-3		**Date: 1/31/2020**	
Project: Simplot Grower Solutions		Project No: 10101457	
Location: Sunnyside, WA			
Depth to Water: 10.97		Measuring Point: TPVC	
Well Depth: 23.07’	Water Ht.: 12.10	Measuring Point: TPVC	
Casing Diameter: 2 inch	Factor: 1 inch = 0.04	2 inch = 0.16	3 inch = 0.66
One Casing Volume (gallons): 1.936		Three Casing Volumes (gallons): 5.808	
Sampling Method: Disposable Bailer			
Sampling Equipment: New disposable bailers and new line			
Pump: NA		Pump Intake: NA	
Decontamination: None required			

Time	pH (SI units)	Temperature (degrees C)	Conductivity (ms)	Clarity	Cumulative Volume Purged (gallons)
	----------	----------	----------	----------	0
1. 1025	7.42	15.16	2.37	brown	1
2. 1027	7.53	15.64	2.29	almost clear	2
3. 1030	7.53	15.64	2.28	clear	2.5
4. 1032	7.53	15.79	2.22	clear	3
5. 1034	7.52	15.76	2.22	clear	3.5
6. 1037	7.53	15.88	2.19	clear	4
7. 1038	7.51	15.85	2.19	clear	4.5
8. 1040	7.52	15.79	2.21	clear	5
9. 1042	7.51	15.80	2.22	almost clear	5.5
10. 1044	7.52	15.70	2.22	brown	6

Sample Time: 1103	Appearance/Odor: brownish, no odor
Analytical Laboratory: Test America Tacoma	
Chemical Analyses: VOCs (8260B)	EDB
NO2, NO3, NH3	NWTPH_Gx, NWTPH_Dx
8RCRA Metal (dissolved) (6020A/7470A)	Herbicides (8151A)
Chloride	Sulfate
Duplicate: N/A	MS/MD: N/A
Comments: N/A	
Signature: A. Veatch	Company: HDR

Groundwater Sampling Information

Sample ID: MW-4			**Date: 1/31/2020**		
Project: Simplot Grower Solutions			Project No: 10101457		
Location: Sunnyside, WA					
Depth to Water: 10.87			Measuring Point: TPVC		
Well Depth: 22.71’	Water Ht.: 11.91		Measuring Point: TPVC		
Casing Diameter: 2 inch	Factor: 1 inch = 0.04		2 inch = 0.16	3 inch = 0.66	
One Casing Volume (gallons): 1.9056			Three Casing Volumes (gallons): 5.7168		
Sampling Method: Disposable Bailer					
Sampling Equipment: New disposable bailers and new line					
Pump: NA			Pump Intake: NA		
Decontamination: None required					

Time	pH (SI units)	Temperature (degrees C)	Conductivity (ms)	Clarity	Cumulative Volume Purged (gallons)
1. 1133	----------	----------	----------	----------	0
2. 1135	7.13	14.93	1.60	almost clear	1
3. 1137	7.42	15.18	1.57	clear	2
4. 1139	7.54	15.20	1.53	clear	2.5
5. 1141	7.58	15.21	1.46	clear	3
6. 1143	7.64	15.34	1.439	clear	3.5
7. 1145	7.66	15.23	1.436	clear	4
8. 1147	7.67	15.36	1.244	clear	4.5
9. 1149	7.67	15.25	1.452	clear	5
10. 1151	7.70	15.38	1.400	clear	5.5
11. 1154	7.69	15.38	1.407	clear	6

Sample Time: 1221	Appearance/Odor: clear/no odor
Analytical Laboratory: Test America Tacoma	
Chemical Analyses: VOCs (8260B)	EDB
NO2, NO3, NH3	NWTPH_Gx, NWTPH_Dx
8RCRA Metal (dissolved) (6020A/7470A)	Herbicides (8151A)
Chloride	Sulfate
Duplicate: MW-8 @ 0805	MS/MD: N/A
Comments: N/A	
Signature: A. Veatch	Company: HDR

Groundwater Sampling Information

Sample ID: MW-5R			**Date: 1/31/2020**		
Project: Simplot Grower Solutions			Project No: 10101457		
Location: Sunnyside, WA					
Depth to Water: 10.92			Measuring Point: TPVC		
Well Depth: 21.60’	Water Ht.: 10.68		Measuring Point: TPVC		
Casing Diameter: 2 inch	Factor: 1 inch = 0.04		2 inch = 0.16	3 inch = 0.66	
One Casing Volume (gallons): 1.7088			Three Casing Volumes (gallons): 5.12		
Sampling Method: Disposable Bailer					
Sampling Equipment: New disposable bailers and new line					
Pump: NA			Pump Intake: NA		
Decontamination: None required					

Time	pH (SI units)	Temperature (degrees C)	Conductivity (ms)	Clarity	Cumulative Volume Purged (gallons)
1. 1241	----------	----------	----------	----------	0
2. 1243	7.20	15.00	1.64	almost clear	1
3. 1245	7.39	15.06	1.61	brown	2
4. 1247	7.49	14.97	1.60	brown	2.5
5. 1249	7.53	15.00	1.60	brown	3
6. 1250	7.54	15.02	1.58	brown	3.5
7. 1252	7.55	15.03	1.59	brown	4
8. 1254	7.55	15.03	1.55	brown	4.5
9. 1257	7.56	15.06	1.55	brown	5
10. 1258	7.56	15.05	1.54	brown	5.5

Sample Time: 1314	Appearance/Odor: clear to light brown, some sediment, no odor
Analytical Laboratory: Test America Tacoma	
Chemical Analyses: VOCs (8260B)	EDB
NO2, NO3, NH3	NWTPH_Gx, NWTPH_Dx
8RCRA Metal (dissolved) (6020A/7470A)	Herbicides (8151A)
Chloride	Sulfate
Duplicate: N/A	MS/MD: N/A
Comments:	
Signature: A. Veatch	Company: HDR

Groundwater Sampling Information

Sample ID: MW-6			**Date: 1/31/2020**		
Project: Simplot Grower Solutions			Project No: 10101457		
Location: Sunnyside, WA					
Depth to Water: 12.77			Measuring Point: TPVC		
Well Depth: 21.60’	Water Ht.: 8.83		Measuring Point: TPVC		
Casing Diameter: 2 inch	Factor: 1 inch = 0.04		2 inch = 0.16	3 inch = 0.66	
One Casing Volume (gallons): 1.4123			Three Casing Volumes (gallons): 4.2384		
Sampling Method: Disposable Bailer					
Sampling Equipment: New disposable bailers and new line					
Pump: NA			Pump Intake: NA		
Decontamination: None required					

Time	**pH (SI units)**	**Temperature (degrees C)**	**Conductivity (ms)**	**Clarity**	**Cumulative Volume Purged (gallons)**
1442	----------	----------	----------	----------	0
1443	6.91	16.54	0.445	clear	0.5
1446	7.37	16.58	0.442	clear	1
1448	7.68	16.43	0.348	clear	1.5
1451	7.77	16.38	0.438	clear	2
1454	7.81	16.55	0.440	almost clear	2.5
1455	7.82	16.56	0.441	almost clear	3
1458	7.83	16.52	0.444	brown	3.5
1500	7.84	16.51	0.440	brown	4
1502	7.85	16.50	0.443	brown	4.5

Sample Time: 1521	Appearance/Odor: light brown, no odor
Analytical Laboratory: Test America Tacoma	
Chemical Analyses: VOCs (8260B)	EDB
NO2, NO3, NH3	NWTPH_Gx, NWTPH_Dx
8RCRA Metal (dissolved) (6020A/7470A)	Herbicides (8151A)
Chloride	Sulfate
Duplicate: N/A	MS/MD: N/A
Comments:	
Signature: A. Veatch	Company: HDR

Groundwater Sampling Information

Sample ID: MW-7			**Date: 1/31/2020**		
Project: Simplot Grower Solutions			Project No: 10101457		
Location: Sunnyside, WA					
Depth to Water: 12.60			Measuring Point: TPVC		
Well Depth: 24.45’	Water Ht.: 11.85		Measuring Point: TPVC		
Casing Diameter: 2 inch	Factor: 1 inch = 0.04		2 inch = 0.16	3 inch = 0.66	
One Casing Volume (gallons): 1.896			Three Casing Volumes (gallons): 5.688		
Sampling Method: Disposable Bailer					
Sampling Equipment: New disposable bailers and new line					
Pump: NA			Pump Intake: NA		
Decontamination: None required					

Time	pH (SI units)	Temperature (degrees C)	Conductivity (ms)	Clarity	Cumulative Volume Purged (gallons)
1. 1344	----------	----------	----------	----------	0
2. 1345	7.06	16.83	0.347	brown	1
3. 1348	7.40	17.00	0.400	brown	2
4. 1351	7.57	16.94	0.397	brown	2.5
5. 1353	7.64	16.93	0.398	brown	3
6. 1355	7.70	16.96	0.398	brown	3.5
7. 1357	7.71	16.96	0.399	brown	4
8. 1359	7.74	16.91	0.398	brown	4.5
9. 1402	7.73	16.99	0.398	brown	5
10. 1404	7.71	16.94	0.396	brown	5.5
11. 1405	7.67	17.00	0.399	brown	6

Sample Time: 1418	Appearance/Odor: brown, no odor
Analytical Laboratory: Test America Tacoma	
Chemical Analyses: VOCs (8260B)	EDB
NO2, NO3, NH3	NWTPH_Gx, NWTPH_Dx
8RCRA Metal (dissolved) (6020A/7470A)	Herbicides (8151A)
Chloride	Sulfate
Duplicate: N/A	MS/MD: N/A
Comments: N/A	
Signature: A. Veatch	Company: HDR

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 580-92451-1
Client Project/Site: Simplot - Sunnyside, WA
Revision: 1

For:
HDR Inc
412 E. Parkcenter Blvd.
Suite 100
Boise, Idaho 83706-6659

Attn: Michael Murray

M. Elaine Walker

Authorized for release by:
3/16/2020 3:45:02 PM

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Table of Contents

Job ID: 580-92451-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-92451-1

Revision 1: March 16, 2020
This revision was to correct the o-Xylene results for samples BH-09-W-8 (580-92451-15) and BH-10-W-8 (580-92451-16), which were initially reported at the wrong dilution.

Receipt
Twenty-three samples were received on 1/31/2020 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 13 coolers at receipt time were -1.2º C, 0.0º C, 0.0º C, 0.1º C, 0.2º C, 0.3º C, 0.6º C, 0.8º C, 1.2º C, 2.3º C, 2.6º C, 2.6º C and 3.0º C.

Receipt Exceptions
The reference method requires samples to be preserved to a pH of 2 or less. The following samples were received with insufficient preservation. : BH-01-W-16 (580-92451-2), BH-02-W-8 (580-92451-3), BH-03-W-8 (580-92451-5), BH-04-W-8 (580-92451-7), BH-05-W-8 (580-92451-9), BH-06-W-8 (580-92451-11), BH-06-W-16 (580-92451-12), BH-07-W-8 (580-92451-13), BH-08-W-8 (580-92451-14), BH-09-W-8 (580-92451-15), BH-10-W-8 (580-92451-16), BH-11-W-8 (580-92451-17), BH-13-W-8 (580-92451-19), BH-15-W-8 (580-92451-21) and BH-16-W-8 (580-92451-22). The hydrochloric (HCl) ambers of samples -2, -3, -5, -9, -11 -12, -13, -14, -15, -16, -17, -19, -21, -22 were preserved to the appropriate pH in the laboratory with HCl from reagent # 2486587. The Sulfuric acid (H2SO4) polys of samples -5, -7, -9, -15, & -19 were preserved to the appropriate pH in the laboratory with H2SO4 from reagent # 2547974.

Five hydrochloric acid VOA vials (instead of the expected six) were received at the laboratory for the following samples. Five vials should be adequate for the requested analyses. BH-12-W-12 (580-92451-18) and BH-13-W-8 (580-92451-19).

GC/MS VOA
Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: BH-02-W-8 (580-92451-3), BH-04-W-8 (580-92451-7), BH-05-W-8 (580-92451-9), BH-06-W-8 (580-92451-11), -07-W-8 (580-92451-13), BH-08-W-8 (580-92451-14), BH-09-W-8 (580-92451-15), BH-10-W-8 (580-92451-16), BHBH-11-W-8 (580-92451-17), BH-13-W-8 (580-92451-19), BH-14-W-8 (580-92451-20), and BH-16-W-8 (580-92451-22).

Method 8260C: The method blank for analytical batch 580-321804 contained 1,2,4-Trichlorobenzene, o-xylene, 4-Isopropylltoluene, n-Butylbenzene, 1,2,4-Trimethylbenzene, Naphthalene, tert-Butylbenzene, and Isopropylbenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260C: The method blank for analytical batch 580-321898 contained 1,2,4-Trichlorobenzene, cis-1,3-Dichloropropene, o-xylene, 4-Isopropylltoluene, n-Butylbenzene, 1,2,4-Trimethylbenzene, Naphthalene, tert-Butylbenzene, and Isopropylbenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260C: The method blank for analytical batch 580-322015 contained 1,2,4-Trichlorobenzene, o-xylene, n-Butylbenzene, 1,2,4-Trimethylbenzene, Naphthalene, tert-Butylbenzene, and Isopropylbenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260C: Surrogate Toluene-d8 (Surr) and 1,2-Dichloroethane-d4 (Surr) recovery for the following samples were outside control limits: BH-09-W-8 (580-92451-15), BH-11-W-8 (580-92451-17) and BH-16-W-8 (580-92451-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: Surrogate 1,2-Dichloroethane-d4 (Surr) recovery for the following sample was outside control limits: BH-10-W-8 (580-92451-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: Sample BH-16-W-8 (580-92451-22) was reanalyzed at a dilution for Naphthalene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, Ethylbenzene, m-Xylene & p-Xylene, N-Propylbenzene, Benzene and n-Butylbenzene . The sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was reanalyzed

Job ID: 580-92451-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specifiedfor preserved samples. Both sets of data have been reported. The initial results for these compounds are outside the calibration range and are estimated.

Method 8260C: Sample BH-11-W-8 (580-92451-17) was re-analyzed at a dilution for Naphthalene,1,2-Dichloroethane, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, Ethylbenzene, m-Xylene & p-Xylene, N-Propylbenzene, Benzene and n-Butylbenzene . The sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was reanalyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples. Both sets of data have been reported. The initial results for these compounds are outside the calibration range and are estimated.

Method 8260C: Sample BH-08-W-8 (580-92451-14) was re-analyzed at a dilution for 1,2,4-Trimethylbenzene. The sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples. Both sets of data have been reported. The initial results for these compounds are outside the calibration range and are estimated.

Method 8260C: Sample BH-10-W-8 (580-92451-16) was re-analyzed at a dilution for 1,2,4-Trimethylbenzene, 1,2-Dichloroethane, 1,3,5-Trimethylbenzene, 4-Isopropyltoluene, Benzene, m-Xylene & p-Xylene, Naphthalene, n-Butylbenzene and N-Propylbenzene. The sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was reanalyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples. Both sets of data have been reported. The initial results for these compounds are outside the calibration range and are estimated.

Method 8260C: Sample BH-13-W-8 (580-92451-19) was re-analyzed for carry over for tert-Butylbenzene, Tetrachloroethene, m-Xylene & p-Xylene, Naphthalene, n-Butylbenzene, 1,2,4-Trimethylbenzene, 1,2,4-Trichlorobenzene, 1,2-Dichloroethane, Benzene and o-Xylene The sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples. Both sets of data have been reported.

Method 8260C: Sample BH-14-W-8 (580-92451-20) was re-analyzed for carry over for 1,2,4-Trimethylbenzene, 1,2-Dichloroethane, Benzene, cis-1,3-Dichloropropene, m-Xylene & p-Xylene, Naphthalene, n-Butylbenzene and o-Xylene. The sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples. Both sets of data have been reported.
BH-14-W-8 (580-92451-20)

Method 8260C: Sample BH-14-W-8 (580-92451-20) was re-analyzed for carry over for 1,2,4-Trimethylbenzene, 1,2-Dichloroethane, Benzene, cis-1,3-Dichloropropene, m-Xylene & p-Xylene, Naphthalene, n-Butylbenzene and o-Xylene. The samples was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample(s) was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples. Both sets of data have been reported.

Method 8260C: The following sample was analyzed at reduced volume due to high concentrations of target analytes: BH-08-W-8 (580-92451-14). The calculation was done using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: BH-04-W-8 (580-92451-7), BH-09-W-8 (580-92451-15), BH-10-W-8 (580-92451-16), BH-11-W-8 (580-92451-17) and BH-16-W-8 (580-92451-22). Elevated reporting limits (RLs) are provided.

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

GC VOA

Method NWTPH-Gx: Surrogate recovery for the following samples were outside control limits: BH-09-W-8 (580-92451-15) and BH-16-W-8 (580-92451-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Job ID: 580-92451-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

Method NWTPH-Gx: The following samples was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: BH-02-W-8 (580-92451-3), BH-03-W-8 (580-92451-5), BH-04-W-8 (580-92451-7), BH-05-W-8 (580-92451-9), BH-06-W-8 (580-92451-11), BH-07-W-8 (580-92451-13), BH-08-W-8 (580-92451-14), BH-09-W-8 (580-92451-15), BH-10-W-8 (580-92451-16), BH-11-W-8 (580-92451-17), BH-13-W-8 (580-92451-19), BH-14-W-8 (580-92451-20) and BH-16-W-8 (580-92451-22).

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

GC Semi VOA

Method 8151A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 280-484770 and analytical batch 280-484980 recovered outside control limits for the following analytes: Dinoseb.

Method 8151A: The following samples were diluted due to the nature of the sample matrix with large non-target peaks: BH-10-W-8 (580-92451-16), BH-11-W-8 (580-92451-17) and BH-16-W-8 (580-92451-22) in 8151 preparation batch 280-484770 and analytical batch 280-485402. Elevated reporting limits (RLs) are provided.

Method 8151A: The %RPD between the primary and confirmation column exceeded 40% for Dalapon and/or Dicamba for the following samples: BH-01-W-8 (580-92451-1) and BH-02-W-16 (580-92451-4) in 8151 preparation batch 280-484881 and analytical batch 280-486137 . The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8151A: The %RPD between the primary and confirmation column exceeded 40% for MCPA and MCPP for the following sample: BH-09-W-8 (580-92451-15) in 8151 preparation batch 280-484881 and analytical batch 280-486523 . The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8151A: The %RPD between the primary and confirmation column exceeded 40% for MCPA for the following sample: BH-10-W-8 (580-92451-16) in 8151 preparation batch 280-484770 and analytical batch 280-485617. The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8151A: The %RPD between the primary and confirmation column exceeded 40% for Picloram for the following samples: BH-11-W-8 (580-92451-17) and BH-16-W-8 (580-92451-22) in 8151 preparation batch 280-484770 and analytical batch 280-485402 . The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8151A: The following sample was diluted due to the nature of the sample matrix and/or large target analyte peaks: BH-09-W-8 (580-92451-15), BH-10-W-8 (580-92451-16) in 8151 preparation batch 280-484770 and analytical batch 280-485617. Elevated reporting limits (RLs) are provided.

Method 8151A: A portion of the following samples was used for analysis, rather than testing the entire sample amount in the original container, due to large amounts of sediment at the bottom.of the bottle: BH-01-W-8 (580-92451-1), BH-01-W-16 (580-92451-2), BH-02-W-8 (580-92451-3), BH-02-W-16 (580-92451-4), BH-03-W-8 (580-92451-5), BH-03-W-16 (580-92451-6), BH-04-W-8 (580-92451-7), BH-04-W-16 (580-92451-8), BH-05-W-8 (580-92451-9), BH-06-W-8 (580-92451-11), BH-06-W-16 (580-92451-12), BH-07-W-8 (580-92451-13), BH-08-W-8 (580-92451-14) and BH-09-W-8 (580-92451-15), BH-10-W-8 (580-92451-16), BH-11-W-8 (580-92451-17), BH-12-W-12 (580-92451-18), BH-13-W-8 (580-92451-19), BH-14-W-8 (580-92451-20), BH-15-W-8 (580-92451-21) and BH-16-W-8 (580-92451-22). These samples were decanted due to large sediment content:. As such, the required solvent rinse of the original container could not be performed.

Method NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern were earlier than the typical diesel fuel pattern used by the laboratory for quantitative purposes: BH-08-W-8 (580-92451-14) and BH-09-W-8 (580-92451-15).

Method NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was earlier than the typical diesel fuel pattern used by the laboratory for quantitative purposes: BH-10-W-8 (580-92451-16), BH-11-W-8 (580-92451-17) and BH-16-W-8 (580-92451-22).

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

Job ID: 580-92451-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

Metals

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

General Chemistry

Method 350.1: The matrix spike (MS) recovery and precision for preparation batch 580-321912 and analytical batch 580-321913 were outside control limits for Ammonia. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-321971 were outside control limits for Sulfate. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The method blank for analytical batch 580-321971 contained Chloride above the method detection limit (MDL). This target analyte concentration was less than the 1/2 the reporting limit; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The method blank for analytical batch 580-321972 contained Chloride above the method detection limit (MDL). This target analyte concentration was less than 1/2 the RL; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-322886 were outside control limits for Nitrate Nitrate as N. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
H4	Container indicated preservation, however measured pH was >2 at time of analysis. Analysis date was more than 7 days from sampling date, as required for samples not preserved to pH<2.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-01-W-8
Date Collected: 01/30/20 10:52
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 18:23	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 18:23	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 18:23	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 18:23	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 18:23	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 18:23	1
1,1-Dichloropropene	**0.053**	**J**	0.20	0.036	ug/L			02/03/20 18:23	1
1,2,3-Trichlorobenzene	**0.17**	**J**	0.50	0.15	ug/L			02/03/20 18:23	1
1,2,3-Trichloropropane	**0.44**		0.20	0.050	ug/L			02/03/20 18:23	1
1,2,4-Trichlorobenzene	**0.24**	**J B**	0.30	0.072	ug/L			02/03/20 18:23	1
1,2,4-Trimethylbenzene	**0.12**	**J B**	0.30	0.072	ug/L			02/03/20 18:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 18:23	1
1,2-Dichlorobenzene	**0.33**		0.30	0.050	ug/L			02/03/20 18:23	1
1,2-Dichloroethane	**3.0**		0.20	0.043	ug/L			02/03/20 18:23	1
1,2-Dichloropropane	**1.4**		0.20	0.060	ug/L			02/03/20 18:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/03/20 18:23	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 18:23	1
1,3-Dichloropropane	**0.12**	**J**	0.20	0.056	ug/L			02/03/20 18:23	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 18:23	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 18:23	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 18:23	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 18:23	1
4-Isopropyltoluene	**0.16**	**J B**	0.30	0.050	ug/L			02/03/20 18:23	1
Benzene	**6.7**		0.20	0.030	ug/L			02/03/20 18:23	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 18:23	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 18:23	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 18:23	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 18:23	1
Chlorobenzene	**0.17**	**J**	0.20	0.025	ug/L			02/03/20 18:23	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 18:23	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 18:23	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 18:23	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 18:23	1
Chloromethane	**0.22**	**J**	0.50	0.15	ug/L			02/03/20 18:23	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 18:23	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 18:23	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 18:23	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 18:23	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 18:23	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/03/20 18:23	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 18:23	1
Isopropylbenzene	**0.46**	**J B**	1.0	0.19	ug/L			02/03/20 18:23	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 18:23	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 18:23	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/03/20 18:23	1
Naphthalene	**0.37**	**J B**	1.0	0.22	ug/L			02/03/20 18:23	1
n-Butylbenzene	**0.26**	**J B**	0.50	0.080	ug/L			02/03/20 18:23	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/03/20 18:23	1
o-Xylene	**0.19**	**J B**	0.50	0.15	ug/L			02/03/20 18:23	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-01-W-8
Date Collected: 01/30/20 10:52
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**0.29**	**J**	1.0	0.17	ug/L			02/03/20 18:23	1
Styrene	ND		0.50	0.19	ug/L			02/03/20 18:23	1
tert-Butylbenzene	**0.13**	**J B**	0.50	0.10	ug/L			02/03/20 18:23	1
Tetrachloroethene	**0.74**		0.50	0.084	ug/L			02/03/20 18:23	1
Toluene	ND		0.20	0.050	ug/L			02/03/20 18:23	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 18:23	1
trans-1,3-Dichloropropene	**0.10**	**J**	0.20	0.092	ug/L			02/03/20 18:23	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 18:23	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 18:23	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*02/03/20 18:23*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*02/03/20 18:23*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/03/20 18:23*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/03/20 18:23*	*1*
Trifluorotoluene (Surr)	*91*		*80 - 120*		*02/03/20 18:23*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*50 - 150*		*02/03/20 17:37*	*1*
Trifluorotoluene (Surr)	*93*		*50 - 150*		*02/03/20 17:37*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.022	0.0056	ug/L		02/07/20 11:23	02/25/20 15:48	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.47	ug/L		02/04/20 15:10	02/18/20 12:34	1
2,4-D	**4.2**		4.1	0.54	ug/L		02/04/20 15:10	02/18/20 12:34	1
2,4-DB	ND		4.1	0.77	ug/L		02/04/20 15:10	02/18/20 12:34	1
Dalapon	**0.95**	**J p**	2.1	0.94	ug/L		02/04/20 15:10	02/18/20 12:34	1
Dicamba	**0.76**	**J**	2.1	0.45	ug/L		02/04/20 15:10	02/18/20 12:34	1
Dichlorprop	ND		4.1	0.67	ug/L		02/04/20 15:10	02/18/20 12:34	1
Dinoseb	ND		1.0	0.46	ug/L		02/04/20 15:10	02/18/20 12:34	1
MCPA	ND		410	49	ug/L		02/04/20 15:10	02/18/20 12:34	1
MCPP	**410**		410	34	ug/L		02/04/20 15:10	02/18/20 12:34	1
Picloram	ND		0.51	0.25	ug/L		02/04/20 15:10	02/18/20 12:34	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/04/20 15:10	02/18/20 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*132*		*39 - 135*	*02/04/20 15:10*	*02/18/20 12:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.59**		0.12	0.070	mg/L		02/03/20 16:06	02/04/20 19:58	1
Motor Oil (>C24-C36)	**0.37**	**J**	0.38	0.10	mg/L		02/03/20 16:06	02/04/20 19:58	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-01-W-8

Date Collected: 01/30/20 10:52
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*77*		*50 - 150*	*02/03/20 16:06*	*02/04/20 19:58*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.21**		0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:35	5
Barium	**0.12**		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:35	5
Cadmium	**0.00054**	**J**	0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:35	5
Chromium	**0.0013**	**J**	0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:35	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:35	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:35	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:35	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**	**B**	90	14	mg/L			02/03/20 14:18	100
Sulfate	**900**		120	26	mg/L			02/03/20 14:18	100
Ammonia as N	**300**		50	26	mg/L		02/03/20 18:41	02/03/20 18:43	100
Nitrate Nitrite as N	**480**		75	30	mg/L			02/15/20 18:09	500

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-01-W-16
Date Collected: 01/30/20 12:07
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 19:17	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 19:17	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 19:17	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 19:17	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 19:17	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 19:17	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 19:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 19:17	1
1,2,3-Trichloropropane	**0.086**	**J**	0.20	0.050	ug/L			02/03/20 19:17	1
1,2,4-Trichlorobenzene	**0.16**	**J B**	0.30	0.072	ug/L			02/03/20 19:17	1
1,2,4-Trimethylbenzene	**0.12**	**J B**	0.30	0.072	ug/L			02/03/20 19:17	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 19:17	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 19:17	1
1,2-Dichloroethane	**2.6**		0.20	0.043	ug/L			02/03/20 19:17	1
1,2-Dichloropropane	**0.33**		0.20	0.060	ug/L			02/03/20 19:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/03/20 19:17	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 19:17	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/03/20 19:17	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 19:17	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 19:17	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 19:17	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 19:17	1
4-Isopropyltoluene	**0.14**	**J B**	0.30	0.050	ug/L			02/03/20 19:17	1
Benzene	**0.18**	**J**	0.20	0.030	ug/L			02/03/20 19:17	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 19:17	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 19:17	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 19:17	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 19:17	1
Chlorobenzene	**0.025**	**J**	0.20	0.025	ug/L			02/03/20 19:17	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 19:17	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 19:17	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 19:17	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 19:17	1
Chloromethane	**0.38**	**J**	0.50	0.15	ug/L			02/03/20 19:17	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 19:17	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 19:17	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 19:17	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 19:17	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 19:17	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/03/20 19:17	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 19:17	1
Isopropylbenzene	**0.29**	**J B**	1.0	0.19	ug/L			02/03/20 19:17	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 19:17	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 19:17	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/03/20 19:17	1
Naphthalene	**0.36**	**J B**	1.0	0.22	ug/L			02/03/20 19:17	1
n-Butylbenzene	**0.16**	**J B**	0.50	0.080	ug/L			02/03/20 19:17	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/03/20 19:17	1
o-Xylene	**0.16**	**J B**	0.50	0.15	ug/L			02/03/20 19:17	1

Client Sample ID: BH-01-W-16
Date Collected: 01/30/20 12:07
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/03/20 19:17	1
Styrene	ND		0.50	0.19	ug/L			02/03/20 19:17	1
tert-Butylbenzene	**0.13**	**J B**	0.50	0.10	ug/L			02/03/20 19:17	1
Tetrachloroethene	**0.12**	**J**	0.50	0.084	ug/L			02/03/20 19:17	1
Toluene	ND		0.20	0.050	ug/L			02/03/20 19:17	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 19:17	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 19:17	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 19:17	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 19:17	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*02/03/20 19:17*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*02/03/20 19:17*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*02/03/20 19:17*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/03/20 19:17*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 120*		*02/03/20 19:17*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*50 - 150*		*02/03/20 18:01*	*1*
Trifluorotoluene (Surr)	*101*		*50 - 150*		*02/03/20 18:01*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0056	ug/L		02/10/20 12:22	02/26/20 11:23	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/04/20 15:10	02/18/20 13:02	1
2,4-D	ND		4.0	0.53	ug/L		02/04/20 15:10	02/18/20 13:02	1
2,4-DB	ND		4.0	0.75	ug/L		02/04/20 15:10	02/18/20 13:02	1
Dalapon	ND		2.0	0.91	ug/L		02/04/20 15:10	02/18/20 13:02	1
Dicamba	ND		2.0	0.44	ug/L		02/04/20 15:10	02/18/20 13:02	1
Dichlorprop	ND		4.0	0.65	ug/L		02/04/20 15:10	02/18/20 13:02	1
Dinoseb	ND		1.0	0.45	ug/L		02/04/20 15:10	02/18/20 13:02	1
MCPA	ND		400	48	ug/L		02/04/20 15:10	02/18/20 13:02	1
MCPP	**160**	**J**	400	33	ug/L		02/04/20 15:10	02/18/20 13:02	1
Picloram	ND		0.50	0.24	ug/L		02/04/20 15:10	02/18/20 13:02	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/04/20 15:10	02/18/20 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*73*		*39 - 135*	*02/04/20 15:10*	*02/18/20 13:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.093**	**J**	0.12	0.070	mg/L		02/03/20 16:06	02/04/20 20:20	1
Motor Oil (>C24-C36)	**0.22**	**J**	0.38	0.10	mg/L		02/03/20 16:06	02/04/20 20:20	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-01-W-16

Date Collected: 01/30/20 12:07
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150	02/03/20 16:06	02/04/20 20:20	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**		0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:38	5
Barium	**0.075**		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:38	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:38	5
Chromium	**0.0011**	**J**	0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:38	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:38	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:38	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:38	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**	**B**	9.0	1.4	mg/L			02/03/20 14:41	10
Sulfate	**470**		12	2.6	mg/L			02/03/20 14:41	10
Ammonia as N	**77**		5.0	2.6	mg/L		02/03/20 18:41	02/03/20 18:43	10
Nitrate Nitrite as N	**0.57**		0.15	0.060	mg/L			02/11/20 14:39	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-02-W-8
Date Collected: 01/30/20 08:01
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 21:02	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 21:02	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 21:02	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 21:02	1
1,1-Dichloroethane	**0.027**	**J**	0.20	0.025	ug/L			02/03/20 21:02	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 21:02	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 21:02	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 21:02	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/03/20 21:02	1
1,2,4-Trichlorobenzene	**0.16**	**J B**	0.30	0.072	ug/L			02/03/20 21:02	1
1,2,4-Trimethylbenzene	**0.094**	**J B**	0.30	0.072	ug/L			02/03/20 21:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 21:02	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 21:02	1
1,2-Dichloroethane	**21**		0.20	0.043	ug/L			02/03/20 21:02	1
1,2-Dichloropropane	**0.88**		0.20	0.060	ug/L			02/03/20 21:02	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/03/20 21:02	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 21:02	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/03/20 21:02	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 21:02	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 21:02	1
2-Chlorotoluene	**0.22**	**J**	0.50	0.12	ug/L			02/03/20 21:02	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 21:02	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			02/03/20 21:02	1
Benzene	**3.3**		0.20	0.030	ug/L			02/03/20 21:02	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 21:02	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 21:02	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 21:02	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 21:02	1
Chlorobenzene	**0.50**		0.20	0.025	ug/L			02/03/20 21:02	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 21:02	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 21:02	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 21:02	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 21:02	1
Chloromethane	**0.30**	**J**	0.50	0.15	ug/L			02/03/20 21:02	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 21:02	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 21:02	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 21:02	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 21:02	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 21:02	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/03/20 21:02	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 21:02	1
Isopropylbenzene	**0.35**	**J B**	1.0	0.19	ug/L			02/03/20 21:02	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 21:02	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 21:02	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/03/20 21:02	1
Naphthalene	**0.36**	**J B**	1.0	0.22	ug/L			02/03/20 21:02	1
n-Butylbenzene	**0.17**	**J B**	0.50	0.080	ug/L			02/03/20 21:02	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/03/20 21:02	1
o-Xylene	**0.17**	**J B**	0.50	0.15	ug/L			02/03/20 21:02	1

Client Sample ID: BH-02-W-8
Date Collected: 01/30/20 08:01
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**0.22**	**J**	1.0	0.17	ug/L			02/03/20 21:02	1
Styrene	ND		0.50	0.19	ug/L			02/03/20 21:02	1
tert-Butylbenzene	**0.13**	**J B**	0.50	0.10	ug/L			02/03/20 21:02	1
Tetrachloroethene	**0.090**	**J**	0.50	0.084	ug/L			02/03/20 21:02	1
Toluene	ND		0.20	0.050	ug/L			02/03/20 21:02	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 21:02	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 21:02	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 21:02	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 21:02	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*02/03/20 21:02*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*02/03/20 21:02*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*02/03/20 21:02*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/03/20 21:02*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 120*		*02/03/20 21:02*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*50 - 150*		*02/03/20 18:25*	*1*
Trifluorotoluene (Surr)	*91*		*50 - 150*		*02/03/20 18:25*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0057	ug/L		02/10/20 12:22	02/26/20 11:39	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.99	0.45	ug/L		02/04/20 15:10	02/18/20 13:30	1
2,4-D	**0.58**	**J**	4.0	0.52	ug/L		02/04/20 15:10	02/18/20 13:30	1
2,4-DB	ND		4.0	0.74	ug/L		02/04/20 15:10	02/18/20 13:30	1
Dalapon	ND		2.0	0.90	ug/L		02/04/20 15:10	02/18/20 13:30	1
Dicamba	**0.68**	**J**	2.0	0.43	ug/L		02/04/20 15:10	02/18/20 13:30	1
Dichlorprop	ND		4.0	0.64	ug/L		02/04/20 15:10	02/18/20 13:30	1
Dinoseb	**2.6**		0.99	0.45	ug/L		02/04/20 15:10	02/18/20 13:30	1
MCPA	ND		400	47	ug/L		02/04/20 15:10	02/18/20 13:30	1
MCPP	ND		400	33	ug/L		02/04/20 15:10	02/18/20 13:30	1
Picloram	ND		0.49	0.24	ug/L		02/04/20 15:10	02/18/20 13:30	1
Silvex (2,4,5-TP)	ND		0.99	0.17	ug/L		02/04/20 15:10	02/18/20 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*81*		*39 - 135*	*02/04/20 15:10*	*02/18/20 13:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.73**		0.11	0.065	mg/L		02/03/20 16:06	02/04/20 21:03	1
Motor Oil (>C24-C36)	**1.8**		0.35	0.096	mg/L		02/03/20 16:06	02/04/20 21:03	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-02-W-8

Date Collected: 01/30/20 08:01
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*61*		*50 - 150*	*02/03/20 16:06*	*02/04/20 21:03*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.42**		0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:40	5
Barium	**0.057**		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:40	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:40	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:40	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:40	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:40	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:40	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**	**B**	9.0	1.4	mg/L			02/03/20 15:05	10
Sulfate	**300**		12	2.6	mg/L			02/03/20 15:05	10
Ammonia as N	**200**		10	5.3	mg/L		02/03/20 18:41	02/03/20 18:43	20
Nitrate Nitrite as N	ND		0.15	0.060	mg/L			02/11/20 14:41	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-02-W-16
Date Collected: 01/30/20 09:14
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 19:43	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 19:43	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 19:43	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 19:43	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 19:43	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 19:43	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 19:43	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 19:43	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/03/20 19:43	1
1,2,4-Trichlorobenzene	**0.16**	**J B**	0.30	0.072	ug/L			02/03/20 19:43	1
1,2,4-Trimethylbenzene	**0.11**	**J B**	0.30	0.072	ug/L			02/03/20 19:43	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 19:43	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 19:43	1
1,2-Dichloroethane	**59**		0.20	0.043	ug/L			02/03/20 19:43	1
1,2-Dichloropropane	**1.4**		0.20	0.060	ug/L			02/03/20 19:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/03/20 19:43	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 19:43	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/03/20 19:43	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 19:43	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 19:43	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 19:43	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 19:43	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			02/03/20 19:43	1
Benzene	**0.035**	**J**	0.20	0.030	ug/L			02/03/20 19:43	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 19:43	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 19:43	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 19:43	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 19:43	1
Chlorobenzene	**0.057**	**J**	0.20	0.025	ug/L			02/03/20 19:43	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 19:43	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 19:43	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 19:43	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 19:43	1
Chloromethane	**0.29**	**J**	0.50	0.15	ug/L			02/03/20 19:43	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 19:43	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 19:43	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 19:43	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 19:43	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 19:43	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/03/20 19:43	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 19:43	1
Isopropylbenzene	**0.29**	**J B**	1.0	0.19	ug/L			02/03/20 19:43	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 19:43	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 19:43	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/03/20 19:43	1
Naphthalene	**0.36**	**J B**	1.0	0.22	ug/L			02/03/20 19:43	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/03/20 19:43	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/03/20 19:43	1
o-Xylene	**0.16**	**J B**	0.50	0.15	ug/L			02/03/20 19:43	1

Client Sample ID: BH-02-W-16
Date Collected: 01/30/20 09:14
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/03/20 19:43	1
Styrene	ND		0.50	0.19	ug/L			02/03/20 19:43	1
tert-Butylbenzene	**0.13**	**J B**	0.50	0.10	ug/L			02/03/20 19:43	1
Tetrachloroethene	**0.11**	**J**	0.50	0.084	ug/L			02/03/20 19:43	1
Toluene	ND		0.20	0.050	ug/L			02/03/20 19:43	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 19:43	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 19:43	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 19:43	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 19:43	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*02/03/20 19:43*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/03/20 19:43*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*02/03/20 19:43*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/03/20 19:43*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*02/03/20 19:43*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*50 - 150*		*02/03/20 19:12*	*1*
Trifluorotoluene (Surr)	*109*		*50 - 150*		*02/03/20 19:12*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.022	0.0056	ug/L		02/10/20 12:22	02/26/20 11:55	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.47	ug/L		02/04/20 15:10	02/18/20 13:56	1
2,4-D	ND		4.1	0.54	ug/L		02/04/20 15:10	02/18/20 13:56	1
2,4-DB	ND		4.1	0.77	ug/L		02/04/20 15:10	02/18/20 13:56	1
Dalapon	ND		2.1	0.94	ug/L		02/04/20 15:10	02/18/20 13:56	1
Dicamba	**1.1**	**J p**	2.1	0.45	ug/L		02/04/20 15:10	02/18/20 13:56	1
Dichlorprop	ND		4.1	0.67	ug/L		02/04/20 15:10	02/18/20 13:56	1
Dinoseb	ND		1.0	0.47	ug/L		02/04/20 15:10	02/18/20 13:56	1
MCPA	ND		410	49	ug/L		02/04/20 15:10	02/18/20 13:56	1
MCPP	ND		410	34	ug/L		02/04/20 15:10	02/18/20 13:56	1
Picloram	ND		0.52	0.25	ug/L		02/04/20 15:10	02/18/20 13:56	1
Silvex (2,4,5-TP)	ND		1.0	0.18	ug/L		02/04/20 15:10	02/18/20 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*69*		*39 - 135*	*02/04/20 15:10*	*02/18/20 13:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.075**	**J**	0.12	0.070	mg/L		02/03/20 16:06	02/04/20 21:25	1
Motor Oil (>C24-C36)	**0.12**	**J**	0.37	0.10	mg/L		02/03/20 16:06	02/04/20 21:25	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-02-W-16

Date Collected: 01/30/20 09:14
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*75*		*50 - 150*	*02/03/20 16:06*	*02/04/20 21:25*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0027**	**J**	0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:43	5
Barium	**0.050**		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:43	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:43	5
Chromium	**0.0041**		0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:43	5
Lead	**0.012**		0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:43	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:43	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:43	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67**	**B**	0.90	0.14	mg/L			02/03/20 15:16	1
Sulfate	**280**		12	2.6	mg/L			02/03/20 15:51	10
Ammonia as N	**54**		5.0	2.6	mg/L		02/03/20 18:41	02/03/20 18:43	10
Nitrate Nitrite as N	ND		0.15	0.060	mg/L			02/11/20 14:42	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-03-W-8
Date Collected: 01/29/20 16:17
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			01/31/20 16:58	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			01/31/20 16:58	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			01/31/20 16:58	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			01/31/20 16:58	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			01/31/20 16:58	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			01/31/20 16:58	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			01/31/20 16:58	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			01/31/20 16:58	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			01/31/20 16:58	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			01/31/20 16:58	1
1,2,4-Trimethylbenzene	**0.098**	**J B**	0.30	0.072	ug/L			01/31/20 16:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			01/31/20 16:58	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 16:58	1
1,2-Dichloroethane	**0.046**	**J**	0.20	0.043	ug/L			01/31/20 16:58	1
1,2-Dichloropropane	**0.65**		0.20	0.060	ug/L			01/31/20 16:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			01/31/20 16:58	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 16:58	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			01/31/20 16:58	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 16:58	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			01/31/20 16:58	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			01/31/20 16:58	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			01/31/20 16:58	1
4-Isopropyltoluene	**0.14**	**J B**	0.30	0.050	ug/L			01/31/20 16:58	1
Benzene	ND		0.20	0.030	ug/L			01/31/20 16:58	1
Bromobenzene	ND		0.20	0.035	ug/L			01/31/20 16:58	1
Bromoform	ND		0.50	0.16	ug/L			01/31/20 16:58	1
Bromomethane	ND		0.50	0.16	ug/L			01/31/20 16:58	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			01/31/20 16:58	1
Chlorobenzene	ND		0.20	0.025	ug/L			01/31/20 16:58	1
Chlorobromomethane	ND		0.20	0.025	ug/L			01/31/20 16:58	1
Chlorodibromomethane	**0.067**	**J**	0.20	0.055	ug/L			01/31/20 16:58	1
Chloroethane	ND		0.50	0.096	ug/L			01/31/20 16:58	1
Chloroform	**0.33**		0.20	0.030	ug/L			01/31/20 16:58	1
Chloromethane	**0.16**	**J**	0.50	0.15	ug/L			01/31/20 16:58	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			01/31/20 16:58	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			01/31/20 16:58	1
Dibromomethane	ND		0.20	0.062	ug/L			01/31/20 16:58	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			01/31/20 16:58	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			01/31/20 16:58	1
Ethylbenzene	**0.035**	**J**	0.20	0.030	ug/L			01/31/20 16:58	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			01/31/20 16:58	1
Isopropylbenzene	**0.29**	**J B**	1.0	0.19	ug/L			01/31/20 16:58	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			01/31/20 16:58	1
Methylene Chloride	ND		5.0	0.74	ug/L			01/31/20 16:58	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			01/31/20 16:58	1
Naphthalene	**0.35**	**J B**	1.0	0.22	ug/L			01/31/20 16:58	1
n-Butylbenzene	**0.16**	**J B**	0.50	0.080	ug/L			01/31/20 16:58	1
N-Propylbenzene	ND		0.30	0.091	ug/L			01/31/20 16:58	1
o-Xylene	**0.18**	**J B**	0.50	0.15	ug/L			01/31/20 16:58	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-03-W-8

Date Collected: 01/29/20 16:17
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			01/31/20 16:58	1
Styrene	ND		0.50	0.19	ug/L			01/31/20 16:58	1
tert-Butylbenzene	**0.12**	**J B**	0.50	0.10	ug/L			01/31/20 16:58	1
Tetrachloroethene	**0.087**	**J**	0.50	0.084	ug/L			01/31/20 16:58	1
Toluene	ND		0.20	0.050	ug/L			01/31/20 16:58	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			01/31/20 16:58	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			01/31/20 16:58	1
Trichloroethene	ND		0.20	0.066	ug/L			01/31/20 16:58	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			01/31/20 16:58	1
Vinyl chloride	ND		0.020	0.013	ug/L			01/31/20 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 120*		*01/31/20 16:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/31/20 16:58*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*01/31/20 16:58*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/20 16:58*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*01/31/20 16:58*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*50 - 150*		*02/03/20 19:36*	*1*
Trifluorotoluene (Surr)	*92*		*50 - 150*		*02/03/20 19:36*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0059	ug/L		02/10/20 12:22	02/26/20 12:11	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.99	0.45	ug/L		02/04/20 15:10	02/18/20 14:24	1
2,4-D	**5.1**		4.0	0.52	ug/L		02/04/20 15:10	02/18/20 14:24	1
2,4-DB	ND		4.0	0.74	ug/L		02/04/20 15:10	02/18/20 14:24	1
Dalapon	ND		2.0	0.90	ug/L		02/04/20 15:10	02/18/20 14:24	1
Dicamba	ND		2.0	0.43	ug/L		02/04/20 15:10	02/18/20 14:24	1
Dichlorprop	ND		4.0	0.64	ug/L		02/04/20 15:10	02/18/20 14:24	1
Dinoseb	ND		0.99	0.45	ug/L		02/04/20 15:10	02/18/20 14:24	1
MCPA	ND		400	47	ug/L		02/04/20 15:10	02/18/20 14:24	1
MCPP	ND		400	33	ug/L		02/04/20 15:10	02/18/20 14:24	1
Picloram	ND		0.50	0.24	ug/L		02/04/20 15:10	02/18/20 14:24	1
Silvex (2,4,5-TP)	ND		0.99	0.17	ug/L		02/04/20 15:10	02/18/20 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*79*		*39 - 135*	*02/04/20 15:10*	*02/18/20 14:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.075**	**J**	0.12	0.071	mg/L		02/03/20 16:06	02/04/20 21:46	1
Motor Oil (>C24-C36)	**0.15**	**J**	0.38	0.10	mg/L		02/03/20 16:06	02/04/20 21:46	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-03-W-8

Date Collected: 01/29/20 16:17
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*53*		*50 - 150*	*02/03/20 16:06*	*02/04/20 21:46*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.074**		0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:46	5
Barium	**0.057**		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:46	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:46	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:46	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:46	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:46	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:46	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99**	**B**	0.90	0.14	mg/L			02/03/20 16:03	1
Sulfate	**560**		12	2.6	mg/L			02/03/20 16:15	10
Ammonia as N	**0.33**	**J**	0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**0.59**		0.15	0.060	mg/L			02/11/20 14:43	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-03-W-16
Date Collected: 01/29/20 17:20
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			01/31/20 17:24	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			01/31/20 17:24	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			01/31/20 17:24	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			01/31/20 17:24	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			01/31/20 17:24	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			01/31/20 17:24	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			01/31/20 17:24	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			01/31/20 17:24	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			01/31/20 17:24	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			01/31/20 17:24	1
1,2,4-Trimethylbenzene	**0.098**	**J B**	0.30	0.072	ug/L			01/31/20 17:24	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			01/31/20 17:24	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 17:24	1
1,2-Dichloroethane	**0.051**	**J**	0.20	0.043	ug/L			01/31/20 17:24	1
1,2-Dichloropropane	**0.62**		0.20	0.060	ug/L			01/31/20 17:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			01/31/20 17:24	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 17:24	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			01/31/20 17:24	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 17:24	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			01/31/20 17:24	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			01/31/20 17:24	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			01/31/20 17:24	1
4-Isopropyltoluene	**0.14**	**J B**	0.30	0.050	ug/L			01/31/20 17:24	1
Benzene	ND		0.20	0.030	ug/L			01/31/20 17:24	1
Bromobenzene	ND		0.20	0.035	ug/L			01/31/20 17:24	1
Bromoform	ND		0.50	0.16	ug/L			01/31/20 17:24	1
Bromomethane	ND		0.50	0.16	ug/L			01/31/20 17:24	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			01/31/20 17:24	1
Chlorobenzene	ND		0.20	0.025	ug/L			01/31/20 17:24	1
Chlorobromomethane	ND		0.20	0.025	ug/L			01/31/20 17:24	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			01/31/20 17:24	1
Chloroethane	ND		0.50	0.096	ug/L			01/31/20 17:24	1
Chloroform	**0.13**	**J**	0.20	0.030	ug/L			01/31/20 17:24	1
Chloromethane	**0.19**	**J**	0.50	0.15	ug/L			01/31/20 17:24	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			01/31/20 17:24	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			01/31/20 17:24	1
Dibromomethane	ND		0.20	0.062	ug/L			01/31/20 17:24	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			01/31/20 17:24	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			01/31/20 17:24	1
Ethylbenzene	ND		0.20	0.030	ug/L			01/31/20 17:24	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			01/31/20 17:24	1
Isopropylbenzene	**0.29**	**J B**	1.0	0.19	ug/L			01/31/20 17:24	1
Methyl tert-butyl ether	**0.075**	**J**	0.30	0.070	ug/L			01/31/20 17:24	1
Methylene Chloride	ND		5.0	0.74	ug/L			01/31/20 17:24	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			01/31/20 17:24	1
Naphthalene	**0.35**	**J B**	1.0	0.22	ug/L			01/31/20 17:24	1
n-Butylbenzene	**0.15**	**J B**	0.50	0.080	ug/L			01/31/20 17:24	1
N-Propylbenzene	ND		0.30	0.091	ug/L			01/31/20 17:24	1
o-Xylene	**0.16**	**J B**	0.50	0.15	ug/L			01/31/20 17:24	1

Client Sample ID: BH-03-W-16
Date Collected: 01/29/20 17:20
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			01/31/20 17:24	1
Styrene	ND		0.50	0.19	ug/L			01/31/20 17:24	1
tert-Butylbenzene	**0.12**	**J B**	0.50	0.10	ug/L			01/31/20 17:24	1
Tetrachloroethene	**0.090**	**J**	0.50	0.084	ug/L			01/31/20 17:24	1
Toluene	ND		0.20	0.050	ug/L			01/31/20 17:24	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			01/31/20 17:24	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			01/31/20 17:24	1
Trichloroethene	ND		0.20	0.066	ug/L			01/31/20 17:24	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			01/31/20 17:24	1
Vinyl chloride	ND		0.020	0.013	ug/L			01/31/20 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*01/31/20 17:24*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/31/20 17:24*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*01/31/20 17:24*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/20 17:24*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 120*		*01/31/20 17:24*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*50 - 150*		*02/03/20 20:00*	*1*
Trifluorotoluene (Surr)	*96*		*50 - 150*		*02/03/20 20:00*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.022	0.0056	ug/L		02/07/20 11:23	02/25/20 16:04	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.97	0.44	ug/L		02/04/20 15:10	02/18/20 15:20	1
2,4-D	ND		3.9	0.51	ug/L		02/04/20 15:10	02/18/20 15:20	1
2,4-DB	ND		3.9	0.73	ug/L		02/04/20 15:10	02/18/20 15:20	1
Dalapon	ND		1.9	0.88	ug/L		02/04/20 15:10	02/18/20 15:20	1
Dicamba	ND		1.9	0.42	ug/L		02/04/20 15:10	02/18/20 15:20	1
Dichlorprop	ND		3.9	0.63	ug/L		02/04/20 15:10	02/18/20 15:20	1
Dinoseb	ND		0.97	0.44	ug/L		02/04/20 15:10	02/18/20 15:20	1
MCPA	ND		390	46	ug/L		02/04/20 15:10	02/18/20 15:20	1
MCPP	ND		390	32	ug/L		02/04/20 15:10	02/18/20 15:20	1
Picloram	ND		0.49	0.23	ug/L		02/04/20 15:10	02/18/20 15:20	1
Silvex (2,4,5-TP)	ND		0.97	0.17	ug/L		02/04/20 15:10	02/18/20 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*39 - 135*	*02/04/20 15:10*	*02/18/20 15:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.067**	**J**	0.11	0.065	mg/L		02/03/20 16:06	02/04/20 22:08	1
Motor Oil (>C24-C36)	**0.12**	**J**	0.35	0.096	mg/L		02/03/20 16:06	02/04/20 22:08	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-03-W-16

Date Collected: 01/29/20 17:20
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*71*		*50 - 150*	*02/03/20 16:06*	*02/04/20 22:08*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0037**	**J**	0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:48	5
Barium	**0.079**		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:48	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:48	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:48	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:48	5
Selenium	**0.011**	**J**	0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:48	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:48	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90**	**B**	0.90	0.14	mg/L			02/03/20 16:27	1
Sulfate	**360**		12	2.6	mg/L			02/03/20 16:38	10
Ammonia as N	**0.32**	**J**	0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**0.55**		0.15	0.060	mg/L			02/11/20 14:44	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-04-W-8

Date Collected: 01/29/20 14:34
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 20:10	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 20:10	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 20:10	1
1,1,2-Trichloroethane	**0.32**		0.20	0.070	ug/L			02/03/20 20:10	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 20:10	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 20:10	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 20:10	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 20:10	1
1,2,3-Trichloropropane	**1.1**		0.20	0.050	ug/L			02/03/20 20:10	1
1,2,4-Trichlorobenzene	**0.16**	**J B**	0.30	0.072	ug/L			02/03/20 20:10	1
1,2,4-Trimethylbenzene	**0.29**	**J B**	0.30	0.072	ug/L			02/03/20 20:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 20:10	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 20:10	1
1,2-Dichloroethane	**0.089**	**J**	0.20	0.043	ug/L			02/03/20 20:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/03/20 20:10	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 20:10	1
1,3-Dichloropropane	**0.080**	**J**	0.20	0.056	ug/L			02/03/20 20:10	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 20:10	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 20:10	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 20:10	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 20:10	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			02/03/20 20:10	1
Benzene	**0.072**	**J**	0.20	0.030	ug/L			02/03/20 20:10	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 20:10	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 20:10	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 20:10	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 20:10	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/03/20 20:10	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 20:10	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 20:10	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 20:10	1
Chloroform	**0.075**	**J**	0.20	0.030	ug/L			02/03/20 20:10	1
Chloromethane	**0.31**	**J**	0.50	0.15	ug/L			02/03/20 20:10	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 20:10	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 20:10	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 20:10	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 20:10	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 20:10	1
Ethylbenzene	**0.047**	**J**	0.20	0.030	ug/L			02/03/20 20:10	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 20:10	1
Isopropylbenzene	**0.30**	**J B**	1.0	0.19	ug/L			02/03/20 20:10	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 20:10	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 20:10	1
m-Xylene & p-Xylene	**0.23**	**J**	0.50	0.12	ug/L			02/03/20 20:10	1
Naphthalene	**0.50**	**J B**	1.0	0.22	ug/L			02/03/20 20:10	1
n-Butylbenzene	**0.20**	**J B**	0.50	0.080	ug/L			02/03/20 20:10	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/03/20 20:10	1
o-Xylene	**0.26**	**J B**	0.50	0.15	ug/L			02/03/20 20:10	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/03/20 20:10	1

Client Sample ID: BH-04-W-8

Date Collected: 01/29/20 14:34
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.19	ug/L			02/03/20 20:10	1
tert-Butylbenzene	**0.12**	**J B**	0.50	0.10	ug/L			02/03/20 20:10	1
Tetrachloroethene	**0.14**	**J**	0.50	0.084	ug/L			02/03/20 20:10	1
Toluene	ND		0.20	0.050	ug/L			02/03/20 20:10	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 20:10	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 20:10	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 20:10	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 20:10	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*02/03/20 20:10*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*02/03/20 20:10*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*02/03/20 20:10*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/03/20 20:10*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 120*		*02/03/20 20:10*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	**340**		2.0	0.60	ug/L			02/05/20 17:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*02/05/20 17:20*	*10*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/05/20 17:20*	*10*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*02/05/20 17:20*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/05/20 17:20*	*10*
Trifluorotoluene (Surr)	*109*		*80 - 120*		*02/05/20 17:20*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*50 - 150*		*02/03/20 20:24*	*1*
Trifluorotoluene (Surr)	*92*		*50 - 150*		*02/03/20 20:24*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0057	ug/L		02/10/20 12:22	02/26/20 12:28	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.1	0.51	ug/L		02/04/20 15:10	02/18/20 15:48	1
2,4-D	**12**		4.5	0.59	ug/L		02/04/20 15:10	02/18/20 15:48	1
2,4-DB	ND		4.5	0.84	ug/L		02/04/20 15:10	02/18/20 15:48	1
Dalapon	ND		2.2	1.0	ug/L		02/04/20 15:10	02/18/20 15:48	1
Dicamba	ND		2.2	0.49	ug/L		02/04/20 15:10	02/18/20 15:48	1
Dichlorprop	ND		4.5	0.73	ug/L		02/04/20 15:10	02/18/20 15:48	1
Dinoseb	ND		1.1	0.50	ug/L		02/04/20 15:10	02/18/20 15:48	1
MCPA	ND		450	53	ug/L		02/04/20 15:10	02/18/20 15:48	1
MCPP	ND		450	37	ug/L		02/04/20 15:10	02/18/20 15:48	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-04-W-8
Date Collected: 01/29/20 14:34
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-7
Matrix: Water

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Picloram	ND		0.56	0.27	ug/L		02/04/20 15:10	02/18/20 15:48	1
Silvex (2,4,5-TP)	ND		1.1	0.19	ug/L		02/04/20 15:10	02/18/20 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*80*		*39 - 135*	*02/04/20 15:10*	*02/18/20 15:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.066	mg/L		02/03/20 16:06	02/04/20 22:29	1
Motor Oil (>C24-C36)	**0.14**	**J**	0.36	0.098	mg/L		02/03/20 16:06	02/04/20 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*02/03/20 16:06*	*02/04/20 22:29*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.039**		0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:51	5
Barium	**0.073**		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:51	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:51	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:51	5
Lead	**0.0011**	**J**	0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:51	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:51	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:51	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**	**B**	9.0	1.4	mg/L			02/03/20 17:02	10
Sulfate	**360**		12	2.6	mg/L			02/03/20 17:02	10
Ammonia as N	**0.58**		0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**0.22**		0.15	0.060	mg/L			02/11/20 14:45	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-04-W-16
Date Collected: 01/29/20 15:32
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			01/31/20 17:51	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			01/31/20 17:51	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			01/31/20 17:51	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			01/31/20 17:51	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			01/31/20 17:51	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			01/31/20 17:51	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			01/31/20 17:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			01/31/20 17:51	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			01/31/20 17:51	1
1,2,4-Trichlorobenzene	**0.16**	**J B**	0.30	0.072	ug/L			01/31/20 17:51	1
1,2,4-Trimethylbenzene	**0.096**	**J B**	0.30	0.072	ug/L			01/31/20 17:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			01/31/20 17:51	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 17:51	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			01/31/20 17:51	1
1,2-Dichloropropane	**0.38**		0.20	0.060	ug/L			01/31/20 17:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			01/31/20 17:51	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 17:51	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			01/31/20 17:51	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 17:51	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			01/31/20 17:51	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			01/31/20 17:51	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			01/31/20 17:51	1
4-Isopropyltoluene	**0.14**	**J B**	0.30	0.050	ug/L			01/31/20 17:51	1
Benzene	ND		0.20	0.030	ug/L			01/31/20 17:51	1
Bromobenzene	ND		0.20	0.035	ug/L			01/31/20 17:51	1
Bromoform	ND		0.50	0.16	ug/L			01/31/20 17:51	1
Bromomethane	ND		0.50	0.16	ug/L			01/31/20 17:51	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			01/31/20 17:51	1
Chlorobenzene	ND		0.20	0.025	ug/L			01/31/20 17:51	1
Chlorobromomethane	ND		0.20	0.025	ug/L			01/31/20 17:51	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			01/31/20 17:51	1
Chloroethane	ND		0.50	0.096	ug/L			01/31/20 17:51	1
Chloroform	ND		0.20	0.030	ug/L			01/31/20 17:51	1
Chloromethane	**0.15**	**J**	0.50	0.15	ug/L			01/31/20 17:51	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			01/31/20 17:51	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			01/31/20 17:51	1
Dibromomethane	ND		0.20	0.062	ug/L			01/31/20 17:51	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			01/31/20 17:51	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			01/31/20 17:51	1
Ethylbenzene	ND		0.20	0.030	ug/L			01/31/20 17:51	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			01/31/20 17:51	1
Isopropylbenzene	**0.29**	**J B**	1.0	0.19	ug/L			01/31/20 17:51	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			01/31/20 17:51	1
Methylene Chloride	ND		5.0	0.74	ug/L			01/31/20 17:51	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			01/31/20 17:51	1
Naphthalene	**0.35**	**J B**	1.0	0.22	ug/L			01/31/20 17:51	1
n-Butylbenzene	**0.15**	**J B**	0.50	0.080	ug/L			01/31/20 17:51	1
N-Propylbenzene	ND		0.30	0.091	ug/L			01/31/20 17:51	1
o-Xylene	**0.16**	**J B**	0.50	0.15	ug/L			01/31/20 17:51	1

Client Sample ID: BH-04-W-16
Date Collected: 01/29/20 15:32
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			01/31/20 17:51	1
Styrene	ND		0.50	0.19	ug/L			01/31/20 17:51	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			01/31/20 17:51	1
Tetrachloroethene	ND		0.50	0.084	ug/L			01/31/20 17:51	1
Toluene	ND		0.20	0.050	ug/L			01/31/20 17:51	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			01/31/20 17:51	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			01/31/20 17:51	1
Trichloroethene	ND		0.20	0.066	ug/L			01/31/20 17:51	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			01/31/20 17:51	1
Vinyl chloride	ND		0.020	0.013	ug/L			01/31/20 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*01/31/20 17:51*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*01/31/20 17:51*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*01/31/20 17:51*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/20 17:51*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*01/31/20 17:51*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*50 - 150*		*02/03/20 20:48*	*1*
Trifluorotoluene (Surr)	*96*		*50 - 150*		*02/03/20 20:48*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0057	ug/L		02/10/20 12:22	02/26/20 12:44	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.99	0.45	ug/L		02/04/20 15:10	02/18/20 16:15	1
2,4-D	ND		4.0	0.52	ug/L		02/04/20 15:10	02/18/20 16:15	1
2,4-DB	ND		4.0	0.74	ug/L		02/04/20 15:10	02/18/20 16:15	1
Dalapon	ND		2.0	0.90	ug/L		02/04/20 15:10	02/18/20 16:15	1
Dicamba	ND		2.0	0.43	ug/L		02/04/20 15:10	02/18/20 16:15	1
Dichlorprop	ND		4.0	0.64	ug/L		02/04/20 15:10	02/18/20 16:15	1
Dinoseb	ND		0.99	0.44	ug/L		02/04/20 15:10	02/18/20 16:15	1
MCPA	ND		400	47	ug/L		02/04/20 15:10	02/18/20 16:15	1
MCPP	ND		400	33	ug/L		02/04/20 15:10	02/18/20 16:15	1
Picloram	ND		0.49	0.24	ug/L		02/04/20 15:10	02/18/20 16:15	1
Silvex (2,4,5-TP)	ND		0.99	0.17	ug/L		02/04/20 15:10	02/18/20 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*77*		*39 - 135*	*02/04/20 15:10*	*02/18/20 16:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.12	0.069	mg/L		02/03/20 16:06	02/04/20 22:50	1
Motor Oil (>C24-C36)	**0.13**	**J**	0.37	0.10	mg/L		02/03/20 16:06	02/04/20 22:50	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-04-W-16

Date Collected: 01/29/20 15:32
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-8

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*78*		*50 - 150*	*02/03/20 16:06*	*02/04/20 22:50*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0046**	**J**	0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:54	5
Barium	**0.042**		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:54	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:54	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:54	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:54	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:54	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:54	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20**	**B**	0.90	0.14	mg/L			02/03/20 17:14	1
Sulfate	**90**		1.2	0.26	mg/L			02/03/20 17:14	1
Ammonia as N	**0.30**	**J**	0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	ND		0.15	0.060	mg/L			02/11/20 14:46	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-05-W-8
Date Collected: 01/29/20 12:39
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			01/31/20 18:17	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			01/31/20 18:17	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			01/31/20 18:17	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			01/31/20 18:17	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			01/31/20 18:17	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			01/31/20 18:17	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			01/31/20 18:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			01/31/20 18:17	1
1,2,3-Trichloropropane	**0.20**		0.20	0.050	ug/L			01/31/20 18:17	1
1,2,4-Trichlorobenzene	**0.16**	**J B**	0.30	0.072	ug/L			01/31/20 18:17	1
1,2,4-Trimethylbenzene	**0.38**	**B**	0.30	0.072	ug/L			01/31/20 18:17	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			01/31/20 18:17	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 18:17	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			01/31/20 18:17	1
1,2-Dichloropropane	**4.0**		0.20	0.060	ug/L			01/31/20 18:17	1
1,3,5-Trimethylbenzene	**0.18**	**J**	0.50	0.15	ug/L			01/31/20 18:17	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 18:17	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			01/31/20 18:17	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 18:17	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			01/31/20 18:17	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			01/31/20 18:17	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			01/31/20 18:17	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			01/31/20 18:17	1
Benzene	**0.36**		0.20	0.030	ug/L			01/31/20 18:17	1
Bromobenzene	ND		0.20	0.035	ug/L			01/31/20 18:17	1
Bromoform	ND		0.50	0.16	ug/L			01/31/20 18:17	1
Bromomethane	ND		0.50	0.16	ug/L			01/31/20 18:17	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			01/31/20 18:17	1
Chlorobenzene	ND		0.20	0.025	ug/L			01/31/20 18:17	1
Chlorobromomethane	ND		0.20	0.025	ug/L			01/31/20 18:17	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			01/31/20 18:17	1
Chloroethane	ND		0.50	0.096	ug/L			01/31/20 18:17	1
Chloroform	ND		0.20	0.030	ug/L			01/31/20 18:17	1
Chloromethane	**0.64**		0.50	0.15	ug/L			01/31/20 18:17	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			01/31/20 18:17	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			01/31/20 18:17	1
Dibromomethane	ND		0.20	0.062	ug/L			01/31/20 18:17	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			01/31/20 18:17	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			01/31/20 18:17	1
Ethylbenzene	ND		0.20	0.030	ug/L			01/31/20 18:17	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			01/31/20 18:17	1
Isopropylbenzene	**0.30**	**J B**	1.0	0.19	ug/L			01/31/20 18:17	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			01/31/20 18:17	1
Methylene Chloride	ND		5.0	0.74	ug/L			01/31/20 18:17	1
m-Xylene & p-Xylene	**0.21**	**J**	0.50	0.12	ug/L			01/31/20 18:17	1
Naphthalene	**0.55**	**J B**	1.0	0.22	ug/L			01/31/20 18:17	1
n-Butylbenzene	ND		0.50	0.080	ug/L			01/31/20 18:17	1
N-Propylbenzene	ND		0.30	0.091	ug/L			01/31/20 18:17	1
o-Xylene	**0.29**	**J B**	0.50	0.15	ug/L			01/31/20 18:17	1

Client Sample ID: BH-05-W-8
Date Collected: 01/29/20 12:39
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			01/31/20 18:17	1
Styrene	ND		0.50	0.19	ug/L			01/31/20 18:17	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			01/31/20 18:17	1
Tetrachloroethene	ND		0.50	0.084	ug/L			01/31/20 18:17	1
Toluene	ND		0.20	0.050	ug/L			01/31/20 18:17	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			01/31/20 18:17	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			01/31/20 18:17	1
Trichloroethene	ND		0.20	0.066	ug/L			01/31/20 18:17	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			01/31/20 18:17	1
Vinyl chloride	ND		0.020	0.013	ug/L			01/31/20 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*01/31/20 18:17*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*01/31/20 18:17*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*01/31/20 18:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/31/20 18:17*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 120*		*01/31/20 18:17*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*50 - 150*		*02/03/20 21:12*	*1*
Trifluorotoluene (Surr)	*109*		*50 - 150*		*02/03/20 21:12*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.024	0.0061	ug/L		02/10/20 12:22	02/26/20 13:00	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.1	0.48	ug/L		02/04/20 15:10	02/18/20 16:43	1
2,4-D	ND		4.2	0.55	ug/L		02/04/20 15:10	02/18/20 16:43	1
2,4-DB	ND		4.2	0.79	ug/L		02/04/20 15:10	02/18/20 16:43	1
Dalapon	ND		2.1	0.96	ug/L		02/04/20 15:10	02/18/20 16:43	1
Dicamba	ND		2.1	0.46	ug/L		02/04/20 15:10	02/18/20 16:43	1
Dichlorprop	ND		4.2	0.68	ug/L		02/04/20 15:10	02/18/20 16:43	1
Dinoseb	ND		1.1	0.47	ug/L		02/04/20 15:10	02/18/20 16:43	1
MCPA	ND		420	50	ug/L		02/04/20 15:10	02/18/20 16:43	1
MCPP	ND		420	35	ug/L		02/04/20 15:10	02/18/20 16:43	1
Picloram	ND		0.53	0.25	ug/L		02/04/20 15:10	02/18/20 16:43	1
Silvex (2,4,5-TP)	ND		1.1	0.18	ug/L		02/04/20 15:10	02/18/20 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*79*		*39 - 135*	*02/04/20 15:10*	*02/18/20 16:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.12	0.070	mg/L		02/03/20 16:06	02/04/20 23:12	1
Motor Oil (>C24-C36)	ND		0.38	0.10	mg/L		02/03/20 16:06	02/04/20 23:12	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-05-W-8

Date Collected: 01/29/20 12:39
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-9

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*66*		*50 - 150*	*02/03/20 16:06*	*02/04/20 23:12*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.038**		0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:57	5
Barium	**0.042**		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:57	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:57	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:57	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:57	5
Selenium	**0.012**	**J**	0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:57	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:57	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31**	**B**	0.90	0.14	mg/L			02/03/20 18:12	1
Sulfate	**190**		12	2.6	mg/L			02/03/20 23:05	10
Ammonia as N	ND		0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**93**		15	6.0	mg/L			02/15/20 18:14	100

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-05-W-16
Date Collected: 01/29/20 13:47
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 18:50	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 18:50	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 18:50	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 18:50	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 18:50	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 18:50	1
1,1-Dichloropropene	**0.052**	**J**	0.20	0.036	ug/L			02/03/20 18:50	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 18:50	1
1,2,3-Trichloropropane	**0.069**	**J**	0.20	0.050	ug/L			02/03/20 18:50	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/03/20 18:50	1
1,2,4-Trimethylbenzene	**0.38**	**B**	0.30	0.072	ug/L			02/03/20 18:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 18:50	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 18:50	1
1,2-Dichloroethane	**0.060**	**J**	0.20	0.043	ug/L			02/03/20 18:50	1
1,2-Dichloropropane	**0.18**	**J**	0.20	0.060	ug/L			02/03/20 18:50	1
1,3,5-Trimethylbenzene	**0.17**	**J**	0.50	0.15	ug/L			02/03/20 18:50	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 18:50	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/03/20 18:50	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 18:50	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 18:50	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 18:50	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 18:50	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			02/03/20 18:50	1
Benzene	**0.13**	**J**	0.20	0.030	ug/L			02/03/20 18:50	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 18:50	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 18:50	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 18:50	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 18:50	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/03/20 18:50	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 18:50	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 18:50	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 18:50	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 18:50	1
Chloromethane	**0.31**	**J**	0.50	0.15	ug/L			02/03/20 18:50	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 18:50	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 18:50	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 18:50	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 18:50	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 18:50	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/03/20 18:50	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 18:50	1
Isopropylbenzene	**0.30**	**J B**	1.0	0.19	ug/L			02/03/20 18:50	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 18:50	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 18:50	1
m-Xylene & p-Xylene	**0.16**	**J**	0.50	0.12	ug/L			02/03/20 18:50	1
Naphthalene	**0.57**	**J B**	1.0	0.22	ug/L			02/03/20 18:50	1
n-Butylbenzene	**0.22**	**J B**	0.50	0.080	ug/L			02/03/20 18:50	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/03/20 18:50	1
o-Xylene	**0.26**	**J B**	0.50	0.15	ug/L			02/03/20 18:50	1

Client Sample ID: BH-05-W-16
Date Collected: 01/29/20 13:47
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/03/20 18:50	1
Styrene	ND		0.50	0.19	ug/L			02/03/20 18:50	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/03/20 18:50	1
Tetrachloroethene	**0.084**	**J**	0.50	0.084	ug/L			02/03/20 18:50	1
Toluene	ND		0.20	0.050	ug/L			02/03/20 18:50	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 18:50	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 18:50	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 18:50	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 18:50	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*02/03/20 18:50*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*02/03/20 18:50*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*02/03/20 18:50*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/03/20 18:50*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 120*		*02/03/20 18:50*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*50 - 150*		*02/03/20 21:36*	*1*
Trifluorotoluene (Surr)	*90*		*50 - 150*		*02/03/20 21:36*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0056	ug/L		02/10/20 12:22	02/26/20 13:16	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/04/20 15:10	02/18/20 17:09	1
2,4-D	ND		4.0	0.53	ug/L		02/04/20 15:10	02/18/20 17:09	1
2,4-DB	ND		4.0	0.75	ug/L		02/04/20 15:10	02/18/20 17:09	1
Dalapon	ND		2.0	0.92	ug/L		02/04/20 15:10	02/18/20 17:09	1
Dicamba	ND		2.0	0.44	ug/L		02/04/20 15:10	02/18/20 17:09	1
Dichlorprop	ND		4.0	0.65	ug/L		02/04/20 15:10	02/18/20 17:09	1
Dinoseb	ND		1.0	0.45	ug/L		02/04/20 15:10	02/18/20 17:09	1
MCPA	ND		400	48	ug/L		02/04/20 15:10	02/18/20 17:09	1
MCPP	ND		400	33	ug/L		02/04/20 15:10	02/18/20 17:09	1
Picloram	ND		0.50	0.24	ug/L		02/04/20 15:10	02/18/20 17:09	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/04/20 15:10	02/18/20 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*39 - 135*	*02/04/20 15:10*	*02/18/20 17:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.12	0.072	mg/L		02/03/20 16:06	02/04/20 23:33	1
Motor Oil (>C24-C36)	ND		0.39	0.11	mg/L		02/03/20 16:06	02/04/20 23:33	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-05-W-16

Date Collected: 01/29/20 13:47
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*02/03/20 16:06*	*02/04/20 23:33*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**		0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:59	5
Barium	**0.029**		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:59	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:59	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:59	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:59	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:59	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:59	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**	**B**	9.0	1.4	mg/L			02/03/20 18:36	10
Sulfate	**460**		12	2.6	mg/L			02/03/20 18:36	10
Ammonia as N	ND	F2 F1	0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**6.5**		3.0	1.2	mg/L			02/15/20 18:15	20

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-06-W-8
Date Collected: 01/29/20 10:39
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 22:22	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 22:22	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 22:22	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 22:22	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 22:22	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 22:22	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 22:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 22:22	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/03/20 22:22	1
1,2,4-Trichlorobenzene	**0.17**	**J B**	0.30	0.072	ug/L			02/03/20 22:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 22:22	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 22:22	1
1,2-Dichloroethane	**0.21**		0.20	0.043	ug/L			02/03/20 22:22	1
1,2-Dichloropropane	**0.12**	**J**	0.20	0.060	ug/L			02/03/20 22:22	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 22:22	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/03/20 22:22	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 22:22	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 22:22	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 22:22	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 22:22	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			02/03/20 22:22	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 22:22	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 22:22	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 22:22	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 22:22	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/03/20 22:22	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 22:22	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 22:22	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 22:22	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 22:22	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 22:22	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 22:22	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 22:22	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 22:22	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 22:22	1
Ethylbenzene	**0.052**	**J**	0.20	0.030	ug/L			02/03/20 22:22	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 22:22	1
Isopropylbenzene	**0.34**	**J B**	1.0	0.19	ug/L			02/03/20 22:22	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 22:22	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 22:22	1
N-Propylbenzene	**0.093**	**J**	0.30	0.091	ug/L			02/03/20 22:22	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/03/20 22:22	1
Styrene	ND		0.50	0.19	ug/L			02/03/20 22:22	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/03/20 22:22	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/03/20 22:22	1
Toluene	ND		0.20	0.050	ug/L			02/03/20 22:22	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 22:22	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 22:22	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 22:22	1

Client Sample ID: BH-06-W-8

Date Collected: 01/29/20 10:39
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-11

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 22:22	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*02/03/20 22:22*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/03/20 22:22*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*02/03/20 22:22*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*02/03/20 22:22*	*1*
Trifluorotoluene (Surr)	*93*		*80 - 120*		*02/03/20 22:22*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**0.55**	**B**	0.30	0.072	ug/L			02/05/20 13:49	1
1,3,5-Trimethylbenzene	**0.24**	**J**	0.50	0.15	ug/L			02/05/20 13:49	1
Benzene	**2.1**		0.20	0.030	ug/L			02/05/20 13:49	1
Chloromethane	**0.39**	**J**	0.50	0.15	ug/L			02/05/20 13:49	1
m-Xylene & p-Xylene	**0.49**	**J**	0.50	0.12	ug/L			02/05/20 13:49	1
Naphthalene	**0.61**	**J B**	1.0	0.22	ug/L			02/05/20 13:49	1
n-Butylbenzene	**0.22**	**J B**	0.50	0.080	ug/L			02/05/20 13:49	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/05/20 13:49	1
o-Xylene	**0.46**	**J B**	0.50	0.15	ug/L			02/05/20 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*02/05/20 13:49*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*02/05/20 13:49*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*02/05/20 13:49*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/05/20 13:49*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*02/05/20 13:49*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*50 - 150*		*02/03/20 22:00*	*1*
Trifluorotoluene (Surr)	*95*		*50 - 150*		*02/03/20 22:00*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0058	ug/L		02/07/20 11:23	02/25/20 16:20	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.1	0.50	ug/L		02/04/20 15:10	02/18/20 17:37	1
2,4-D	**6.8**		4.4	0.58	ug/L		02/04/20 15:10	02/18/20 17:37	1
2,4-DB	ND		4.4	0.83	ug/L		02/04/20 15:10	02/18/20 17:37	1
Dalapon	ND		2.2	1.0	ug/L		02/04/20 15:10	02/18/20 17:37	1
Dicamba	ND		2.2	0.48	ug/L		02/04/20 15:10	02/18/20 17:37	1
Dichlorprop	ND		4.4	0.72	ug/L		02/04/20 15:10	02/18/20 17:37	1
Dinoseb	ND		1.1	0.50	ug/L		02/04/20 15:10	02/18/20 17:37	1
MCPA	ND		440	53	ug/L		02/04/20 15:10	02/18/20 17:37	1

Client Sample ID: BH-06-W-8
Date Collected: 01/29/20 10:39
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-11
Matrix: Water

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MCPP	ND		440	37	ug/L		02/04/20 15:10	02/18/20 17:37	1
Picloram	ND		0.55	0.27	ug/L		02/04/20 15:10	02/18/20 17:37	1
Silvex (2,4,5-TP)	ND		1.1	0.19	ug/L		02/04/20 15:10	02/18/20 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*85*		*39 - 135*	*02/04/20 15:10*	*02/18/20 17:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.12	0.068	mg/L		02/03/20 16:06	02/04/20 23:55	1
Motor Oil (>C24-C36)	**0.16**	**J**	0.37	0.10	mg/L		02/03/20 16:06	02/04/20 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*02/03/20 16:06*	*02/04/20 23:55*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.017**		0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:03	5
Barium	**0.065**		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:03	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:03	5
Chromium	**0.0012**	**J**	0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:03	5
Lead	**0.0028**	**J**	0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:03	5
Selenium	**0.023**	**J**	0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:03	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:03	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**	**B**	9.0	1.4	mg/L			02/03/20 18:59	10
Sulfate	**520**		12	2.6	mg/L			02/03/20 18:59	10
Ammonia as N	**0.85**		0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**6.6**		3.0	1.2	mg/L			02/15/20 18:16	20

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-06-W-16
Date Collected: 01/29/20 11:45
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 20:36	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 20:36	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 20:36	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 20:36	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 20:36	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 20:36	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 20:36	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 20:36	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/03/20 20:36	1
1,2,4-Trichlorobenzene	**0.16**	**J B**	0.30	0.072	ug/L			02/03/20 20:36	1
1,2,4-Trimethylbenzene	**0.90**	**B**	0.30	0.072	ug/L			02/03/20 20:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 20:36	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 20:36	1
1,2-Dichloroethane	**0.40**		0.20	0.043	ug/L			02/03/20 20:36	1
1,2-Dichloropropane	**0.13**	**J**	0.20	0.060	ug/L			02/03/20 20:36	1
1,3,5-Trimethylbenzene	**0.40**	**J**	0.50	0.15	ug/L			02/03/20 20:36	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 20:36	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/03/20 20:36	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 20:36	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 20:36	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 20:36	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 20:36	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			02/03/20 20:36	1
Benzene	**1.1**		0.20	0.030	ug/L			02/03/20 20:36	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 20:36	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 20:36	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 20:36	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 20:36	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/03/20 20:36	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 20:36	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 20:36	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 20:36	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 20:36	1
Chloromethane	**0.21**	**J**	0.50	0.15	ug/L			02/03/20 20:36	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 20:36	1
cis-1,3-Dichloropropene	**0.15**	**J B**	0.20	0.090	ug/L			02/03/20 20:36	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 20:36	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 20:36	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 20:36	1
Ethylbenzene	**0.041**	**J**	0.20	0.030	ug/L			02/03/20 20:36	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 20:36	1
Isopropylbenzene	**0.32**	**J B**	1.0	0.19	ug/L			02/03/20 20:36	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 20:36	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 20:36	1
m-Xylene & p-Xylene	**0.42**	**J**	0.50	0.12	ug/L			02/03/20 20:36	1
Naphthalene	**0.79**	**J B**	1.0	0.22	ug/L			02/03/20 20:36	1
n-Butylbenzene	**0.44**	**J B**	0.50	0.080	ug/L			02/03/20 20:36	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/03/20 20:36	1
o-Xylene	**0.44**	**J B**	0.50	0.15	ug/L			02/03/20 20:36	1

Client Sample ID: BH-06-W-16
Date Collected: 01/29/20 11:45
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/03/20 20:36	1
Styrene	ND		0.50	0.19	ug/L			02/03/20 20:36	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/03/20 20:36	1
Tetrachloroethene	**0.11**	**J**	0.50	0.084	ug/L			02/03/20 20:36	1
Toluene	**0.073**	**J**	0.20	0.050	ug/L			02/03/20 20:36	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 20:36	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 20:36	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 20:36	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 20:36	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*02/03/20 20:36*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*02/03/20 20:36*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*02/03/20 20:36*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/03/20 20:36*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 120*		*02/03/20 20:36*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*		*02/03/20 22:25*	*1*
Trifluorotoluene (Surr)	*87*		*50 - 150*		*02/03/20 22:25*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0057	ug/L		02/07/20 11:23	02/25/20 16:37	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.1	0.48	ug/L		02/04/20 15:10	02/25/20 13:33	1
2,4-D	ND		4.2	0.56	ug/L		02/04/20 15:10	02/25/20 13:33	1
2,4-DB	ND		4.2	0.79	ug/L		02/04/20 15:10	02/25/20 13:33	1
Dalapon	ND		2.1	0.97	ug/L		02/04/20 15:10	02/25/20 13:33	1
Dicamba	ND		2.1	0.46	ug/L		02/04/20 15:10	02/25/20 13:33	1
Dichlorprop	ND		4.2	0.69	ug/L		02/04/20 15:10	02/25/20 13:33	1
Dinoseb	ND		1.1	0.48	ug/L		02/04/20 15:10	02/25/20 13:33	1
MCPA	ND		420	50	ug/L		02/04/20 15:10	02/25/20 13:33	1
MCPP	ND		420	35	ug/L		02/04/20 15:10	02/25/20 13:33	1
Picloram	ND		0.53	0.25	ug/L		02/04/20 15:10	02/25/20 13:33	1
Silvex (2,4,5-TP)	ND		1.1	0.18	ug/L		02/04/20 15:10	02/25/20 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*82*		*39 - 135*	*02/04/20 15:10*	*02/25/20 13:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.26**		0.12	0.070	mg/L		02/03/20 16:06	02/05/20 00:16	1
Motor Oil (>C24-C36)	**0.30**	**J**	0.38	0.10	mg/L		02/03/20 16:06	02/05/20 00:16	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-06-W-16

Date Collected: 01/29/20 11:45
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-12

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*72*		*50 - 150*	*02/03/20 16:06*	*02/05/20 00:16*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.010**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 12:52	5
Barium	**0.22**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 12:52	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 12:52	5
Chromium	**0.0065**		0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 12:52	5
Lead	**0.0053**		0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 12:52	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 12:52	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 12:52	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**	**B**	9.0	1.4	mg/L			02/03/20 19:22	10
Sulfate	**240**		12	2.6	mg/L			02/03/20 19:22	10
Ammonia as N	**1.0**		0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**1.2**	**J**	1.5	0.60	mg/L			02/15/20 18:20	10

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-07-W-8
Date Collected: 01/29/20 09:41
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			01/31/20 18:44	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			01/31/20 18:44	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			01/31/20 18:44	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			01/31/20 18:44	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			01/31/20 18:44	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			01/31/20 18:44	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			01/31/20 18:44	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			01/31/20 18:44	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			01/31/20 18:44	1
1,2,4-Trichlorobenzene	**0.16**	**J B**	0.30	0.072	ug/L			01/31/20 18:44	1
1,2,4-Trimethylbenzene	**1.2**	**B**	0.30	0.072	ug/L			01/31/20 18:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			01/31/20 18:44	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 18:44	1
1,2-Dichloroethane	**0.13**	**J**	0.20	0.043	ug/L			01/31/20 18:44	1
1,2-Dichloropropane	**31**		0.20	0.060	ug/L			01/31/20 18:44	1
1,3,5-Trimethylbenzene	**0.48**	**J**	0.50	0.15	ug/L			01/31/20 18:44	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 18:44	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			01/31/20 18:44	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 18:44	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			01/31/20 18:44	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			01/31/20 18:44	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			01/31/20 18:44	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			01/31/20 18:44	1
Benzene	**5.5**		0.20	0.030	ug/L			01/31/20 18:44	1
Bromobenzene	ND		0.20	0.035	ug/L			01/31/20 18:44	1
Bromoform	ND		0.50	0.16	ug/L			01/31/20 18:44	1
Bromomethane	ND		0.50	0.16	ug/L			01/31/20 18:44	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			01/31/20 18:44	1
Chlorobenzene	ND		0.20	0.025	ug/L			01/31/20 18:44	1
Chlorobromomethane	ND		0.20	0.025	ug/L			01/31/20 18:44	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			01/31/20 18:44	1
Chloroethane	ND		0.50	0.096	ug/L			01/31/20 18:44	1
Chloroform	**0.034**	**J**	0.20	0.030	ug/L			01/31/20 18:44	1
Chloromethane	**0.16**	**J**	0.50	0.15	ug/L			01/31/20 18:44	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			01/31/20 18:44	1
cis-1,3-Dichloropropene	**0.15**	**J**	0.20	0.090	ug/L			01/31/20 18:44	1
Dibromomethane	ND		0.20	0.062	ug/L			01/31/20 18:44	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			01/31/20 18:44	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			01/31/20 18:44	1
Ethylbenzene	**0.062**	**J**	0.20	0.030	ug/L			01/31/20 18:44	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			01/31/20 18:44	1
Isopropylbenzene	**0.34**	**J B**	1.0	0.19	ug/L			01/31/20 18:44	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			01/31/20 18:44	1
Methylene Chloride	ND		5.0	0.74	ug/L			01/31/20 18:44	1
m-Xylene & p-Xylene	**0.85**		0.50	0.12	ug/L			01/31/20 18:44	1
Naphthalene	**0.91**	**J B**	1.0	0.22	ug/L			01/31/20 18:44	1
n-Butylbenzene	**0.43**	**J B**	0.50	0.080	ug/L			01/31/20 18:44	1
N-Propylbenzene	ND		0.30	0.091	ug/L			01/31/20 18:44	1
o-Xylene	**0.69**	**B**	0.50	0.15	ug/L			01/31/20 18:44	1

Client Sample ID: BH-07-W-8
Date Collected: 01/29/20 09:41
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			01/31/20 18:44	1
Styrene	ND		0.50	0.19	ug/L			01/31/20 18:44	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			01/31/20 18:44	1
Tetrachloroethene	**0.15**	**J**	0.50	0.084	ug/L			01/31/20 18:44	1
Toluene	**0.070**	**J**	0.20	0.050	ug/L			01/31/20 18:44	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			01/31/20 18:44	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			01/31/20 18:44	1
Trichloroethene	ND		0.20	0.066	ug/L			01/31/20 18:44	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			01/31/20 18:44	1
Vinyl chloride	ND		0.020	0.013	ug/L			01/31/20 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*01/31/20 18:44*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/31/20 18:44*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*01/31/20 18:44*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*01/31/20 18:44*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*01/31/20 18:44*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*50 - 150*		*02/03/20 22:49*	*1*
Trifluorotoluene (Surr)	*102*		*50 - 150*		*02/03/20 22:49*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0058	ug/L		02/07/20 11:23	02/25/20 16:53	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/04/20 15:10	02/18/20 18:33	1
2,4-D	ND		4.0	0.53	ug/L		02/04/20 15:10	02/18/20 18:33	1
2,4-DB	ND		4.0	0.75	ug/L		02/04/20 15:10	02/18/20 18:33	1
Dalapon	ND		2.0	0.91	ug/L		02/04/20 15:10	02/18/20 18:33	1
Dicamba	ND		2.0	0.44	ug/L		02/04/20 15:10	02/18/20 18:33	1
Dichlorprop	ND		4.0	0.65	ug/L		02/04/20 15:10	02/18/20 18:33	1
Dinoseb	ND		1.0	0.45	ug/L		02/04/20 15:10	02/18/20 18:33	1
MCPA	ND		400	48	ug/L		02/04/20 15:10	02/18/20 18:33	1
MCPP	ND		400	33	ug/L		02/04/20 15:10	02/18/20 18:33	1
Picloram	ND		0.50	0.24	ug/L		02/04/20 15:10	02/18/20 18:33	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/04/20 15:10	02/18/20 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*39 - 135*	*02/04/20 15:10*	*02/18/20 18:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.066	mg/L		02/03/20 16:06	02/05/20 00:59	1
Motor Oil (>C24-C36)	**0.15**	**J**	0.36	0.098	mg/L		02/03/20 16:06	02/05/20 00:59	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-07-W-8

Date Collected: 01/29/20 09:41
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-13

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	64		50 - 150	02/03/20 16:06	02/05/20 00:59	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.036**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 13:22	5
Barium	**0.088**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 13:22	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 13:22	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 13:22	5
Lead	**0.0022**	**J**	0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 13:22	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 13:22	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 13:22	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**	**B**	9.0	1.4	mg/L			02/03/20 19:46	10
Sulfate	**360**		12	2.6	mg/L			02/03/20 19:46	10
Ammonia as N	ND		0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**64**		15	6.0	mg/L			02/15/20 18:21	100

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-08-W-8
Date Collected: 01/29/20 08:46
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			01/31/20 19:11	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			01/31/20 19:11	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			01/31/20 19:11	1
1,1,2-Trichloroethane	**8.7**		0.20	0.070	ug/L			01/31/20 19:11	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			01/31/20 19:11	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			01/31/20 19:11	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			01/31/20 19:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			01/31/20 19:11	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			01/31/20 19:11	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			01/31/20 19:11	1
1,2,4-Trimethylbenzene	**120**	**E B**	0.30	0.072	ug/L			01/31/20 19:11	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			01/31/20 19:11	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 19:11	1
1,2-Dichloroethane	**23**		0.20	0.043	ug/L			01/31/20 19:11	1
1,2-Dichloropropane	**16**		0.20	0.060	ug/L			01/31/20 19:11	1
1,3,5-Trimethylbenzene	**59**		0.50	0.15	ug/L			01/31/20 19:11	1
1,3-Dichlorobenzene	**0.085**	**J**	0.30	0.050	ug/L			01/31/20 19:11	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			01/31/20 19:11	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 19:11	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			01/31/20 19:11	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			01/31/20 19:11	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			01/31/20 19:11	1
4-Isopropyltoluene	**1.3**	**B**	0.30	0.050	ug/L			01/31/20 19:11	1
Benzene	**58**		0.20	0.030	ug/L			01/31/20 19:11	1
Bromobenzene	ND		0.20	0.035	ug/L			01/31/20 19:11	1
Bromoform	ND		0.50	0.16	ug/L			01/31/20 19:11	1
Bromomethane	ND		0.50	0.16	ug/L			01/31/20 19:11	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			01/31/20 19:11	1
Chlorobenzene	**0.080**	**J**	0.20	0.025	ug/L			01/31/20 19:11	1
Chlorobromomethane	ND		0.20	0.025	ug/L			01/31/20 19:11	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			01/31/20 19:11	1
Chloroethane	ND		0.50	0.096	ug/L			01/31/20 19:11	1
Chloroform	ND		0.20	0.030	ug/L			01/31/20 19:11	1
Chloromethane	**0.28**	**J**	0.50	0.15	ug/L			01/31/20 19:11	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			01/31/20 19:11	1
cis-1,3-Dichloropropene	**0.15**	**J**	0.20	0.090	ug/L			01/31/20 19:11	1
Dibromomethane	ND		0.20	0.062	ug/L			01/31/20 19:11	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			01/31/20 19:11	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			01/31/20 19:11	1
Ethylbenzene	**8.4**		0.20	0.030	ug/L			01/31/20 19:11	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			01/31/20 19:11	1
Isopropylbenzene	**7.3**	**B**	1.0	0.19	ug/L			01/31/20 19:11	1
Methyl tert-butyl ether	**0.095**	**J**	0.30	0.070	ug/L			01/31/20 19:11	1
Methylene Chloride	ND		5.0	0.74	ug/L			01/31/20 19:11	1
m-Xylene & p-Xylene	**68**		0.50	0.12	ug/L			01/31/20 19:11	1
Naphthalene	**60**	**B**	1.0	0.22	ug/L			01/31/20 19:11	1
n-Butylbenzene	**28**	**B**	0.50	0.080	ug/L			01/31/20 19:11	1
N-Propylbenzene	**12**		0.30	0.091	ug/L			01/31/20 19:11	1
o-Xylene	**19**	**B**	0.50	0.15	ug/L			01/31/20 19:11	1

Client Sample ID: BH-08-W-8
Date Collected: 01/29/20 08:46
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**3.0**		1.0	0.17	ug/L			01/31/20 19:11	1
Styrene	ND		0.50	0.19	ug/L			01/31/20 19:11	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			01/31/20 19:11	1
Tetrachloroethene	**0.15**	**J**	0.50	0.084	ug/L			01/31/20 19:11	1
Toluene	**0.53**		0.20	0.050	ug/L			01/31/20 19:11	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			01/31/20 19:11	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			01/31/20 19:11	1
Trichloroethene	ND		0.20	0.066	ug/L			01/31/20 19:11	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			01/31/20 19:11	1
Vinyl chloride	ND		0.020	0.013	ug/L			01/31/20 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*01/31/20 19:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*01/31/20 19:11*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*01/31/20 19:11*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*01/31/20 19:11*	*1*
Trifluorotoluene (Surr)	*92*		*80 - 120*		*01/31/20 19:11*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**100**	**H4**	3.0	0.72	ug/L			02/12/20 17:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*02/12/20 17:52*	*10*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*02/12/20 17:52*	*10*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*02/12/20 17:52*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/12/20 17:52*	*10*
Trifluorotoluene (Surr)	*88*		*80 - 120*		*02/12/20 17:52*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**1.7**		0.25	0.10	mg/L			02/03/20 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*50 - 150*		*02/03/20 23:37*	*1*
Trifluorotoluene (Surr)	*114*		*50 - 150*		*02/03/20 23:37*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.024	0.0060	ug/L		02/10/20 12:22	02/26/20 13:32	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.1	0.49	ug/L		02/04/20 15:10	02/18/20 19:28	1
2,4-D	**6.6**		4.3	0.57	ug/L		02/04/20 15:10	02/18/20 19:28	1
2,4-DB	ND		4.3	0.81	ug/L		02/04/20 15:10	02/18/20 19:28	1
Dalapon	**1.8**	**J**	2.2	0.99	ug/L		02/04/20 15:10	02/18/20 19:28	1
Dicamba	**4.5**		2.2	0.47	ug/L		02/04/20 15:10	02/18/20 19:28	1
Dichlorprop	ND		4.3	0.70	ug/L		02/04/20 15:10	02/18/20 19:28	1
Dinoseb	ND		1.1	0.49	ug/L		02/04/20 15:10	02/18/20 19:28	1
MCPA	ND		430	51	ug/L		02/04/20 15:10	02/18/20 19:28	1

Client Sample ID: BH-08-W-8
Date Collected: 01/29/20 08:46
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-14
Matrix: Water

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MCPP	ND		430	36	ug/L		02/04/20 15:10	02/18/20 19:28	1
Picloram	ND		0.54	0.26	ug/L		02/04/20 15:10	02/18/20 19:28	1
Silvex (2,4,5-TP)	ND		1.1	0.18	ug/L		02/04/20 15:10	02/18/20 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*39 - 135*	*02/04/20 15:10*	*02/18/20 19:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.90**		0.11	0.067	mg/L		02/03/20 16:06	02/05/20 01:21	1
Motor Oil (>C24-C36)	**0.26**	**J**	0.36	0.098	mg/L		02/03/20 16:06	02/05/20 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*02/03/20 16:06*	*02/05/20 01:21*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.095**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 13:25	5
Barium	**0.12**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 13:25	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 13:25	5
Chromium	**0.0018**	**J**	0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 13:25	5
Lead	**0.0052**		0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 13:25	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 13:25	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 13:25	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:49	02/04/20 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**	**B**	9.0	1.4	mg/L			02/03/20 20:33	10
Sulfate	**370**		12	2.6	mg/L			02/03/20 20:33	10
Ammonia as N	**0.26**	**J**	0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**19**		1.5	0.60	mg/L			02/15/20 18:22	10

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-09-W-8
Date Collected: 01/29/20 07:57
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 22:48	1
1,1,1-Trichloroethane	**0.053**	**J**	0.20	0.025	ug/L			02/03/20 22:48	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 22:48	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 22:48	1
1,1-Dichloroethane	**1.7**		0.20	0.025	ug/L			02/03/20 22:48	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 22:48	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 22:48	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 22:48	1
1,2,3-Trichloropropane	**11**		0.20	0.050	ug/L			02/03/20 22:48	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/03/20 22:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 22:48	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 22:48	1
1,2-Dichloropropane	**80**		0.20	0.060	ug/L			02/03/20 22:48	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 22:48	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/03/20 22:48	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 22:48	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 22:48	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 22:48	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 22:48	1
4-Isopropyltoluene	**8.4**	**B**	0.30	0.050	ug/L			02/03/20 22:48	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 22:48	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 22:48	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 22:48	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 22:48	1
Chlorobenzene	**0.29**		0.20	0.025	ug/L			02/03/20 22:48	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 22:48	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 22:48	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 22:48	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 22:48	1
Chloromethane	**0.51**		0.50	0.15	ug/L			02/03/20 22:48	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 22:48	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 22:48	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 22:48	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 22:48	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 22:48	1
Ethylbenzene	**17**		0.20	0.030	ug/L			02/03/20 22:48	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 22:48	1
Isopropylbenzene	**84**	**B**	1.0	0.19	ug/L			02/03/20 22:48	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 22:48	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 22:48	1
sec-Butylbenzene	**10**		1.0	0.17	ug/L			02/03/20 22:48	1
Styrene	**11**		0.50	0.19	ug/L			02/03/20 22:48	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/03/20 22:48	1
Tetrachloroethene	**0.31**	**J**	0.50	0.084	ug/L			02/03/20 22:48	1
Toluene	**18**		0.20	0.050	ug/L			02/03/20 22:48	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 22:48	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 22:48	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 22:48	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 22:48	1

Client Sample ID: BH-09-W-8

Date Collected: 01/29/20 07:57
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-15

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*5*	*X*	*80 - 120*		*02/03/20 22:48*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*02/03/20 22:48*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*02/03/20 22:48*	*1*
Toluene-d8 (Surr)	*123*	*X*	*80 - 120*		*02/03/20 22:48*	*1*
Trifluorotoluene (Surr)	*95*		*80 - 120*		*02/03/20 22:48*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	**310**	**H4**	2.0	0.43	ug/L			02/05/20 21:45	10
1,3,5-Trimethylbenzene	**520**	**H4**	5.0	1.5	ug/L			02/05/20 21:45	10
m-Xylene & p-Xylene	**710**	**H4**	5.0	1.2	ug/L			02/05/20 21:45	10
Naphthalene	**790**	**H4 B**	10	2.2	ug/L			02/05/20 21:45	10
n-Butylbenzene	**180**	**H4 B**	5.0	0.80	ug/L			02/05/20 21:45	10
N-Propylbenzene	**75**	**H4**	3.0	0.91	ug/L			02/05/20 21:45	10
o-Xylene	**410**	**H4 B**	5.0	1.5	ug/L			02/05/20 21:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*76*	*X*	*80 - 120*		*02/05/20 21:45*	*10*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*02/05/20 21:45*	*10*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*02/05/20 21:45*	*10*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/05/20 21:45*	*10*
Trifluorotoluene (Surr)	*98*		*80 - 120*		*02/05/20 21:45*	*10*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**1100**	**H4 B**	15	3.6	ug/L			02/05/20 20:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*02/05/20 20:53*	*50*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*02/05/20 20:53*	*50*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*02/05/20 20:53*	*50*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/05/20 20:53*	*50*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*02/05/20 20:53*	*50*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6100**	**H4**	20	3.0	ug/L			02/05/20 20:00	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*02/05/20 20:00*	*100*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/05/20 20:00*	*100*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*02/05/20 20:00*	*100*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/05/20 20:00*	*100*
Trifluorotoluene (Surr)	*96*		*80 - 120*		*02/05/20 20:00*	*100*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**16**		0.25	0.10	mg/L			02/04/20 00:01	1

Client Sample ID: BH-09-W-8

Date Collected: 01/29/20 07:57
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-15

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*183*	*X*	*50 - 150*		*02/04/20 00:01*	*1*
Trifluorotoluene (Surr)	*180*	*X*	*50 - 150*		*02/04/20 00:01*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0057	ug/L		02/07/20 11:23	02/25/20 17:09	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		11	5.0	ug/L		02/04/20 15:10	02/25/20 14:00	10
2,4-D	**150**		44	5.8	ug/L		02/04/20 15:10	02/25/20 14:00	10
2,4-DB	ND		44	8.3	ug/L		02/04/20 15:10	02/25/20 14:00	10
Dalapon	ND		22	10	ug/L		02/04/20 15:10	02/25/20 14:00	10
Dicamba	**27**		22	4.8	ug/L		02/04/20 15:10	02/25/20 14:00	10
Dichlorprop	ND		44	7.2	ug/L		02/04/20 15:10	02/25/20 14:00	10
Dinoseb	ND		11	5.0	ug/L		02/04/20 15:10	02/25/20 14:00	10
MCPA	**960**	**J p**	4400	530	ug/L		02/04/20 15:10	02/25/20 14:00	10
MCPP	**2300**	**J p**	4400	360	ug/L		02/04/20 15:10	02/25/20 14:00	10
Picloram	ND		5.5	2.7	ug/L		02/04/20 15:10	02/25/20 14:00	10
Silvex (2,4,5-TP)	ND		11	1.9	ug/L		02/04/20 15:10	02/25/20 14:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*89*	*D*	*39 - 135*	*02/04/20 15:10*	*02/25/20 14:00*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**19**		0.13	0.077	mg/L		02/03/20 16:06	02/05/20 01:42	1
Motor Oil (>C24-C36)	**0.49**		0.41	0.11	mg/L		02/03/20 16:06	02/05/20 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*02/03/20 16:06*	*02/05/20 01:42*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.030**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 13:27	5
Barium	**0.038**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 13:27	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 13:27	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 13:27	5
Lead	**0.0079**		0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 13:27	5
Selenium	**0.013**	**J**	0.040	0.010	mg/L		02/04/20 07:55	02/04/20 13:27	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 13:27	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:49	02/04/20 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**890**	**B**	90	14	mg/L			02/03/20 20:44	100
Sulfate	**870**		120	26	mg/L			02/03/20 20:44	100
Ammonia as N	**63**		5.0	2.6	mg/L		02/03/20 18:41	02/03/20 18:43	10
Nitrate Nitrite as N	**140**	**F1**	15	6.0	mg/L			02/15/20 18:23	100

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-10-W-8
Date Collected: 01/28/20 17:00
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-16
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 21:55	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 21:55	1
1,1,2,2-Tetrachloroethane	**0.77**		0.20	0.056	ug/L			02/03/20 21:55	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 21:55	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 21:55	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 21:55	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 21:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 21:55	1
1,2,3-Trichloropropane	**11**		0.20	0.050	ug/L			02/03/20 21:55	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/03/20 21:55	1
1,2,4-Trimethylbenzene	**220**	**E B**	0.30	0.072	ug/L			02/03/20 21:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 21:55	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 21:55	1
1,2-Dichloroethane	**24**		0.20	0.043	ug/L			02/03/20 21:55	1
1,2-Dichloropropane	**31**		0.20	0.060	ug/L			02/03/20 21:55	1
1,3,5-Trimethylbenzene	**180**	**E**	0.50	0.15	ug/L			02/03/20 21:55	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 21:55	1
1,3-Dichloropropane	**0.10**	**J**	0.20	0.056	ug/L			02/03/20 21:55	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 21:55	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 21:55	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 21:55	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 21:55	1
4-Isopropyltoluene	**6.3**	**B**	0.30	0.050	ug/L			02/03/20 21:55	1
Benzene	**420**	**E**	0.20	0.030	ug/L			02/03/20 21:55	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 21:55	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 21:55	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 21:55	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 21:55	1
Chlorobenzene	**0.59**		0.20	0.025	ug/L			02/03/20 21:55	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 21:55	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 21:55	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 21:55	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 21:55	1
Chloromethane	**0.21**	**J**	0.50	0.15	ug/L			02/03/20 21:55	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 21:55	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 21:55	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 21:55	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 21:55	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 21:55	1
Ethylbenzene	**0.73**		0.20	0.030	ug/L			02/03/20 21:55	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 21:55	1
Isopropylbenzene	**87**	**B**	1.0	0.19	ug/L			02/03/20 21:55	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 21:55	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 21:55	1
m-Xylene & p-Xylene	**310**	**E**	0.50	0.12	ug/L			02/03/20 21:55	1
Naphthalene	**330**	**E B**	1.0	0.22	ug/L			02/03/20 21:55	1
n-Butylbenzene	**150**	**E B**	0.50	0.080	ug/L			02/03/20 21:55	1
N-Propylbenzene	**96**	**E**	0.30	0.091	ug/L			02/03/20 21:55	1
sec-Butylbenzene	**8.8**		1.0	0.17	ug/L			02/03/20 21:55	1

Client Sample ID: BH-10-W-8

Date Collected: 01/28/20 17:00
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-16

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	**9.5**		0.50	0.19	ug/L			02/03/20 21:55	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/03/20 21:55	1
Tetrachloroethene	**2.9**		0.50	0.084	ug/L			02/03/20 21:55	1
Toluene	**3.6**		0.20	0.050	ug/L			02/03/20 21:55	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 21:55	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 21:55	1
Trichloroethene	**0.24**		0.20	0.066	ug/L			02/03/20 21:55	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 21:55	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*51*	*X*	*80 - 120*		*02/03/20 21:55*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/03/20 21:55*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*02/03/20 21:55*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*		*02/03/20 21:55*	*1*
Trifluorotoluene (Surr)	*82*		*80 - 120*		*02/03/20 21:55*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	**190**	**H4**	5.0	1.5	ug/L			02/05/20 21:19	10
m-Xylene & p-Xylene	**850**	**H4**	5.0	1.2	ug/L			02/05/20 21:19	10
Naphthalene	**420**	**H4 B**	10	2.2	ug/L			02/05/20 21:19	10
n-Butylbenzene	**62**	**H4 B**	5.0	0.80	ug/L			02/05/20 21:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*02/05/20 21:19*	*10*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*02/05/20 21:19*	*10*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*02/05/20 21:19*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/05/20 21:19*	*10*
Trifluorotoluene (Surr)	*100*		*80 - 120*		*02/05/20 21:19*	*10*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**670**	**H4 B**	15	3.6	ug/L			02/05/20 20:26	50
Benzene	**1800**	**H4**	10	1.5	ug/L			02/05/20 20:26	50
N-Propylbenzene	**39**	**H4**	15	4.6	ug/L			02/05/20 20:26	50
o-Xylene	**1400**	**H4 B**	25	7.4	ug/L			02/05/20 20:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*02/05/20 20:26*	*50*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/05/20 20:26*	*50*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*02/05/20 20:26*	*50*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/05/20 20:26*	*50*
Trifluorotoluene (Surr)	*100*		*80 - 120*		*02/05/20 20:26*	*50*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**13**		0.25	0.10	mg/L			02/04/20 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*		*50 - 150*		*02/04/20 00:26*	*1*

Client Sample ID: BH-10-W-8
Lab Sample ID: 580-92451-16

Date Collected: 01/28/20 17:00
Matrix: Water
Date Received: 01/31/20 08:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*94*		*50 - 150*		*02/04/20 00:26*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.15**		0.023	0.0057	ug/L		02/10/20 12:22	02/26/20 13:48	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		12	5.3	ug/L		02/03/20 13:50	02/12/20 22:07	10
2,4-D	ND		47	6.1	ug/L		02/03/20 13:50	02/12/20 22:07	10
2,4-DB	ND		47	8.7	ug/L		02/03/20 13:50	02/12/20 22:07	10
Dalapon	ND		23	11	ug/L		02/03/20 13:50	02/12/20 22:07	10
Dicamba	ND		23	5.1	ug/L		02/03/20 13:50	02/12/20 22:07	10
Dichlorprop	ND		47	7.6	ug/L		02/03/20 13:50	02/12/20 22:07	10
Dinoseb	ND		12	5.2	ug/L		02/03/20 13:50	02/12/20 22:07	10
MCPA	**1100**	**J p**	4700	550	ug/L		02/03/20 13:50	02/12/20 22:07	10
MCPP	ND		4700	380	ug/L		02/03/20 13:50	02/12/20 22:07	10
Picloram	ND		5.8	2.8	ug/L		02/03/20 13:50	02/12/20 22:07	10
Silvex (2,4,5-TP)	ND		12	2.0	ug/L		02/03/20 13:50	02/12/20 22:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*53*	*D*	*39 - 135*	*02/03/20 13:50*	*02/12/20 22:07*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**7.2**		0.12	0.071	mg/L		02/04/20 11:26	02/05/20 15:13	1
Motor Oil (>C24-C36)	**0.32**	**J**	0.38	0.10	mg/L		02/04/20 11:26	02/05/20 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*02/04/20 11:26*	*02/05/20 15:13*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.042**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 13:30	5
Barium	**0.18**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 13:30	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 13:30	5
Chromium	**0.0013**	**J**	0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 13:30	5
Lead	**0.0073**		0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 13:30	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 13:30	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 13:30	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:49	02/04/20 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**	**B**	90	14	mg/L			02/03/20 20:56	100
Sulfate	**1600**		120	26	mg/L			02/03/20 20:56	100
Ammonia as N	**610**		50	26	mg/L		02/03/20 18:41	02/03/20 18:43	100
Nitrate Nitrite as N	**820**		75	30	mg/L			02/15/20 18:27	500

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-11-W-8
Date Collected: 01/28/20 15:45
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-17
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			01/31/20 19:37	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			01/31/20 19:37	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			01/31/20 19:37	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			01/31/20 19:37	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			01/31/20 19:37	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			01/31/20 19:37	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			01/31/20 19:37	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			01/31/20 19:37	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			01/31/20 19:37	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			01/31/20 19:37	1
1,2,4-Trimethylbenzene	**180**	**E B**	0.30	0.072	ug/L			01/31/20 19:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			01/31/20 19:37	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 19:37	1
1,2-Dichloroethane	**110**	**E**	0.20	0.043	ug/L			01/31/20 19:37	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			01/31/20 19:37	1
1,3,5-Trimethylbenzene	**140**	**E**	0.50	0.15	ug/L			01/31/20 19:37	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 19:37	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			01/31/20 19:37	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 19:37	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			01/31/20 19:37	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			01/31/20 19:37	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			01/31/20 19:37	1
4-Isopropyltoluene	**8.2**	**B**	0.30	0.050	ug/L			01/31/20 19:37	1
Benzene	**280**	**E**	0.20	0.030	ug/L			01/31/20 19:37	1
Bromobenzene	ND		0.20	0.035	ug/L			01/31/20 19:37	1
Bromoform	ND		0.50	0.16	ug/L			01/31/20 19:37	1
Bromomethane	ND		0.50	0.16	ug/L			01/31/20 19:37	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			01/31/20 19:37	1
Chlorobenzene	ND		0.20	0.025	ug/L			01/31/20 19:37	1
Chlorobromomethane	ND		0.20	0.025	ug/L			01/31/20 19:37	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			01/31/20 19:37	1
Chloroethane	ND		0.50	0.096	ug/L			01/31/20 19:37	1
Chloroform	ND		0.20	0.030	ug/L			01/31/20 19:37	1
Chloromethane	**1.0**		0.50	0.15	ug/L			01/31/20 19:37	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			01/31/20 19:37	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			01/31/20 19:37	1
Dibromomethane	ND		0.20	0.062	ug/L			01/31/20 19:37	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			01/31/20 19:37	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			01/31/20 19:37	1
Ethylbenzene	**140**	**E**	0.20	0.030	ug/L			01/31/20 19:37	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			01/31/20 19:37	1
Isopropylbenzene	**46**	**B**	1.0	0.19	ug/L			01/31/20 19:37	1
Methyl tert-butyl ether	**0.17**	**J**	0.30	0.070	ug/L			01/31/20 19:37	1
Methylene Chloride	ND		5.0	0.74	ug/L			01/31/20 19:37	1
m-Xylene & p-Xylene	**210**	**E**	0.50	0.12	ug/L			01/31/20 19:37	1
Naphthalene	**190**	**E B**	1.0	0.22	ug/L			01/31/20 19:37	1
n-Butylbenzene	**160**	**E B**	0.50	0.080	ug/L			01/31/20 19:37	1
N-Propylbenzene	**90**	**E**	0.30	0.091	ug/L			01/31/20 19:37	1
o-Xylene	**4.0**	**B**	0.50	0.15	ug/L			01/31/20 19:37	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-11-W-8
Date Collected: 01/28/20 15:45
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-17
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	9.3		1.0	0.17	ug/L			01/31/20 19:37	1
Styrene	0.81		0.50	0.19	ug/L			01/31/20 19:37	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			01/31/20 19:37	1
Tetrachloroethene	0.17	J	0.50	0.084	ug/L			01/31/20 19:37	1
Toluene	3.0		0.20	0.050	ug/L			01/31/20 19:37	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			01/31/20 19:37	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			01/31/20 19:37	1
Trichloroethene	ND		0.20	0.066	ug/L			01/31/20 19:37	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			01/31/20 19:37	1
Vinyl chloride	ND		0.020	0.013	ug/L			01/31/20 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*48*	*X*	*80 - 120*		*01/31/20 19:37*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/31/20 19:37*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*01/31/20 19:37*	*1*
Toluene-d8 (Surr)	*123*	*X*	*80 - 120*		*01/31/20 19:37*	*1*
Trifluorotoluene (Surr)	*91*		*80 - 120*		*01/31/20 19:37*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	110	H4	2.0	0.43	ug/L			02/05/20 19:06	10
1,3,5-Trimethylbenzene	390	H4	5.0	1.5	ug/L			02/05/20 19:06	10
Benzene	980	H4	2.0	0.30	ug/L			02/05/20 19:06	10
Ethylbenzene	380	H4	2.0	0.30	ug/L			02/05/20 19:06	10
m-Xylene & p-Xylene	980	H4	5.0	1.2	ug/L			02/05/20 19:06	10
Naphthalene	250	H4 B	10	2.2	ug/L			02/05/20 19:06	10
n-Butylbenzene	220	H4 B	5.0	0.80	ug/L			02/05/20 19:06	10
N-Propylbenzene	150	H4	3.0	0.91	ug/L			02/05/20 19:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*02/05/20 19:06*	*10*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*02/05/20 19:06*	*10*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*02/05/20 19:06*	*10*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/05/20 19:06*	*10*
Trifluorotoluene (Surr)	*99*		*80 - 120*		*02/05/20 19:06*	*10*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1300	H4 B	15	3.6	ug/L			02/05/20 18:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*02/05/20 18:14*	*50*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*02/05/20 18:14*	*50*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*02/05/20 18:14*	*50*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/05/20 18:14*	*50*
Trifluorotoluene (Surr)	*98*		*80 - 120*		*02/05/20 18:14*	*50*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	16		0.25	0.10	mg/L			02/04/20 02:26	1

Client Sample ID: BH-11-W-8

Date Collected: 01/28/20 15:45
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-17

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*162*	*X*	*50 - 150*		*02/04/20 02:26*	*1*
Trifluorotoluene (Surr)	*200*	*X*	*50 - 150*		*02/04/20 02:26*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.024	0.0061	ug/L		02/07/20 11:23	02/25/20 17:42	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		110	50	ug/L		02/03/20 13:50	02/11/20 00:22	100
2,4-D	**170**	**J**	440	58	ug/L		02/03/20 13:50	02/11/20 00:22	100
2,4-DB	ND		440	83	ug/L		02/03/20 13:50	02/11/20 00:22	100
Dalapon	ND		220	100	ug/L		02/03/20 13:50	02/11/20 00:22	100
Dicamba	ND		220	48	ug/L		02/03/20 13:50	02/11/20 00:22	100
Dichlorprop	ND		440	72	ug/L		02/03/20 13:50	02/11/20 00:22	100
Dinoseb	ND		110	50	ug/L		02/03/20 13:50	02/11/20 00:22	100
MCPA	ND		44000	5300	ug/L		02/03/20 13:50	02/11/20 00:22	100
MCPP	ND		44000	3700	ug/L		02/03/20 13:50	02/11/20 00:22	100
Picloram	**28**	**J p**	55	27	ug/L		02/03/20 13:50	02/11/20 00:22	100
Silvex (2,4,5-TP)	ND		110	19	ug/L		02/03/20 13:50	02/11/20 00:22	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*0*	*X D*	*39 - 135*	*02/03/20 13:50*	*02/11/20 00:22*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**5.4**		0.13	0.078	mg/L		02/04/20 11:26	02/05/20 15:35	1
Motor Oil (>C24-C36)	**0.46**		0.42	0.11	mg/L		02/04/20 11:26	02/05/20 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*02/04/20 11:26*	*02/05/20 15:35*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.12**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 13:33	5
Barium	**0.28**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 13:33	5
Cadmium	**0.0010**	**J**	0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 13:33	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 13:33	5
Lead	**0.0021**	**J**	0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 13:33	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 13:33	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 13:33	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:49	02/04/20 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**	**B**	9.0	1.4	mg/L			02/03/20 21:19	10
Sulfate	**190**		12	2.6	mg/L			02/03/20 21:19	10
Ammonia as N	**14**		1.0	0.53	mg/L		02/03/20 18:41	02/03/20 18:43	2
Nitrate Nitrite as N	**0.25**		0.15	0.060	mg/L			02/15/20 18:28	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-12-W-12
Date Collected: 01/28/20 14:25
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-18
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 23:15	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 23:15	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 23:15	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 23:15	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 23:15	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 23:15	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 23:15	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/03/20 23:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 23:15	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 23:15	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/03/20 23:15	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 23:15	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/03/20 23:15	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 23:15	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 23:15	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 23:15	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 23:15	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			02/03/20 23:15	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 23:15	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 23:15	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 23:15	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 23:15	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/03/20 23:15	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 23:15	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 23:15	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 23:15	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 23:15	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 23:15	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 23:15	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 23:15	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 23:15	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 23:15	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 23:15	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 23:15	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 23:15	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/03/20 23:15	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/03/20 23:15	1
Styrene	ND		0.50	0.19	ug/L			02/03/20 23:15	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/03/20 23:15	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 23:15	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 23:15	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 23:15	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 23:15	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*02/03/20 23:15*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*02/03/20 23:15*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*02/03/20 23:15*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/03/20 23:15*	*1*

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-12-W-12
Date Collected: 01/28/20 14:25
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-18
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	*102*		*80 - 120*		*02/03/20 23:15*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/05/20 14:15	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/05/20 14:15	1
1,2,4-Trimethylbenzene	**0.095**	**J B**	0.30	0.072	ug/L			02/05/20 14:15	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			02/05/20 14:15	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/05/20 14:15	1
Benzene	ND		0.20	0.030	ug/L			02/05/20 14:15	1
Chloromethane	**0.40**	**J**	0.50	0.15	ug/L			02/05/20 14:15	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/05/20 14:15	1
Isopropylbenzene	**0.29**	**J B**	1.0	0.19	ug/L			02/05/20 14:15	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/05/20 14:15	1
Naphthalene	**0.35**	**J B**	1.0	0.22	ug/L			02/05/20 14:15	1
n-Butylbenzene	**0.16**	**J B**	0.50	0.080	ug/L			02/05/20 14:15	1
o-Xylene	**0.16**	**J B**	0.50	0.15	ug/L			02/05/20 14:15	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/05/20 14:15	1
Toluene	ND		0.20	0.050	ug/L			02/05/20 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*02/05/20 14:15*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/05/20 14:15*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*02/05/20 14:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/05/20 14:15*	*1*
Trifluorotoluene (Surr)	*109*		*80 - 120*		*02/05/20 14:15*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*106*		*50 - 150*		*02/04/20 02:50*	*1*
Trifluorotoluene (Surr)	*89*		*50 - 150*		*02/04/20 02:50*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0057	ug/L		02/10/20 12:22	02/26/20 14:34	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.47	ug/L		02/03/20 13:50	02/06/20 14:03	1
2,4-D	ND		4.1	0.54	ug/L		02/03/20 13:50	02/06/20 14:03	1
2,4-DB	ND		4.1	0.76	ug/L		02/03/20 13:50	02/06/20 14:03	1
Dalapon	ND		2.0	0.93	ug/L		02/03/20 13:50	02/06/20 14:03	1
Dicamba	ND		2.0	0.45	ug/L		02/03/20 13:50	02/06/20 14:03	1
Dichlorprop	ND		4.1	0.66	ug/L		02/03/20 13:50	02/06/20 14:03	1
Dinoseb	ND	*	1.0	0.46	ug/L		02/03/20 13:50	02/06/20 14:03	1
MCPA	ND		410	49	ug/L		02/03/20 13:50	02/06/20 14:03	1
MCPP	ND		410	34	ug/L		02/03/20 13:50	02/06/20 14:03	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-12-W-12
Date Collected: 01/28/20 14:25
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-18
Matrix: Water

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Picloram	ND		0.51	0.25	ug/L		02/03/20 13:50	02/06/20 14:03	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/03/20 13:50	02/06/20 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*64*		*39 - 135*	*02/03/20 13:50*	*02/06/20 14:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.12	0.069	mg/L		02/04/20 11:26	02/05/20 15:57	1
Motor Oil (>C24-C36)	ND		0.37	0.10	mg/L		02/04/20 11:26	02/05/20 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*02/04/20 11:26*	*02/05/20 15:57*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.063**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 13:36	5
Barium	**0.056**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 13:36	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 13:36	5
Chromium	**0.0017**	**J**	0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 13:36	5
Lead	**0.0012**	**J**	0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 13:36	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 13:36	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 13:36	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:49	02/04/20 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19**	**B**	0.90	0.14	mg/L			02/03/20 21:31	1
Sulfate	**110**		12	2.6	mg/L			02/04/20 09:09	10
Ammonia as N	**0.35**	**J**	0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**2.7**		1.5	0.60	mg/L			02/15/20 18:29	10

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-13-W-8
Date Collected: 01/28/20 12:58
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-19
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 23:41	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 23:41	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 23:41	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 23:41	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 23:41	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 23:41	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 23:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 23:41	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/03/20 23:41	1
1,2,4-Trichlorobenzene	**0.17**	**J B**	0.30	0.072	ug/L			02/03/20 23:41	1
1,2,4-Trimethylbenzene	**0.28**	**J B**	0.30	0.072	ug/L			02/03/20 23:41	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 23:41	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 23:41	1
1,2-Dichloroethane	**0.060**	**J**	0.20	0.043	ug/L			02/03/20 23:41	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/03/20 23:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/03/20 23:41	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 23:41	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/03/20 23:41	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 23:41	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 23:41	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 23:41	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 23:41	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			02/03/20 23:41	1
Benzene	**0.55**		0.20	0.030	ug/L			02/03/20 23:41	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 23:41	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 23:41	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 23:41	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 23:41	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/03/20 23:41	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 23:41	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 23:41	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 23:41	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 23:41	1
Chloromethane	**0.16**	**J**	0.50	0.15	ug/L			02/03/20 23:41	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 23:41	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 23:41	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 23:41	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 23:41	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 23:41	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/03/20 23:41	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 23:41	1
Isopropylbenzene	**0.29**	**J B**	1.0	0.19	ug/L			02/03/20 23:41	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 23:41	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 23:41	1
m-Xylene & p-Xylene	**0.20**	**J**	0.50	0.12	ug/L			02/03/20 23:41	1
Naphthalene	**0.82**	**J B**	1.0	0.22	ug/L			02/03/20 23:41	1
n-Butylbenzene	**0.22**	**J B**	0.50	0.080	ug/L			02/03/20 23:41	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/03/20 23:41	1
o-Xylene	**0.25**	**J B**	0.50	0.15	ug/L			02/03/20 23:41	1

Client Sample ID: BH-13-W-8

Date Collected: 01/28/20 12:58
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-19

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/03/20 23:41	1
Styrene	ND		0.50	0.19	ug/L			02/03/20 23:41	1
tert-Butylbenzene	**0.12**	**J B**	0.50	0.10	ug/L			02/03/20 23:41	1
Toluene	ND		0.20	0.050	ug/L			02/03/20 23:41	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 23:41	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 23:41	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 23:41	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 23:41	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*02/03/20 23:41*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*02/03/20 23:41*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*02/03/20 23:41*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/03/20 23:41*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 120*		*02/03/20 23:41*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H4	0.30	0.072	ug/L			02/05/20 14:42	1
1,2,4-Trimethylbenzene	**0.11**	**J H4 B**	0.30	0.072	ug/L			02/05/20 14:42	1
1,2-Dichloroethane	ND	H4	0.20	0.043	ug/L			02/05/20 14:42	1
Benzene	ND	H4	0.20	0.030	ug/L			02/05/20 14:42	1
m-Xylene & p-Xylene	ND	H4	0.50	0.12	ug/L			02/05/20 14:42	1
Naphthalene	**0.35**	**J H4 B**	1.0	0.22	ug/L			02/05/20 14:42	1
n-Butylbenzene	**0.16**	**J H4 B**	0.50	0.080	ug/L			02/05/20 14:42	1
o-Xylene	**0.16**	**J H4 B**	0.50	0.15	ug/L			02/05/20 14:42	1
tert-Butylbenzene	ND	H4	0.50	0.10	ug/L			02/05/20 14:42	1
Tetrachloroethene	**0.18**	**J H4**	0.50	0.084	ug/L			02/05/20 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*02/05/20 14:42*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/05/20 14:42*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*02/05/20 14:42*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/05/20 14:42*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*02/05/20 14:42*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*50 - 150*		*02/04/20 03:14*	*1*
Trifluorotoluene (Surr)	*88*		*50 - 150*		*02/04/20 03:14*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.024	0.0059	ug/L		02/07/20 11:23	02/25/20 17:58	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-13-W-8

Date Collected: 01/28/20 12:58
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-19

Matrix: Water

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.47	ug/L		02/03/20 13:50	02/06/20 14:30	1
2,4-D	ND		4.1	0.54	ug/L		02/03/20 13:50	02/06/20 14:30	1
2,4-DB	ND		4.1	0.77	ug/L		02/03/20 13:50	02/06/20 14:30	1
Dalapon	ND		2.1	0.94	ug/L		02/03/20 13:50	02/06/20 14:30	1
Dicamba	ND		2.1	0.45	ug/L		02/03/20 13:50	02/06/20 14:30	1
Dichlorprop	ND		4.1	0.67	ug/L		02/03/20 13:50	02/06/20 14:30	1
Dinoseb	ND	*	1.0	0.46	ug/L		02/03/20 13:50	02/06/20 14:30	1
MCPA	ND		410	49	ug/L		02/03/20 13:50	02/06/20 14:30	1
MCPP	ND		410	34	ug/L		02/03/20 13:50	02/06/20 14:30	1
Picloram	ND		0.51	0.25	ug/L		02/03/20 13:50	02/06/20 14:30	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/03/20 13:50	02/06/20 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*41*		*39 - 135*	*02/03/20 13:50*	*02/06/20 14:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.12	0.072	mg/L		02/04/20 11:26	02/05/20 16:19	1
Motor Oil (>C24-C36)	ND		0.39	0.11	mg/L		02/04/20 11:26	02/05/20 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*02/04/20 11:26*	*02/05/20 16:19*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.061**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 13:38	5
Barium	**0.060**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 13:38	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 13:38	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 13:38	5
Lead	**0.0019**	**J**	0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 13:38	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 13:38	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 13:38	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:49	02/04/20 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**	**B**	9.0	1.4	mg/L			02/03/20 22:18	10
Sulfate	**270**		12	2.6	mg/L			02/03/20 22:18	10
Ammonia as N	**0.30**	**J**	0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**14**		1.5	0.60	mg/L			02/15/20 18:30	10

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-14-W-8
Date Collected: 01/28/20 12:07
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-20
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/04/20 00:07	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/04/20 00:07	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/04/20 00:07	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/04/20 00:07	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/04/20 00:07	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/04/20 00:07	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/04/20 00:07	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/04/20 00:07	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/04/20 00:07	1
1,2,4-Trichlorobenzene	**0.16**	**J B**	0.30	0.072	ug/L			02/04/20 00:07	1
1,2,4-Trimethylbenzene	**0.20**	**J B**	0.30	0.072	ug/L			02/04/20 00:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/04/20 00:07	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 00:07	1
1,2-Dichloroethane	**0.046**	**J**	0.20	0.043	ug/L			02/04/20 00:07	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/04/20 00:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/04/20 00:07	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 00:07	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/04/20 00:07	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 00:07	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/04/20 00:07	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/04/20 00:07	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/04/20 00:07	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			02/04/20 00:07	1
Benzene	**0.33**		0.20	0.030	ug/L			02/04/20 00:07	1
Bromobenzene	ND		0.20	0.035	ug/L			02/04/20 00:07	1
Bromoform	ND		0.50	0.16	ug/L			02/04/20 00:07	1
Bromomethane	ND		0.50	0.16	ug/L			02/04/20 00:07	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/04/20 00:07	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/04/20 00:07	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/04/20 00:07	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/04/20 00:07	1
Chloroethane	ND		0.50	0.096	ug/L			02/04/20 00:07	1
Chloroform	ND		0.20	0.030	ug/L			02/04/20 00:07	1
Chloromethane	**0.18**	**J**	0.50	0.15	ug/L			02/04/20 00:07	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/04/20 00:07	1
cis-1,3-Dichloropropene	**0.15**	**J B**	0.20	0.090	ug/L			02/04/20 00:07	1
Dibromomethane	ND		0.20	0.062	ug/L			02/04/20 00:07	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/04/20 00:07	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/04/20 00:07	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/04/20 00:07	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/04/20 00:07	1
Isopropylbenzene	**0.29**	**J B**	1.0	0.19	ug/L			02/04/20 00:07	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/04/20 00:07	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/04/20 00:07	1
m-Xylene & p-Xylene	**0.14**	**J**	0.50	0.12	ug/L			02/04/20 00:07	1
Naphthalene	**0.55**	**J B**	1.0	0.22	ug/L			02/04/20 00:07	1
n-Butylbenzene	**0.18**	**J B**	0.50	0.080	ug/L			02/04/20 00:07	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/04/20 00:07	1
o-Xylene	**0.22**	**J B**	0.50	0.15	ug/L			02/04/20 00:07	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-14-W-8
Date Collected: 01/28/20 12:07
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-20
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/04/20 00:07	1
Styrene	ND		0.50	0.19	ug/L			02/04/20 00:07	1
tert-Butylbenzene	**0.12**	**J B**	0.50	0.10	ug/L			02/04/20 00:07	1
Tetrachloroethene	**0.11**	**J**	0.50	0.084	ug/L			02/04/20 00:07	1
Toluene	ND		0.20	0.050	ug/L			02/04/20 00:07	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/04/20 00:07	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/04/20 00:07	1
Trichloroethene	ND		0.20	0.066	ug/L			02/04/20 00:07	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/04/20 00:07	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/04/20 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*02/04/20 00:07*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*02/04/20 00:07*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*02/04/20 00:07*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/04/20 00:07*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*02/04/20 00:07*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**0.10**	**J B**	0.30	0.072	ug/L			02/05/20 15:08	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			02/05/20 15:08	1
Benzene	ND		0.20	0.030	ug/L			02/05/20 15:08	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/05/20 15:08	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/05/20 15:08	1
Naphthalene	**0.35**	**J B**	1.0	0.22	ug/L			02/05/20 15:08	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/05/20 15:08	1
o-Xylene	**0.16**	**J B**	0.50	0.15	ug/L			02/05/20 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*80 - 120*		*02/05/20 15:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/05/20 15:08*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*02/05/20 15:08*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/05/20 15:08*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*02/05/20 15:08*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*50 - 150*		*02/04/20 03:38*	*1*
Trifluorotoluene (Surr)	*87*		*50 - 150*		*02/04/20 03:38*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0058	ug/L		02/07/20 11:23	02/25/20 18:14	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.2	0.54	ug/L		02/03/20 13:50	02/06/20 14:57	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-14-W-8
Date Collected: 01/28/20 12:07
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-20
Matrix: Water

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		4.8	0.63	ug/L		02/03/20 13:50	02/06/20 14:57	1
2,4-DB	ND		4.8	0.89	ug/L		02/03/20 13:50	02/06/20 14:57	1
Dalapon	ND		2.4	1.1	ug/L		02/03/20 13:50	02/06/20 14:57	1
Dicamba	ND		2.4	0.52	ug/L		02/03/20 13:50	02/06/20 14:57	1
Dichlorprop	ND		4.8	0.78	ug/L		02/03/20 13:50	02/06/20 14:57	1
Dinoseb	ND	*	1.2	0.54	ug/L		02/03/20 13:50	02/06/20 14:57	1
MCPA	ND		480	57	ug/L		02/03/20 13:50	02/06/20 14:57	1
MCPP	ND		480	39	ug/L		02/03/20 13:50	02/06/20 14:57	1
Picloram	ND		0.60	0.29	ug/L		02/03/20 13:50	02/06/20 14:57	1
Silvex (2,4,5-TP)	ND		1.2	0.20	ug/L		02/03/20 13:50	02/06/20 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*46*		*39 - 135*	*02/03/20 13:50*	*02/06/20 14:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.13	0.074	mg/L		02/04/20 11:26	02/05/20 16:40	1
Motor Oil (>C24-C36)	ND		0.40	0.11	mg/L		02/04/20 11:26	02/05/20 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*02/04/20 11:26*	*02/05/20 16:40*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.071**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 13:41	5
Barium	**0.047**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 13:41	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 13:41	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 13:41	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 13:41	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 13:41	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 13:41	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:49	02/04/20 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27**	**B**	0.90	0.14	mg/L			02/03/20 22:53	1
Sulfate	**110**		12	2.6	mg/L			02/04/20 09:20	10
Ammonia as N	**0.32**	**J**	0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1
Nitrate Nitrite as N	**2.0**		1.5	0.60	mg/L			02/15/20 18:34	10

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-15-W-8
Date Collected: 01/28/20 10:51
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-21
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 21:29	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 21:29	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 21:29	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 21:29	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 21:29	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 21:29	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 21:29	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 21:29	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/03/20 21:29	1
1,2,4-Trichlorobenzene	**0.16**	**J B**	0.30	0.072	ug/L			02/03/20 21:29	1
1,2,4-Trimethylbenzene	**0.14**	**J B**	0.30	0.072	ug/L			02/03/20 21:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 21:29	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 21:29	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			02/03/20 21:29	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/03/20 21:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/03/20 21:29	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 21:29	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/03/20 21:29	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 21:29	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 21:29	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 21:29	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 21:29	1
4-Isopropyltoluene	**0.15**	**J B**	0.30	0.050	ug/L			02/03/20 21:29	1
Benzene	**0.052**	**J**	0.20	0.030	ug/L			02/03/20 21:29	1
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 21:29	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 21:29	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 21:29	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 21:29	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/03/20 21:29	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 21:29	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 21:29	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 21:29	1
Chloroform	**0.049**	**J**	0.20	0.030	ug/L			02/03/20 21:29	1
Chloromethane	ND		0.50	0.15	ug/L			02/03/20 21:29	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 21:29	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/03/20 21:29	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 21:29	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 21:29	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 21:29	1
Ethylbenzene	**0.050**	**J**	0.20	0.030	ug/L			02/03/20 21:29	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 21:29	1
Isopropylbenzene	**0.29**	**J B**	1.0	0.19	ug/L			02/03/20 21:29	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 21:29	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 21:29	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/03/20 21:29	1
Naphthalene	**0.38**	**J B**	1.0	0.22	ug/L			02/03/20 21:29	1
n-Butylbenzene	**0.16**	**J B**	0.50	0.080	ug/L			02/03/20 21:29	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/03/20 21:29	1
o-Xylene	**0.18**	**J B**	0.50	0.15	ug/L			02/03/20 21:29	1

Client Sample ID: BH-15-W-8
Date Collected: 01/28/20 10:51
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-21
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/03/20 21:29	1
Styrene	ND		0.50	0.19	ug/L			02/03/20 21:29	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/03/20 21:29	1
Tetrachloroethene	**0.27**	**J**	0.50	0.084	ug/L			02/03/20 21:29	1
Toluene	**0.091**	**J**	0.20	0.050	ug/L			02/03/20 21:29	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 21:29	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 21:29	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 21:29	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 21:29	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*02/03/20 21:29*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/03/20 21:29*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*02/03/20 21:29*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/03/20 21:29*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*02/03/20 21:29*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*50 - 150*		*02/04/20 04:02*	*1*
Trifluorotoluene (Surr)	*89*		*50 - 150*		*02/04/20 04:02*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0056	ug/L		02/07/20 11:23	02/25/20 18:30	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.2	0.54	ug/L		02/03/20 13:50	02/06/20 15:23	1
2,4-D	ND		4.8	0.63	ug/L		02/03/20 13:50	02/06/20 15:23	1
2,4-DB	ND		4.8	0.89	ug/L		02/03/20 13:50	02/06/20 15:23	1
Dalapon	ND		2.4	1.1	ug/L		02/03/20 13:50	02/06/20 15:23	1
Dicamba	ND		2.4	0.52	ug/L		02/03/20 13:50	02/06/20 15:23	1
Dichlorprop	ND		4.8	0.78	ug/L		02/03/20 13:50	02/06/20 15:23	1
Dinoseb	ND	*	1.2	0.54	ug/L		02/03/20 13:50	02/06/20 15:23	1
MCPA	**61**	**J**	480	57	ug/L		02/03/20 13:50	02/06/20 15:23	1
MCPP	ND		480	39	ug/L		02/03/20 13:50	02/06/20 15:23	1
Picloram	ND		0.60	0.29	ug/L		02/03/20 13:50	02/06/20 15:23	1
Silvex (2,4,5-TP)	ND		1.2	0.20	ug/L		02/03/20 13:50	02/06/20 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*67*		*39 - 135*	*02/03/20 13:50*	*02/06/20 15:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.076**	**J**	0.12	0.074	mg/L		02/04/20 11:26	02/05/20 17:02	1
Motor Oil (>C24-C36)	ND		0.40	0.11	mg/L		02/04/20 11:26	02/05/20 17:02	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-15-W-8

Date Collected: 01/28/20 10:51
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-21

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*59*		*50 - 150*	*02/04/20 11:26*	*02/05/20 17:02*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.013**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 13:44	5
Barium	**0.27**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 13:44	5
Cadmium	**0.00071**	**J**	0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 13:44	5
Chromium	**0.0040**		0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 13:44	5
Lead	**0.0089**		0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 13:44	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 13:44	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 13:44	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:49	02/04/20 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88**	**B**	0.90	0.14	mg/L			02/04/20 02:00	1
Sulfate	**200**		12	2.6	mg/L			02/04/20 02:12	10
Ammonia as N	ND		0.50	0.26	mg/L		02/03/20 18:43	02/03/20 18:46	1
Nitrate Nitrite as N	**5.3**		1.5	0.60	mg/L			02/15/20 18:35	10

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-16-W-8
Date Collected: 01/28/20 09:30
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-22
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			01/31/20 20:04	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			01/31/20 20:04	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			01/31/20 20:04	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			01/31/20 20:04	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			01/31/20 20:04	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			01/31/20 20:04	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			01/31/20 20:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			01/31/20 20:04	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			01/31/20 20:04	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			01/31/20 20:04	1
1,2,4-Trimethylbenzene	**160**	**E B**	0.30	0.072	ug/L			01/31/20 20:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			01/31/20 20:04	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 20:04	1
1,2-Dichloroethane	**92**		0.20	0.043	ug/L			01/31/20 20:04	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			01/31/20 20:04	1
1,3,5-Trimethylbenzene	**130**	**E**	0.50	0.15	ug/L			01/31/20 20:04	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 20:04	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			01/31/20 20:04	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 20:04	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			01/31/20 20:04	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			01/31/20 20:04	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			01/31/20 20:04	1
4-Isopropyltoluene	**8.9**	**B**	0.30	0.050	ug/L			01/31/20 20:04	1
Benzene	**240**	**E**	0.20	0.030	ug/L			01/31/20 20:04	1
Bromobenzene	**0.048**	**J**	0.20	0.035	ug/L			01/31/20 20:04	1
Bromoform	ND		0.50	0.16	ug/L			01/31/20 20:04	1
Bromomethane	ND		0.50	0.16	ug/L			01/31/20 20:04	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			01/31/20 20:04	1
Chlorobenzene	ND		0.20	0.025	ug/L			01/31/20 20:04	1
Chlorobromomethane	ND		0.20	0.025	ug/L			01/31/20 20:04	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			01/31/20 20:04	1
Chloroethane	ND		0.50	0.096	ug/L			01/31/20 20:04	1
Chloroform	ND		0.20	0.030	ug/L			01/31/20 20:04	1
Chloromethane	**0.89**		0.50	0.15	ug/L			01/31/20 20:04	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			01/31/20 20:04	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			01/31/20 20:04	1
Dibromomethane	ND		0.20	0.062	ug/L			01/31/20 20:04	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			01/31/20 20:04	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			01/31/20 20:04	1
Ethylbenzene	**120**	**E**	0.20	0.030	ug/L			01/31/20 20:04	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			01/31/20 20:04	1
Isopropylbenzene	**43**	**B**	1.0	0.19	ug/L			01/31/20 20:04	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			01/31/20 20:04	1
Methylene Chloride	ND		5.0	0.74	ug/L			01/31/20 20:04	1
m-Xylene & p-Xylene	**190**	**E**	0.50	0.12	ug/L			01/31/20 20:04	1
Naphthalene	**170**	**E B**	1.0	0.22	ug/L			01/31/20 20:04	1
n-Butylbenzene	**160**	**E B**	0.50	0.080	ug/L			01/31/20 20:04	1
N-Propylbenzene	**85**	**E**	0.30	0.091	ug/L			01/31/20 20:04	1
o-Xylene	**3.6**	**B**	0.50	0.15	ug/L			01/31/20 20:04	1

Client Sample ID: BH-16-W-8
Date Collected: 01/28/20 09:30
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-22
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	10		1.0	0.17	ug/L			01/31/20 20:04	1
Styrene	0.64		0.50	0.19	ug/L			01/31/20 20:04	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			01/31/20 20:04	1
Tetrachloroethene	0.20	J	0.50	0.084	ug/L			01/31/20 20:04	1
Toluene	2.9		0.20	0.050	ug/L			01/31/20 20:04	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			01/31/20 20:04	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			01/31/20 20:04	1
Trichloroethene	ND		0.20	0.066	ug/L			01/31/20 20:04	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			01/31/20 20:04	1
Vinyl chloride	ND		0.020	0.013	ug/L			01/31/20 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*48*	*X*	*80 - 120*		*01/31/20 20:04*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/31/20 20:04*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*01/31/20 20:04*	*1*
Toluene-d8 (Surr)	*124*	*X*	*80 - 120*		*01/31/20 20:04*	*1*
Trifluorotoluene (Surr)	*95*		*80 - 120*		*01/31/20 20:04*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	430	H4	5.0	1.5	ug/L			02/05/20 18:40	10
Ethylbenzene	410	H4	2.0	0.30	ug/L			02/05/20 18:40	10
Naphthalene	250	H4 B	10	2.2	ug/L			02/05/20 18:40	10
N-Propylbenzene	170	H4	3.0	0.91	ug/L			02/05/20 18:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*02/05/20 18:40*	*10*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/05/20 18:40*	*10*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*02/05/20 18:40*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/05/20 18:40*	*10*
Trifluorotoluene (Surr)	*99*		*80 - 120*		*02/05/20 18:40*	*10*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1300	H4 B	15	3.6	ug/L			02/05/20 17:47	50
Benzene	1000	H4	10	1.5	ug/L			02/05/20 17:47	50
m-Xylene & p-Xylene	1100	H4	25	5.8	ug/L			02/05/20 17:47	50
n-Butylbenzene	180	H4 B	25	4.0	ug/L			02/05/20 17:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*02/05/20 17:47*	*50*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*02/05/20 17:47*	*50*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*02/05/20 17:47*	*50*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/05/20 17:47*	*50*
Trifluorotoluene (Surr)	*95*		*80 - 120*		*02/05/20 17:47*	*50*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	16		0.25	0.10	mg/L			02/04/20 04:26	1

Client Sample ID: BH-16-W-8

Date Collected: 01/28/20 09:30
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-22

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*157*	*X*	*50 - 150*		*02/04/20 04:26*	*1*
Trifluorotoluene (Surr)	*198*	*X*	*50 - 150*		*02/04/20 04:26*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.022	0.0056	ug/L		02/07/20 11:23	02/25/20 18:46	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		13	5.9	ug/L		02/03/20 13:50	02/11/20 00:49	10
2,4-D	**160**		52	6.8	ug/L		02/03/20 13:50	02/11/20 00:49	10
2,4-DB	ND		52	9.7	ug/L		02/03/20 13:50	02/11/20 00:49	10
Dalapon	ND		26	12	ug/L		02/03/20 13:50	02/11/20 00:49	10
Dicamba	**16**	**J**	26	5.6	ug/L		02/03/20 13:50	02/11/20 00:49	10
Dichlorprop	ND		52	8.4	ug/L		02/03/20 13:50	02/11/20 00:49	10
Dinoseb	ND		13	5.8	ug/L		02/03/20 13:50	02/11/20 00:49	10
MCPA	ND		5200	620	ug/L		02/03/20 13:50	02/11/20 00:49	10
MCPP	ND		5200	430	ug/L		02/03/20 13:50	02/11/20 00:49	10
Picloram	**3.7**	**J p**	6.5	3.1	ug/L		02/03/20 13:50	02/11/20 00:49	10
Silvex (2,4,5-TP)	ND		13	2.2	ug/L		02/03/20 13:50	02/11/20 00:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*20*	*X D*	*39 - 135*	*02/03/20 13:50*	*02/11/20 00:49*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**7.1**		0.12	0.070	mg/L		02/04/20 11:26	02/05/20 17:24	1
Motor Oil (>C24-C36)	**0.50**		0.38	0.10	mg/L		02/04/20 11:26	02/05/20 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*02/04/20 11:26*	*02/05/20 17:24*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.11**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 13:46	5
Barium	**0.29**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 13:46	5
Cadmium	**0.00084**	**J**	0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 13:46	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 13:46	5
Lead	**0.0022**	**J**	0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 13:46	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 13:46	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 13:46	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:49	02/04/20 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**	**B**	9.0	1.4	mg/L			02/04/20 02:36	10
Sulfate	**190**		12	2.6	mg/L			02/04/20 02:36	10
Ammonia as N	**0.70**		0.50	0.26	mg/L		02/03/20 18:43	02/03/20 18:46	1
Nitrate Nitrite as N	**0.12**	**J**	0.15	0.060	mg/L			02/15/20 18:36	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: EqR

Date Collected: 01/29/20 09:51
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-23

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			01/31/20 16:05	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			01/31/20 16:05	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			01/31/20 16:05	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			01/31/20 16:05	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			01/31/20 16:05	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			01/31/20 16:05	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			01/31/20 16:05	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			01/31/20 16:05	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			01/31/20 16:05	1
1,2,4-Trichlorobenzene	**0.16**	**J B**	0.30	0.072	ug/L			01/31/20 16:05	1
1,2,4-Trimethylbenzene	**0.077**	**J B**	0.30	0.072	ug/L			01/31/20 16:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			01/31/20 16:05	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 16:05	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			01/31/20 16:05	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			01/31/20 16:05	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			01/31/20 16:05	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 16:05	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			01/31/20 16:05	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 16:05	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			01/31/20 16:05	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			01/31/20 16:05	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			01/31/20 16:05	1
4-Isopropyltoluene	**0.14**	**J B**	0.30	0.050	ug/L			01/31/20 16:05	1
Benzene	ND		0.20	0.030	ug/L			01/31/20 16:05	1
Bromobenzene	ND		0.20	0.035	ug/L			01/31/20 16:05	1
Bromoform	**0.30**	**J**	0.50	0.16	ug/L			01/31/20 16:05	1
Bromomethane	ND		0.50	0.16	ug/L			01/31/20 16:05	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			01/31/20 16:05	1
Chlorobenzene	ND		0.20	0.025	ug/L			01/31/20 16:05	1
Chlorobromomethane	ND		0.20	0.025	ug/L			01/31/20 16:05	1
Chlorodibromomethane	**0.34**		0.20	0.055	ug/L			01/31/20 16:05	1
Chloroethane	ND		0.50	0.096	ug/L			01/31/20 16:05	1
Chloroform	**0.082**	**J**	0.20	0.030	ug/L			01/31/20 16:05	1
Chloromethane	**0.24**	**J**	0.50	0.15	ug/L			01/31/20 16:05	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			01/31/20 16:05	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			01/31/20 16:05	1
Dibromomethane	ND		0.20	0.062	ug/L			01/31/20 16:05	1
Dichlorobromomethane	**0.14**	**J**	0.20	0.060	ug/L			01/31/20 16:05	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			01/31/20 16:05	1
Ethylbenzene	ND		0.20	0.030	ug/L			01/31/20 16:05	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			01/31/20 16:05	1
Isopropylbenzene	ND		1.0	0.19	ug/L			01/31/20 16:05	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			01/31/20 16:05	1
Methylene Chloride	ND		5.0	0.74	ug/L			01/31/20 16:05	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			01/31/20 16:05	1
Naphthalene	ND		1.0	0.22	ug/L			01/31/20 16:05	1
n-Butylbenzene	**0.15**	**J B**	0.50	0.080	ug/L			01/31/20 16:05	1
N-Propylbenzene	ND		0.30	0.091	ug/L			01/31/20 16:05	1
o-Xylene	ND		0.50	0.15	ug/L			01/31/20 16:05	1

Client Sample ID: EqR
Date Collected: 01/29/20 09:51
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-23
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			01/31/20 16:05	1
Styrene	ND		0.50	0.19	ug/L			01/31/20 16:05	1
tert-Butylbenzene	**0.12**	**J B**	0.50	0.10	ug/L			01/31/20 16:05	1
Tetrachloroethene	ND		0.50	0.084	ug/L			01/31/20 16:05	1
Toluene	ND		0.20	0.050	ug/L			01/31/20 16:05	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			01/31/20 16:05	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			01/31/20 16:05	1
Trichloroethene	ND		0.20	0.066	ug/L			01/31/20 16:05	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			01/31/20 16:05	1
Vinyl chloride	ND		0.020	0.013	ug/L			01/31/20 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*01/31/20 16:05*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*01/31/20 16:05*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*01/31/20 16:05*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/31/20 16:05*	*1*
Trifluorotoluene (Surr)	*106*		*80 - 120*		*01/31/20 16:05*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*50 - 150*		*02/03/20 16:48*	*1*
Trifluorotoluene (Surr)	*88*		*50 - 150*		*02/03/20 16:48*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0056	ug/L		02/07/20 11:23	02/25/20 19:02	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.96	0.44	ug/L		02/04/20 15:10	02/18/20 20:22	1
2,4-D	ND		3.8	0.51	ug/L		02/04/20 15:10	02/18/20 20:22	1
2,4-DB	ND		3.8	0.72	ug/L		02/04/20 15:10	02/18/20 20:22	1
Dalapon	ND		1.9	0.87	ug/L		02/04/20 15:10	02/18/20 20:22	1
Dicamba	ND		1.9	0.42	ug/L		02/04/20 15:10	02/18/20 20:22	1
Dichlorprop	ND		3.8	0.62	ug/L		02/04/20 15:10	02/18/20 20:22	1
Dinoseb	ND		0.96	0.43	ug/L		02/04/20 15:10	02/18/20 20:22	1
MCPA	ND		380	46	ug/L		02/04/20 15:10	02/18/20 20:22	1
MCPP	ND		380	32	ug/L		02/04/20 15:10	02/18/20 20:22	1
Picloram	ND		0.48	0.23	ug/L		02/04/20 15:10	02/18/20 20:22	1
Silvex (2,4,5-TP)	ND		0.96	0.16	ug/L		02/04/20 15:10	02/18/20 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*86*		*39 - 135*	*02/04/20 15:10*	*02/18/20 20:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.067	mg/L		02/04/20 11:26	02/05/20 18:08	1
Motor Oil (>C24-C36)	ND		0.36	0.099	mg/L		02/04/20 11:26	02/05/20 18:08	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: EqR

Date Collected: 01/29/20 09:51
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-23

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*02/04/20 11:26*	*02/05/20 18:08*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0052**		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 12:50	5
Barium	**0.033**		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 12:50	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 12:50	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 12:50	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 12:50	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 12:50	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 12:50	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:49	02/04/20 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.5**	**B**	0.90	0.14	mg/L			02/04/20 02:47	1
Sulfate	**20**		1.2	0.26	mg/L			02/04/20 02:47	1
Ammonia as N	ND		0.50	0.26	mg/L		02/03/20 18:43	02/03/20 18:46	1
Nitrate Nitrite as N	**0.18**		0.15	0.060	mg/L			02/15/20 18:37	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-321804/8
Matrix: Water
Analysis Batch: 321804

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			01/31/20 14:46	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			01/31/20 14:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			01/31/20 14:46	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			01/31/20 14:46	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			01/31/20 14:46	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			01/31/20 14:46	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			01/31/20 14:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			01/31/20 14:46	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			01/31/20 14:46	1
1,2,4-Trichlorobenzene	0.170	J	0.30	0.072	ug/L			01/31/20 14:46	1
1,2,4-Trimethylbenzene	0.0784	J	0.30	0.072	ug/L			01/31/20 14:46	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			01/31/20 14:46	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 14:46	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			01/31/20 14:46	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			01/31/20 14:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			01/31/20 14:46	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 14:46	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			01/31/20 14:46	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			01/31/20 14:46	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			01/31/20 14:46	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			01/31/20 14:46	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			01/31/20 14:46	1
4-Isopropyltoluene	0.145	J	0.30	0.050	ug/L			01/31/20 14:46	1
Benzene	ND		0.20	0.030	ug/L			01/31/20 14:46	1
Bromobenzene	ND		0.20	0.035	ug/L			01/31/20 14:46	1
Bromoform	ND		0.50	0.16	ug/L			01/31/20 14:46	1
Bromomethane	ND		0.50	0.16	ug/L			01/31/20 14:46	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			01/31/20 14:46	1
Chlorobenzene	ND		0.20	0.025	ug/L			01/31/20 14:46	1
Chlorobromomethane	ND		0.20	0.025	ug/L			01/31/20 14:46	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			01/31/20 14:46	1
Chloroethane	ND		0.50	0.096	ug/L			01/31/20 14:46	1
Chloroform	ND		0.20	0.030	ug/L			01/31/20 14:46	1
Chloromethane	ND		0.50	0.15	ug/L			01/31/20 14:46	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			01/31/20 14:46	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			01/31/20 14:46	1
Dibromomethane	ND		0.20	0.062	ug/L			01/31/20 14:46	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			01/31/20 14:46	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			01/31/20 14:46	1
Ethylbenzene	ND		0.20	0.030	ug/L			01/31/20 14:46	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			01/31/20 14:46	1
Isopropylbenzene	0.286	J	1.0	0.19	ug/L			01/31/20 14:46	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			01/31/20 14:46	1
Methylene Chloride	ND		5.0	0.74	ug/L			01/31/20 14:46	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			01/31/20 14:46	1
Naphthalene	0.343	J	1.0	0.22	ug/L			01/31/20 14:46	1
n-Butylbenzene	0.155	J	0.50	0.080	ug/L			01/31/20 14:46	1
N-Propylbenzene	ND		0.30	0.091	ug/L			01/31/20 14:46	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-321804/8
Matrix: Water
Analysis Batch: 321804

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.150	J	0.50	0.15	ug/L			01/31/20 14:46	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			01/31/20 14:46	1
Styrene	ND		0.50	0.19	ug/L			01/31/20 14:46	1
tert-Butylbenzene	0.124	J	0.50	0.10	ug/L			01/31/20 14:46	1
Tetrachloroethene	ND		0.50	0.084	ug/L			01/31/20 14:46	1
Toluene	ND		0.20	0.050	ug/L			01/31/20 14:46	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			01/31/20 14:46	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			01/31/20 14:46	1
Trichloroethene	ND		0.20	0.066	ug/L			01/31/20 14:46	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			01/31/20 14:46	1
Vinyl chloride	ND		0.020	0.013	ug/L			01/31/20 14:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*01/31/20 14:46*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*01/31/20 14:46*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*01/31/20 14:46*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*01/31/20 14:46*	*1*
Trifluorotoluene (Surr)	*113*		*80 - 120*		*01/31/20 14:46*	*1*

Lab Sample ID: LCS 580-321804/5
Matrix: Water
Analysis Batch: 321804

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	5.15		ug/L		103	79 - 127
1,1,1-Trichloroethane	5.00	5.30		ug/L		106	74 - 128
1,1,2,2-Tetrachloroethane	5.00	4.63		ug/L		93	69 - 139
1,1,2-Trichloroethane	5.00	5.04		ug/L		101	80 - 127
1,1-Dichloroethane	5.00	5.06		ug/L		101	74 - 135
1,1-Dichloroethene	5.00	4.68		ug/L		94	71 - 126
1,1-Dichloropropene	5.00	5.01		ug/L		100	72 - 132
1,2,3-Trichlorobenzene	5.00	4.49		ug/L		90	75 - 137
1,2,3-Trichloropropane	5.00	4.94		ug/L		99	80 - 127
1,2,4-Trichlorobenzene	5.00	4.18		ug/L		84	79 - 130
1,2,4-Trimethylbenzene	5.00	4.96		ug/L		99	78 - 136
1,2-Dibromo-3-Chloropropane	5.00	4.39		ug/L		88	69 - 130
1,2-Dichlorobenzene	5.00	5.00		ug/L		100	80 - 129
1,2-Dichloroethane	5.00	4.96		ug/L		99	74 - 130
1,2-Dichloropropane	5.00	5.29		ug/L		106	80 - 130
1,3,5-Trimethylbenzene	5.00	5.33		ug/L		107	80 - 139
1,3-Dichlorobenzene	5.00	5.14		ug/L		103	80 - 130
1,3-Dichloropropane	5.00	5.16		ug/L		103	80 - 130
1,4-Dichlorobenzene	5.00	4.72		ug/L		94	80 - 129
2,2-Dichloropropane	5.00	5.74		ug/L		115	58 - 150
2-Chlorotoluene	5.00	4.95		ug/L		99	80 - 136
4-Chlorotoluene	5.00	5.54		ug/L		111	80 - 130
4-Isopropyltoluene	5.00	4.85		ug/L		97	78 - 132
Benzene	5.00	5.21		ug/L		104	73 - 133

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-321804/5
Matrix: Water
Analysis Batch: 321804

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	5.00	4.73		ug/L		95	80 - 130
Bromoform	5.00	5.05		ug/L		101	69 - 137
Bromomethane	5.00	4.84		ug/L		97	68 - 120
Carbon tetrachloride	5.00	5.30		ug/L		106	71 - 132
Chlorobenzene	5.00	4.97		ug/L		99	80 - 123
Chlorobromomethane	5.00	5.16		ug/L		103	79 - 131
Chlorodibromomethane	5.00	4.75		ug/L		95	76 - 131
Chloroethane	5.00	5.02		ug/L		100	49 - 135
Chloroform	5.00	5.14		ug/L		103	80 - 130
Chloromethane	5.00	4.50		ug/L		90	32 - 143
cis-1,2-Dichloroethene	5.00	5.28		ug/L		106	72 - 130
cis-1,3-Dichloropropene	5.00	4.63		ug/L		93	66 - 141
Dibromomethane	5.00	4.98		ug/L		100	65 - 141
Dichlorobromomethane	5.00	5.28		ug/L		106	74 - 131
Dichlorodifluoromethane	5.00	4.16		ug/L		83	20 - 137
Ethylbenzene	5.00	5.61		ug/L		112	80 - 130
Hexachlorobutadiene	5.00	5.04		ug/L		101	72 - 138
Isopropylbenzene	5.00	4.62		ug/L		92	75 - 137
Methyl tert-butyl ether	5.00	4.60		ug/L		92	60 - 150
Methylene Chloride	5.00	5.01		ug/L		100	75 - 134
m-Xylene & p-Xylene	5.00	5.72		ug/L		114	78 - 130
Naphthalene	5.00	4.21		ug/L		84	64 - 132
n-Butylbenzene	5.00	4.76		ug/L		95	73 - 135
N-Propylbenzene	5.00	5.72		ug/L		114	77 - 142
o-Xylene	5.00	4.60		ug/L		92	80 - 139
sec-Butylbenzene	5.00	4.99		ug/L		100	78 - 140
Styrene	5.00	5.22		ug/L		104	74 - 136
tert-Butylbenzene	5.00	4.90		ug/L		98	77 - 140
Tetrachloroethene	5.00	4.93		ug/L		99	75 - 131
Toluene	5.00	5.15		ug/L		103	80 - 126
trans-1,2-Dichloroethene	5.00	5.10		ug/L		102	63 - 133
trans-1,3-Dichloropropene	5.00	4.98		ug/L		100	71 - 128
Trichloroethene	5.00	5.09		ug/L		102	72 - 136
Trichlorofluoromethane	5.00	4.89		ug/L		98	60 - 132
Vinyl chloride	5.00	4.74		ug/L		95	52 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*97*		*80 - 120*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-321804/6
Matrix: Water
Analysis Batch: 321804

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			5.00	5.06		ug/L		101	79 - 127	2	20
1,1,1-Trichloroethane			5.00	5.20		ug/L		104	74 - 128	2	14
1,1,2,2-Tetrachloroethane			5.00	4.70		ug/L		94	69 - 139	2	22
1,1,2-Trichloroethane			5.00	5.01		ug/L		100	80 - 127	1	19
1,1-Dichloroethane			5.00	4.96		ug/L		99	74 - 135	2	20
1,1-Dichloroethene			5.00	4.65		ug/L		93	71 - 126	1	17
1,1-Dichloropropene			5.00	4.88		ug/L		98	72 - 132	3	13
1,2,3-Trichlorobenzene			5.00	4.48		ug/L		90	75 - 137	0	20
1,2,3-Trichloropropane			5.00	5.03		ug/L		101	80 - 127	2	20
1,2,4-Trichlorobenzene			5.00	4.20		ug/L		84	79 - 130	0	20
1,2,4-Trimethylbenzene			5.00	4.77		ug/L		95	78 - 136	4	20
1,2-Dibromo-3-Chloropropane			5.00	4.59		ug/L		92	69 - 130	5	26
1,2-Dichlorobenzene			5.00	4.89		ug/L		98	80 - 129	2	14
1,2-Dichloroethane			5.00	4.91		ug/L		98	74 - 130	1	15
1,2-Dichloropropane			5.00	5.13		ug/L		103	80 - 130	3	14
1,3,5-Trimethylbenzene			5.00	5.09		ug/L		102	80 - 139	5	20
1,3-Dichlorobenzene			5.00	5.00		ug/L		100	80 - 130	3	12
1,3-Dichloropropane			5.00	5.22		ug/L		104	80 - 130	1	19
1,4-Dichlorobenzene			5.00	4.65		ug/L		93	80 - 129	1	11
2,2-Dichloropropane			5.00	5.55		ug/L		111	58 - 150	3	28
2-Chlorotoluene			5.00	4.75		ug/L		95	80 - 136	4	20
4-Chlorotoluene			5.00	5.31		ug/L		106	80 - 130	4	20
4-Isopropyltoluene			5.00	4.62		ug/L		92	78 - 132	5	14
Benzene			5.00	5.07		ug/L		101	73 - 133	3	20
Bromobenzene			5.00	4.65		ug/L		93	80 - 130	2	20
Bromoform			5.00	5.19		ug/L		104	69 - 137	3	20
Bromomethane			5.00	4.71		ug/L		94	68 - 120	3	18
Carbon tetrachloride			5.00	5.23		ug/L		105	71 - 132	1	15
Chlorobenzene			5.00	4.82		ug/L		96	80 - 123	3	12
Chlorobromomethane			5.00	5.11		ug/L		102	79 - 131	1	20
Chlorodibromomethane			5.00	4.76		ug/L		95	76 - 131	0	20
Chloroethane			5.00	4.87		ug/L		97	49 - 135	3	27
Chloroform			5.00	5.01		ug/L		100	80 - 130	3	20
Chloromethane			5.00	4.30		ug/L		86	32 - 143	4	23
cis-1,2-Dichloroethene			5.00	5.14		ug/L		103	72 - 130	3	20
cis-1,3-Dichloropropene			5.00	4.60		ug/L		92	66 - 141	1	22
Dibromomethane			5.00	4.94		ug/L		99	65 - 141	1	20
Dichlorobromomethane			5.00	5.25		ug/L		105	74 - 131	1	20
Dichlorodifluoromethane			5.00	3.95		ug/L		79	20 - 137	5	22
Ethylbenzene			5.00	5.46		ug/L		109	80 - 130	3	20
Hexachlorobutadiene			5.00	4.84		ug/L		97	72 - 138	4	20
Isopropylbenzene			5.00	4.53		ug/L		91	75 - 137	2	20
Methyl tert-butyl ether			5.00	4.73		ug/L		95	60 - 150	3	25
Methylene Chloride			5.00	4.92	J	ug/L		98	75 - 134	2	18
m-Xylene & p-Xylene			5.00	5.58		ug/L		112	78 - 130	2	20
Naphthalene			5.00	4.19		ug/L		84	64 - 132	0	20
n-Butylbenzene			5.00	4.57		ug/L		91	73 - 135	4	18
N-Propylbenzene			5.00	5.42		ug/L		108	77 - 142	5	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-321804/6
Matrix: Water
Analysis Batch: 321804

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			5.00	4.49		ug/L		90	80 - 139	2	20
sec-Butylbenzene			5.00	4.79		ug/L		96	78 - 140	4	20
Styrene			5.00	5.19		ug/L		104	74 - 136	1	20
tert-Butylbenzene			5.00	4.62		ug/L		92	77 - 140	6	20
Tetrachloroethene			5.00	4.81		ug/L		96	75 - 131	2	20
Toluene			5.00	4.98		ug/L		100	80 - 126	3	20
trans-1,2-Dichloroethene			5.00	5.01		ug/L		100	63 - 133	2	17
trans-1,3-Dichloropropene			5.00	5.01		ug/L		100	71 - 128	0	21
Trichloroethene			5.00	4.95		ug/L		99	72 - 136	3	14
Trichlorofluoromethane			5.00	4.80		ug/L		96	60 - 132	2	20
Vinyl chloride			5.00	4.54		ug/L		91	52 - 128	4	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*94*		*80 - 120*

Lab Sample ID: MB 580-321898/10
Matrix: Water
Analysis Batch: 321898

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/03/20 17:57	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/03/20 17:57	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/03/20 17:57	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/03/20 17:57	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/03/20 17:57	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/03/20 17:57	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/03/20 17:57	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/03/20 17:57	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/03/20 17:57	1
1,2,4-Trichlorobenzene	0.172	J	0.30	0.072	ug/L			02/03/20 17:57	1
1,2,4-Trimethylbenzene	0.0826	J	0.30	0.072	ug/L			02/03/20 17:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/03/20 17:57	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 17:57	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			02/03/20 17:57	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/03/20 17:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/03/20 17:57	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 17:57	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/03/20 17:57	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/03/20 17:57	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/03/20 17:57	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/03/20 17:57	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/03/20 17:57	1
4-Isopropyltoluene	0.146	J	0.30	0.050	ug/L			02/03/20 17:57	1
Benzene	ND		0.20	0.030	ug/L			02/03/20 17:57	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-321898/10
Matrix: Water
Analysis Batch: 321898

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.20	0.035	ug/L			02/03/20 17:57	1
Bromoform	ND		0.50	0.16	ug/L			02/03/20 17:57	1
Bromomethane	ND		0.50	0.16	ug/L			02/03/20 17:57	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/03/20 17:57	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/03/20 17:57	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/03/20 17:57	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/03/20 17:57	1
Chloroethane	ND		0.50	0.096	ug/L			02/03/20 17:57	1
Chloroform	ND		0.20	0.030	ug/L			02/03/20 17:57	1
Chloromethane	ND		0.50	0.15	ug/L			02/03/20 17:57	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/03/20 17:57	1
cis-1,3-Dichloropropene	0.147	J	0.20	0.090	ug/L			02/03/20 17:57	1
Dibromomethane	ND		0.20	0.062	ug/L			02/03/20 17:57	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/03/20 17:57	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/03/20 17:57	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/03/20 17:57	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/03/20 17:57	1
Isopropylbenzene	0.286	J	1.0	0.19	ug/L			02/03/20 17:57	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/03/20 17:57	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/03/20 17:57	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/03/20 17:57	1
Naphthalene	0.345	J	1.0	0.22	ug/L			02/03/20 17:57	1
n-Butylbenzene	0.156	J	0.50	0.080	ug/L			02/03/20 17:57	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/03/20 17:57	1
o-Xylene	0.151	J	0.50	0.15	ug/L			02/03/20 17:57	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/03/20 17:57	1
Styrene	ND		0.50	0.19	ug/L			02/03/20 17:57	1
tert-Butylbenzene	0.125	J	0.50	0.10	ug/L			02/03/20 17:57	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/03/20 17:57	1
Toluene	ND		0.20	0.050	ug/L			02/03/20 17:57	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/03/20 17:57	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/03/20 17:57	1
Trichloroethene	ND		0.20	0.066	ug/L			02/03/20 17:57	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/03/20 17:57	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/03/20 17:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*02/03/20 17:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*02/03/20 17:57*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*02/03/20 17:57*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/03/20 17:57*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 120*		*02/03/20 17:57*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-321898/7
Matrix: Water
Analysis Batch: 321898

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	5.31		ug/L		106	79 - 127
1,1,1-Trichloroethane	5.00	5.43		ug/L		109	74 - 128
1,1,2,2-Tetrachloroethane	5.00	5.24		ug/L		105	69 - 139
1,1,2-Trichloroethane	5.00	5.05		ug/L		101	80 - 127
1,1-Dichloroethane	5.00	5.28		ug/L		106	74 - 135
1,1-Dichloroethene	5.00	5.16		ug/L		103	71 - 126
1,1-Dichloropropene	5.00	5.16		ug/L		103	72 - 132
1,2,3-Trichlorobenzene	5.00	5.15		ug/L		103	75 - 137
1,2,3-Trichloropropane	5.00	5.39		ug/L		108	80 - 127
1,2,4-Trichlorobenzene	5.00	4.88		ug/L		98	79 - 130
1,2,4-Trimethylbenzene	5.00	5.05		ug/L		101	78 - 136
1,2-Dibromo-3-Chloropropane	5.00	5.30		ug/L		106	69 - 130
1,2-Dichlorobenzene	5.00	5.24		ug/L		105	80 - 129
1,2-Dichloroethane	5.00	5.09		ug/L		102	74 - 130
1,2-Dichloropropane	5.00	5.18		ug/L		104	80 - 130
1,3,5-Trimethylbenzene	5.00	5.41		ug/L		108	80 - 139
1,3-Dichlorobenzene	5.00	5.23		ug/L		105	80 - 130
1,3-Dichloropropane	5.00	5.32		ug/L		106	80 - 130
1,4-Dichlorobenzene	5.00	4.81		ug/L		96	80 - 129
2,2-Dichloropropane	5.00	5.80		ug/L		116	58 - 150
2-Chlorotoluene	5.00	5.05		ug/L		101	80 - 136
4-Chlorotoluene	5.00	5.46		ug/L		109	80 - 130
4-Isopropyltoluene	5.00	4.91		ug/L		98	78 - 132
Benzene	5.00	5.25		ug/L		105	73 - 133
Bromobenzene	5.00	4.93		ug/L		99	80 - 130
Bromoform	5.00	5.61		ug/L		112	69 - 137
Bromomethane	5.00	4.93		ug/L		99	68 - 120
Carbon tetrachloride	5.00	5.38		ug/L		108	71 - 132
Chlorobenzene	5.00	4.88		ug/L		98	80 - 123
Chlorobromomethane	5.00	5.43		ug/L		109	79 - 131
Chlorodibromomethane	5.00	5.01		ug/L		100	76 - 131
Chloroethane	5.00	4.90		ug/L		98	49 - 135
Chloroform	5.00	5.27		ug/L		105	80 - 130
Chloromethane	5.00	4.47		ug/L		89	32 - 143
cis-1,2-Dichloroethene	5.00	5.53		ug/L		111	72 - 130
cis-1,3-Dichloropropene	5.00	4.89		ug/L		98	66 - 141
Dibromomethane	5.00	5.26		ug/L		105	65 - 141
Dichlorobromomethane	5.00	5.36		ug/L		107	74 - 131
Dichlorodifluoromethane	5.00	3.76		ug/L		75	20 - 137
Ethylbenzene	5.00	5.53		ug/L		111	80 - 130
Hexachlorobutadiene	5.00	5.20		ug/L		104	72 - 138
Isopropylbenzene	5.00	4.75		ug/L		95	75 - 137
Methyl tert-butyl ether	5.00	5.44		ug/L		109	60 - 150
Methylene Chloride	5.00	5.32		ug/L		106	75 - 134
m-Xylene & p-Xylene	5.00	5.64		ug/L		113	78 - 130
Naphthalene	5.00	5.11		ug/L		102	64 - 132
n-Butylbenzene	5.00	4.90		ug/L		98	73 - 135
N-Propylbenzene	5.00	5.66		ug/L		113	77 - 142

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-321898/7
Matrix: Water
Analysis Batch: 321898

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			5.00	4.64		ug/L		93	80 - 139		
sec-Butylbenzene			5.00	5.13		ug/L		103	78 - 140		
Styrene			5.00	5.24		ug/L		105	74 - 136		
tert-Butylbenzene			5.00	4.96		ug/L		99	77 - 140		
Tetrachloroethene			5.00	4.88		ug/L		98	75 - 131		
Toluene			5.00	5.09		ug/L		102	80 - 126		
trans-1,2-Dichloroethene			5.00	5.37		ug/L		107	63 - 133		
trans-1,3-Dichloropropene			5.00	5.30		ug/L		106	71 - 128		
Trichloroethene			5.00	5.22		ug/L		104	72 - 136		
Trichlorofluoromethane			5.00	4.92		ug/L		98	60 - 132		
Vinyl chloride			5.00	4.79		ug/L		96	52 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*97*		*80 - 120*

Lab Sample ID: LCSD 580-321898/8
Matrix: Water
Analysis Batch: 321898

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			5.00	5.43		ug/L		109	79 - 127	2	20
1,1,1-Trichloroethane			5.00	5.43		ug/L		109	74 - 128	0	14
1,1,2,2-Tetrachloroethane			5.00	5.32		ug/L		106	69 - 139	1	22
1,1,2-Trichloroethane			5.00	5.10		ug/L		102	80 - 127	1	19
1,1-Dichloroethane			5.00	5.31		ug/L		106	74 - 135	1	20
1,1-Dichloroethene			5.00	5.16		ug/L		103	71 - 126	0	17
1,1-Dichloropropene			5.00	5.16		ug/L		103	72 - 132	0	13
1,2,3-Trichlorobenzene			5.00	5.34		ug/L		107	75 - 137	4	20
1,2,3-Trichloropropane			5.00	5.54		ug/L		111	80 - 127	3	20
1,2,4-Trichlorobenzene			5.00	4.98		ug/L		100	79 - 130	2	20
1,2,4-Trimethylbenzene			5.00	5.06		ug/L		101	78 - 136	0	20
1,2-Dibromo-3-Chloropropane			5.00	5.59		ug/L		112	69 - 130	5	26
1,2-Dichlorobenzene			5.00	5.28		ug/L		106	80 - 129	1	14
1,2-Dichloroethane			5.00	5.07		ug/L		101	74 - 130	0	15
1,2-Dichloropropane			5.00	5.14		ug/L		103	80 - 130	1	14
1,3,5-Trimethylbenzene			5.00	5.42		ug/L		108	80 - 139	0	20
1,3-Dichlorobenzene			5.00	5.23		ug/L		105	80 - 130	0	12
1,3-Dichloropropane			5.00	5.36		ug/L		107	80 - 130	1	19
1,4-Dichlorobenzene			5.00	4.81		ug/L		96	80 - 129	0	11
2,2-Dichloropropane			5.00	5.78		ug/L		116	58 - 150	0	28
2-Chlorotoluene			5.00	5.10		ug/L		102	80 - 136	1	20
4-Chlorotoluene			5.00	5.50		ug/L		110	80 - 130	1	20
4-Isopropyltoluene			5.00	4.91		ug/L		98	78 - 132	0	14
Benzene			5.00	5.30		ug/L		106	73 - 133	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-321898/8
Matrix: Water
Analysis Batch: 321898

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene			5.00	4.91		ug/L		98	80 - 130	1	20
Bromoform			5.00	5.66		ug/L		113	69 - 137	1	20
Bromomethane			5.00	5.01		ug/L		100	68 - 120	2	18
Carbon tetrachloride			5.00	5.39		ug/L		108	71 - 132	0	15
Chlorobenzene			5.00	4.93		ug/L		99	80 - 123	1	12
Chlorobromomethane			5.00	5.43		ug/L		109	79 - 131	0	20
Chlorodibromomethane			5.00	5.09		ug/L		102	76 - 131	1	20
Chloroethane			5.00	5.11		ug/L		102	49 - 135	4	27
Chloroform			5.00	5.29		ug/L		106	80 - 130	0	20
Chloromethane			5.00	4.42		ug/L		88	32 - 143	1	23
cis-1,2-Dichloroethene			5.00	5.62		ug/L		112	72 - 130	2	20
cis-1,3-Dichloropropene			5.00	4.95		ug/L		99	66 - 141	1	22
Dibromomethane			5.00	5.28		ug/L		106	65 - 141	0	20
Dichlorobromomethane			5.00	5.42		ug/L		108	74 - 131	1	20
Dichlorodifluoromethane			5.00	3.62		ug/L		72	20 - 137	4	22
Ethylbenzene			5.00	5.53		ug/L		111	80 - 130	0	20
Hexachlorobutadiene			5.00	5.21		ug/L		104	72 - 138	0	20
Isopropylbenzene			5.00	4.80		ug/L		96	75 - 137	1	20
Methyl tert-butyl ether			5.00	5.54		ug/L		111	60 - 150	2	25
Methylene Chloride			5.00	5.36		ug/L		107	75 - 134	1	18
m-Xylene & p-Xylene			5.00	5.70		ug/L		114	78 - 130	1	20
Naphthalene			5.00	5.30		ug/L		106	64 - 132	4	20
n-Butylbenzene			5.00	4.88		ug/L		98	73 - 135	0	18
N-Propylbenzene			5.00	5.68		ug/L		114	77 - 142	0	20
o-Xylene			5.00	4.71		ug/L		94	80 - 139	2	20
sec-Butylbenzene			5.00	5.09		ug/L		102	78 - 140	1	20
Styrene			5.00	5.25		ug/L		105	74 - 136	0	20
tert-Butylbenzene			5.00	5.03		ug/L		101	77 - 140	1	20
Tetrachloroethene			5.00	4.97		ug/L		99	75 - 131	2	20
Toluene			5.00	5.15		ug/L		103	80 - 126	1	20
trans-1,2-Dichloroethene			5.00	5.38		ug/L		108	63 - 133	0	17
trans-1,3-Dichloropropene			5.00	5.36		ug/L		107	71 - 128	1	21
Trichloroethene			5.00	5.26		ug/L		105	72 - 136	1	14
Trichlorofluoromethane			5.00	4.97		ug/L		99	60 - 132	1	20
Vinyl chloride			5.00	4.76		ug/L		95	52 - 128	1	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*97*		*80 - 120*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-322015/8
Matrix: Water
Analysis Batch: 322015

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/05/20 13:22	1
1,2,4-Trichlorobenzene	0.170	J	0.30	0.072	ug/L			02/05/20 13:22	1
1,2,4-Trimethylbenzene	0.0871	J	0.30	0.072	ug/L			02/05/20 13:22	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			02/05/20 13:22	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/05/20 13:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/05/20 13:22	1
Benzene	ND		0.20	0.030	ug/L			02/05/20 13:22	1
Chloromethane	ND		0.50	0.15	ug/L			02/05/20 13:22	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/05/20 13:22	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/05/20 13:22	1
Isopropylbenzene	0.286	J	1.0	0.19	ug/L			02/05/20 13:22	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/05/20 13:22	1
Naphthalene	0.349	J	1.0	0.22	ug/L			02/05/20 13:22	1
n-Butylbenzene	0.157	J	0.50	0.080	ug/L			02/05/20 13:22	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/05/20 13:22	1
o-Xylene	0.155	J	0.50	0.15	ug/L			02/05/20 13:22	1
tert-Butylbenzene	0.125	J	0.50	0.10	ug/L			02/05/20 13:22	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/05/20 13:22	1
Toluene	ND		0.20	0.050	ug/L			02/05/20 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*02/05/20 13:22*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/05/20 13:22*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*02/05/20 13:22*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/05/20 13:22*	*1*
Trifluorotoluene (Surr)	*106*		*80 - 120*		*02/05/20 13:22*	*1*

Lab Sample ID: LCS 580-322015/5
Matrix: Water
Analysis Batch: 322015

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	5.00	4.96		ug/L		99	80 - 127
1,2,4-Trichlorobenzene	5.00	4.91		ug/L		98	79 - 130
1,2,4-Trimethylbenzene	5.00	5.12		ug/L		102	78 - 136
1,2-Dichloroethane	5.00	5.18		ug/L		104	74 - 130
1,2-Dichloropropane	5.00	5.20		ug/L		104	80 - 130
1,3,5-Trimethylbenzene	5.00	5.48		ug/L		110	80 - 139
Benzene	5.00	5.26		ug/L		105	73 - 133
Chloromethane	5.00	4.54		ug/L		91	32 - 143
cis-1,3-Dichloropropene	5.00	4.81		ug/L		96	66 - 141
Ethylbenzene	5.00	5.54		ug/L		111	80 - 130
Isopropylbenzene	5.00	4.75		ug/L		95	75 - 137
m-Xylene & p-Xylene	5.00	5.69		ug/L		114	78 - 130
Naphthalene	5.00	5.28		ug/L		106	64 - 132
n-Butylbenzene	5.00	4.85		ug/L		97	73 - 135
N-Propylbenzene	5.00	5.70		ug/L		114	77 - 142
o-Xylene	5.00	4.68		ug/L		94	80 - 139

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-322015/5
Matrix: Water
Analysis Batch: 322015

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
tert-Butylbenzene			5.00	5.02		ug/L		100	77 - 140		
Tetrachloroethene			5.00	4.89		ug/L		98	75 - 131		
Toluene			5.00	5.11		ug/L		102	80 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 580-322015/6
Matrix: Water
Analysis Batch: 322015

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane			5.00	5.03		ug/L		101	80 - 127	1	19
1,2,4-Trichlorobenzene			5.00	4.91		ug/L		98	79 - 130	0	20
1,2,4-Trimethylbenzene			5.00	5.02		ug/L		100	78 - 136	2	20
1,2-Dichloroethane			5.00	5.19		ug/L		104	74 - 130	0	15
1,2-Dichloropropane			5.00	5.19		ug/L		104	80 - 130	0	14
1,3,5-Trimethylbenzene			5.00	5.31		ug/L		106	80 - 139	3	20
Benzene			5.00	5.22		ug/L		104	73 - 133	1	20
Chloromethane			5.00	4.30		ug/L		86	32 - 143	6	23
cis-1,3-Dichloropropene			5.00	4.90		ug/L		98	66 - 141	2	22
Ethylbenzene			5.00	5.47		ug/L		109	80 - 130	1	20
Isopropylbenzene			5.00	4.63		ug/L		93	75 - 137	3	20
m-Xylene & p-Xylene			5.00	5.64		ug/L		113	78 - 130	1	20
Naphthalene			5.00	5.27		ug/L		105	64 - 132	0	20
n-Butylbenzene			5.00	4.72		ug/L		94	73 - 135	3	18
N-Propylbenzene			5.00	5.61		ug/L		112	77 - 142	2	20
o-Xylene			5.00	4.59		ug/L		92	80 - 139	2	20
tert-Butylbenzene			5.00	4.96		ug/L		99	77 - 140	1	20
Tetrachloroethene			5.00	4.79		ug/L		96	75 - 131	2	20
Toluene			5.00	5.05		ug/L		101	80 - 126	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*97*		*80 - 120*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-322601/8
Matrix: Water
Analysis Batch: 322601

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			02/12/20 16:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*02/12/20 16:59*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/12/20 16:59*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*02/12/20 16:59*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/12/20 16:59*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*02/12/20 16:59*	*1*

Lab Sample ID: LCS 580-322601/5
Matrix: Water
Analysis Batch: 322601

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,4-Trimethylbenzene			5.00	5.17		ug/L		103	78 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
Trifluorotoluene (Surr)	*86*		*80 - 120*

Lab Sample ID: LCSD 580-322601/6
Matrix: Water
Analysis Batch: 322601

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			5.00	4.90		ug/L		98	78 - 136	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*85*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-321896/31
Matrix: Water
Analysis Batch: 321896

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 01:14	1

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

Lab Sample ID: MB 580-321896/31
Matrix: Water
Analysis Batch: 321896

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		50 - 150		02/04/20 01:14	1
Trifluorotoluene (Surr)	92		50 - 150		02/04/20 01:14	1

Lab Sample ID: MB 580-321896/5
Matrix: Water
Analysis Batch: 321896

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/03/20 14:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		50 - 150		02/03/20 14:04	1
Trifluorotoluene (Surr)	97		50 - 150		02/03/20 14:04	1

Lab Sample ID: LCS 580-321896/32
Matrix: Water
Analysis Batch: 321896

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1.00	0.936		mg/L		94	79 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		50 - 150
Trifluorotoluene (Surr)	90		50 - 150

Lab Sample ID: LCS 580-321896/6
Matrix: Water
Analysis Batch: 321896

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1.00	0.938		mg/L		94	79 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		50 - 150
Trifluorotoluene (Surr)	96		50 - 150

Lab Sample ID: LCSD 580-321896/33
Matrix: Water
Analysis Batch: 321896

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			1.00	0.929		mg/L		93	79 - 120	1	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		50 - 150
Trifluorotoluene (Surr)	95		50 - 150

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

Lab Sample ID: LCSD 580-321896/7
Matrix: Water
Analysis Batch: 321896

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			1.00	0.887		mg/L		89	79 - 120	6	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*50 - 150*
Trifluorotoluene (Surr)	*94*		*50 - 150*

Method: 8011 - EDB

Lab Sample ID: MB 590-26513/3-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0057	ug/L		02/07/20 11:23	02/25/20 14:43	1

Lab Sample ID: LCS 590-26513/4-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26513

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane (EDB)			0.0571	0.0495		ug/L		87	60 - 140		

Lab Sample ID: LCSD 590-26513/5-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26513

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			0.0571	0.0511		ug/L		89	60 - 140	3	20

Lab Sample ID: LLCS 590-26513/6-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26513

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane (EDB)			0.0114	0.00794	J	ug/L		69	60 - 150		

Lab Sample ID: MB 590-26514/3-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0057	ug/L		02/10/20 12:22	02/25/20 19:18	1

Lab Sample ID: LCS 590-26514/4-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26514

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane (EDB)			0.0571	0.0538		ug/L		94	60 - 140		

Method: 8011 - EDB (Continued)

Lab Sample ID: LCSD 590-26514/5-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26514

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			0.0571	0.0539		ug/L		94	60 - 140	0	20

Lab Sample ID: LLCS 590-26514/6-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26514

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)			0.0114	0.00846	J	ug/L		74	60 - 150

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 280-484770/1-A
Matrix: Water
Analysis Batch: 484980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/03/20 13:50	02/06/20 09:59	1
2,4-D	ND		4.0	0.53	ug/L		02/03/20 13:50	02/06/20 09:59	1
2,4-DB	ND		4.0	0.75	ug/L		02/03/20 13:50	02/06/20 09:59	1
Dalapon	ND		2.0	0.91	ug/L		02/03/20 13:50	02/06/20 09:59	1
Dicamba	ND		2.0	0.44	ug/L		02/03/20 13:50	02/06/20 09:59	1
Dichlorprop	ND		4.0	0.65	ug/L		02/03/20 13:50	02/06/20 09:59	1
Dinoseb	ND		1.0	0.45	ug/L		02/03/20 13:50	02/06/20 09:59	1
MCPA	ND		400	48	ug/L		02/03/20 13:50	02/06/20 09:59	1
MCPP	ND		400	33	ug/L		02/03/20 13:50	02/06/20 09:59	1
Picloram	ND		0.50	0.24	ug/L		02/03/20 13:50	02/06/20 09:59	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/03/20 13:50	02/06/20 09:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*39 - 135*	*02/03/20 13:50*	*02/06/20 09:59*	*1*

Lab Sample ID: MB 280-484770/1-A
Matrix: Water
Analysis Batch: 485402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/03/20 13:50	02/10/20 22:35	1
2,4-D	ND		4.0	0.53	ug/L		02/03/20 13:50	02/10/20 22:35	1
2,4-DB	ND		4.0	0.75	ug/L		02/03/20 13:50	02/10/20 22:35	1
Dalapon	ND		2.0	0.91	ug/L		02/03/20 13:50	02/10/20 22:35	1
Dicamba	ND		2.0	0.44	ug/L		02/03/20 13:50	02/10/20 22:35	1
Dichlorprop	ND		4.0	0.65	ug/L		02/03/20 13:50	02/10/20 22:35	1
Dinoseb	ND		1.0	0.45	ug/L		02/03/20 13:50	02/10/20 22:35	1
MCPA	ND		400	48	ug/L		02/03/20 13:50	02/10/20 22:35	1
MCPP	ND		400	33	ug/L		02/03/20 13:50	02/10/20 22:35	1
Picloram	ND		0.50	0.24	ug/L		02/03/20 13:50	02/10/20 22:35	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/03/20 13:50	02/10/20 22:35	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 280-484770/1-A
Matrix: Water
Analysis Batch: 485402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484770

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	79		39 - 135	02/03/20 13:50	02/10/20 22:35	1

Lab Sample ID: MB 280-484770/1-A
Matrix: Water
Analysis Batch: 485617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/03/20 13:50	02/12/20 20:45	1
2,4-D	ND		4.0	0.53	ug/L		02/03/20 13:50	02/12/20 20:45	1
2,4-DB	ND		4.0	0.75	ug/L		02/03/20 13:50	02/12/20 20:45	1
Dalapon	ND		2.0	0.91	ug/L		02/03/20 13:50	02/12/20 20:45	1
Dicamba	ND		2.0	0.44	ug/L		02/03/20 13:50	02/12/20 20:45	1
Dichlorprop	ND		4.0	0.65	ug/L		02/03/20 13:50	02/12/20 20:45	1
Dinoseb	ND		1.0	0.45	ug/L		02/03/20 13:50	02/12/20 20:45	1
MCPA	ND		400	48	ug/L		02/03/20 13:50	02/12/20 20:45	1
MCPP	ND		400	33	ug/L		02/03/20 13:50	02/12/20 20:45	1
Picloram	ND		0.50	0.24	ug/L		02/03/20 13:50	02/12/20 20:45	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/03/20 13:50	02/12/20 20:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	76		39 - 135	02/03/20 13:50	02/12/20 20:45	1

Lab Sample ID: LCS 280-484770/2-A
Matrix: Water
Analysis Batch: 484980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484770

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			5.00	2.92		ug/L		58	42 - 121		
2,4-D			5.00	3.55	J	ug/L		71	41 - 124		
2,4-DB			5.00	2.16	J	ug/L		43	35 - 117		
Dalapon			5.00	2.82		ug/L		56	24 - 124		
Dicamba			5.00	3.41		ug/L		68	44 - 114		
Dichlorprop			5.00	4.15		ug/L		83	46 - 117		
Dinoseb			5.00	1.21		ug/L		24	11 - 110		
MCPA			500	346	J	ug/L		69	37 - 106		
MCPP			500	450		ug/L		90	33 - 131		
Picloram			5.00	2.35		ug/L		47	39 - 109		
Silvex (2,4,5-TP)			5.00	3.48		ug/L		70	48 - 123		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	77		39 - 135

Lab Sample ID: LCS 280-484770/2-A
Matrix: Water
Analysis Batch: 485402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484770

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			5.00	3.07		ug/L		61	42 - 121		

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 280-484770/2-A
Matrix: Water
Analysis Batch: 485402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	5.00	3.70	J	ug/L		74	41 - 124
2,4-DB	5.00	2.50	J	ug/L		50	35 - 117
Dalapon	5.00	2.93		ug/L		59	24 - 124
Dicamba	5.00	3.64		ug/L		73	44 - 114
Dichlorprop	5.00	4.40		ug/L		88	46 - 117
Dinoseb	5.00	2.83		ug/L		57	11 - 110
MCPA	500	351	J	ug/L		70	37 - 106
MCPP	500	464		ug/L		93	33 - 131
Picloram	5.00	2.83		ug/L		57	39 - 109
Silvex (2,4,5-TP)	5.00	3.72		ug/L		74	48 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*80*		*39 - 135*

Lab Sample ID: LCS 280-484770/2-A
Matrix: Water
Analysis Batch: 485617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	5.00	3.51		ug/L		70	42 - 121
2,4-D	5.00	4.07		ug/L		81	41 - 124
2,4-DB	5.00	2.42	J	ug/L		48	35 - 117
Dalapon	5.00	2.91		ug/L		58	24 - 124
Dicamba	5.00	3.67		ug/L		73	44 - 114
Dichlorprop	5.00	4.41		ug/L		88	46 - 117
Dinoseb	5.00	1.73		ug/L		35	11 - 110
MCPA	500	394	J	ug/L		79	37 - 106
MCPP	500	485		ug/L		97	33 - 131
Picloram	5.00	2.31		ug/L		46	39 - 109
Silvex (2,4,5-TP)	5.00	3.96		ug/L		79	48 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*80*		*39 - 135*

Lab Sample ID: LCSD 280-484770/3-A
Matrix: Water
Analysis Batch: 484980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484770

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	5.00	3.19		ug/L		64	42 - 121	9	30
2,4-D	5.00	3.56	J	ug/L		71	41 - 124	0	30
2,4-DB	5.00	3.35	J	ug/L		67	35 - 117	2	30
Dalapon	5.00	3.38		ug/L		68	24 - 124	18	30
Dicamba	5.00	3.73		ug/L		75	44 - 114	9	30
Dichlorprop	5.00	4.21		ug/L		84	46 - 117	1	30
Dinoseb	5.00	1.88	*	ug/L		38	11 - 110	43	30
MCPA	500	335	J	ug/L		67	37 - 106	3	30
MCPP	500	414		ug/L		83	33 - 131	8	30

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 280-484770/3-A
Matrix: Water
Analysis Batch: 484980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484770

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Picloram			5.00	2.57		ug/L		51	39 - 109	9	30
Silvex (2,4,5-TP)			5.00	3.67		ug/L		73	48 - 123	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*76*		*39 - 135*

Lab Sample ID: LCSD 280-484770/3-A
Matrix: Water
Analysis Batch: 485402

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484770

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T			5.00	3.58		ug/L		72	42 - 121	15	30
2,4-D			5.00	4.20		ug/L		84	41 - 124	12	30
2,4-DB			5.00	2.46	J	ug/L		49	35 - 117	1	30
Dalapon			5.00	3.62		ug/L		72	24 - 124	21	30
Dicamba			5.00	4.10		ug/L		82	44 - 114	12	30
Dichlorprop			5.00	4.61		ug/L		92	46 - 117	5	30
Dinoseb			5.00	3.17		ug/L		63	11 - 110	11	30
MCPA			500	377	J	ug/L		75	37 - 106	7	30
MCPP			500	483		ug/L		97	33 - 131	4	30
Picloram			5.00	3.28		ug/L		66	39 - 109	15	30
Silvex (2,4,5-TP)			5.00	4.08		ug/L		82	48 - 123	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*85*		*39 - 135*

Lab Sample ID: LCSD 280-484770/3-A
Matrix: Water
Analysis Batch: 485617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484770

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T			5.00	3.92		ug/L		78	42 - 121	11	30
2,4-D			5.00	4.41		ug/L		88	41 - 124	8	30
2,4-DB			5.00	2.47	J	ug/L		49	35 - 117	2	30
Dalapon			5.00	3.64		ug/L		73	24 - 124	22	30
Dicamba			5.00	4.07		ug/L		81	44 - 114	10	30
Dichlorprop			5.00	4.53		ug/L		91	46 - 117	3	30
Dinoseb			5.00	2.31		ug/L		46	11 - 110	28	30
MCPA			500	408		ug/L		82	37 - 106	3	30
MCPP			500	492		ug/L		98	33 - 131	1	30
Picloram			5.00	2.77		ug/L		55	39 - 109	18	30
Silvex (2,4,5-TP)			5.00	4.28		ug/L		86	48 - 123	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*84*		*39 - 135*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 280-484881/1-A
Matrix: Water
Analysis Batch: 486137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/04/20 15:10	02/18/20 10:43	1
2,4-D	ND		4.0	0.53	ug/L		02/04/20 15:10	02/18/20 10:43	1
2,4-DB	ND		4.0	0.75	ug/L		02/04/20 15:10	02/18/20 10:43	1
Dalapon	ND		2.0	0.91	ug/L		02/04/20 15:10	02/18/20 10:43	1
Dicamba	ND		2.0	0.44	ug/L		02/04/20 15:10	02/18/20 10:43	1
Dichlorprop	ND		4.0	0.65	ug/L		02/04/20 15:10	02/18/20 10:43	1
Dinoseb	ND		1.0	0.45	ug/L		02/04/20 15:10	02/18/20 10:43	1
MCPA	ND		400	48	ug/L		02/04/20 15:10	02/18/20 10:43	1
MCPP	ND		400	33	ug/L		02/04/20 15:10	02/18/20 10:43	1
Picloram	ND		0.50	0.24	ug/L		02/04/20 15:10	02/18/20 10:43	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/04/20 15:10	02/18/20 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*73*		*39 - 135*	*02/04/20 15:10*	*02/18/20 10:43*	*1*

Lab Sample ID: MB 280-484881/1-A
Matrix: Water
Analysis Batch: 486523

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/04/20 15:10	02/25/20 12:13	1
2,4-D	ND		4.0	0.53	ug/L		02/04/20 15:10	02/25/20 12:13	1
2,4-DB	ND		4.0	0.75	ug/L		02/04/20 15:10	02/25/20 12:13	1
Dalapon	ND		2.0	0.91	ug/L		02/04/20 15:10	02/25/20 12:13	1
Dicamba	ND		2.0	0.44	ug/L		02/04/20 15:10	02/25/20 12:13	1
Dichlorprop	ND		4.0	0.65	ug/L		02/04/20 15:10	02/25/20 12:13	1
Dinoseb	ND		1.0	0.45	ug/L		02/04/20 15:10	02/25/20 12:13	1
MCPA	ND		400	48	ug/L		02/04/20 15:10	02/25/20 12:13	1
MCPP	ND		400	33	ug/L		02/04/20 15:10	02/25/20 12:13	1
Picloram	ND		0.50	0.24	ug/L		02/04/20 15:10	02/25/20 12:13	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/04/20 15:10	02/25/20 12:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*76*		*39 - 135*	*02/04/20 15:10*	*02/25/20 12:13*	*1*

Lab Sample ID: LCS 280-484881/2-A
Matrix: Water
Analysis Batch: 486137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	5.00	3.84		ug/L		77	42 - 121
2,4-D	5.00	3.79	J	ug/L		76	41 - 124
2,4-DB	5.00	2.51	J	ug/L		50	35 - 117
Dalapon	5.00	3.67		ug/L		73	24 - 124
Dicamba	5.00	3.96		ug/L		79	44 - 114
Dichlorprop	5.00	4.30		ug/L		86	46 - 117
Dinoseb	5.00	2.03		ug/L		41	11 - 110
MCPA	500	393	J	ug/L		79	37 - 106

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 280-484881/2-A
Matrix: Water
Analysis Batch: 486137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484881

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
MCPP			500	451		ug/L		90	33 - 131		
Picloram			5.00	2.93		ug/L		59	39 - 109		
Silvex (2,4,5-TP)			5.00	4.31		ug/L		86	48 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*80*		*39 - 135*

Lab Sample ID: LCS 280-484881/2-A
Matrix: Water
Analysis Batch: 486523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484881

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			5.00	4.02		ug/L		80	42 - 121		
2,4-D			5.00	4.11		ug/L		82	41 - 124		
2,4-DB			5.00	2.27	J	ug/L		45	35 - 117		
Dalapon			5.00	3.73		ug/L		75	24 - 124		
Dicamba			5.00	4.20		ug/L		84	44 - 114		
Dichlorprop			5.00	4.50		ug/L		90	46 - 117		
Dinoseb			5.00	1.73		ug/L		35	11 - 110		
MCPA			500	416		ug/L		83	37 - 106		
MCPP			500	495		ug/L		99	33 - 131		
Picloram			5.00	2.93		ug/L		59	39 - 109		
Silvex (2,4,5-TP)			5.00	4.58		ug/L		92	48 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*87*		*39 - 135*

Lab Sample ID: LCSD 280-484881/3-A
Matrix: Water
Analysis Batch: 486137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484881

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T			5.00	3.75		ug/L		75	42 - 121	2	30
2,4-D			5.00	3.72	J	ug/L		74	41 - 124	2	30
2,4-DB			5.00	2.40	J	ug/L		48	35 - 117	5	30
Dalapon			5.00	3.48		ug/L		70	24 - 124	5	30
Dicamba			5.00	3.89		ug/L		78	44 - 114	2	30
Dichlorprop			5.00	4.14		ug/L		83	46 - 117	4	30
Dinoseb			5.00	1.89		ug/L		38	11 - 110	7	30
MCPA			500	378	J	ug/L		76	37 - 106	4	30
MCPP			500	433		ug/L		87	33 - 131	4	30
Picloram			5.00	2.87		ug/L		57	39 - 109	2	30
Silvex (2,4,5-TP)			5.00	4.17		ug/L		83	48 - 123	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*76*		*39 - 135*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 280-484881/3-A
Matrix: Water
Analysis Batch: 486523

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484881

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T			5.00	4.02		ug/L		80	42 - 121	0	30
2,4-D			5.00	4.09		ug/L		82	41 - 124	0	30
2,4-DB			5.00	2.28	J	ug/L		46	35 - 117	0	30
Dalapon			5.00	3.62		ug/L		72	24 - 124	3	30
Dicamba			5.00	4.17		ug/L		83	44 - 114	1	30
Dichlorprop			5.00	4.39		ug/L		88	46 - 117	2	30
Dinoseb			5.00	1.70		ug/L		34	11 - 110	2	30
MCPA			500	395	J	ug/L		79	37 - 106	5	30
MCPP			500	464		ug/L		93	33 - 131	7	30
Picloram			5.00	2.95		ug/L		59	39 - 109	0	30
Silvex (2,4,5-TP)			5.00	4.58		ug/L		92	48 - 123	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*81*		*39 - 135*

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

Lab Sample ID: MB 580-321908/1-A
Matrix: Water
Analysis Batch: 322006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321908

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.065	mg/L		02/03/20 16:05	02/04/20 17:05	1
Motor Oil (>C24-C36)	ND		0.35	0.096	mg/L		02/03/20 16:05	02/04/20 17:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*02/03/20 16:05*	*02/04/20 17:05*	*1*

Lab Sample ID: LCS 580-321908/2-A
Matrix: Water
Analysis Batch: 322006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321908

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			2.00	1.55		mg/L		77	50 - 120
Motor Oil (>C24-C36)			2.00	1.59		mg/L		79	64 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*85*		*50 - 150*

Lab Sample ID: LCSD 580-321908/3-A
Matrix: Water
Analysis Batch: 322006

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321908

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			2.00	1.39		mg/L		70	50 - 120	11	26
Motor Oil (>C24-C36)			2.00	1.43		mg/L		72	64 - 120	10	24

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

Lab Sample ID: LCSD 580-321908/3-A
Matrix: Water
Analysis Batch: 322006

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321908

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*74*		*50 - 150*

Lab Sample ID: MB 580-321970/1-A
Matrix: Water
Analysis Batch: 322083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.065	mg/L		02/04/20 11:26	02/05/20 14:08	1
Motor Oil (>C24-C36)	ND		0.35	0.096	mg/L		02/04/20 11:26	02/05/20 14:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*02/04/20 11:26*	*02/05/20 14:08*	*1*

Lab Sample ID: LCS 580-321970/2-A
Matrix: Water
Analysis Batch: 322083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321970

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			2.00	1.66		mg/L		83	50 - 120		
Motor Oil (>C24-C36)			2.00	1.85		mg/L		93	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*74*		*50 - 150*

Lab Sample ID: LCSD 580-321970/3-A
Matrix: Water
Analysis Batch: 322083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321970

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			2.00	1.66		mg/L		83	50 - 120	0	26
Motor Oil (>C24-C36)			2.00	1.89		mg/L		95	64 - 120	2	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*80*		*50 - 150*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-321918/16-A
Matrix: Water
Analysis Batch: 322040

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 321918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0010	mg/L		02/04/20 07:37	02/04/20 14:00	5
Barium	ND		0.0060	0.0011	mg/L		02/04/20 07:37	02/04/20 14:00	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:37	02/04/20 14:00	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:37	02/04/20 14:00	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:37	02/04/20 14:00	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:37	02/04/20 14:00	5

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-321918/16-A
Matrix: Water
Analysis Batch: 322040

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 321918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:37	02/04/20 14:00	5

Lab Sample ID: LCS 580-321918/17-A
Matrix: Water
Analysis Batch: 322040

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 321918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.998		mg/L		100	80 - 120
Barium	1.00	0.993		mg/L		99	80 - 120
Cadmium	1.00	0.977		mg/L		98	80 - 120
Chromium	1.00	0.971		mg/L		97	80 - 120
Lead	1.00	0.963		mg/L		96	80 - 120
Selenium	1.00	0.998		mg/L		100	80 - 120
Silver	1.00	0.975		mg/L		97	80 - 120

Lab Sample ID: LCSD 580-321918/18-A
Matrix: Water
Analysis Batch: 322040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 321918

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.00	1.01		mg/L		101	80 - 120	1	20
Barium	1.00	0.980		mg/L		98	80 - 120	1	20
Cadmium	1.00	0.974		mg/L		97	80 - 120	0	20
Chromium	1.00	0.978		mg/L		98	80 - 120	1	20
Lead	1.00	0.957		mg/L		96	80 - 120	1	20
Selenium	1.00	0.998		mg/L		100	80 - 120	0	20
Silver	1.00	0.956		mg/L		96	80 - 120	2	20

Lab Sample ID: MB 580-321919/16-A
Matrix: Water
Analysis Batch: 322040

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 321919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0010	mg/L		02/04/20 07:55	02/04/20 12:47	5
Barium	ND		0.0060	0.0011	mg/L		02/04/20 07:55	02/04/20 12:47	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 07:55	02/04/20 12:47	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 07:55	02/04/20 12:47	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 07:55	02/04/20 12:47	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 07:55	02/04/20 12:47	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 07:55	02/04/20 12:47	5

Lab Sample ID: LCS 580-321919/17-A
Matrix: Water
Analysis Batch: 322040

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 321919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.03		mg/L		103	80 - 120
Barium	1.00	0.987		mg/L		99	80 - 120
Cadmium	1.00	0.994		mg/L		99	80 - 120
Chromium	1.00	0.997		mg/L		100	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-321919/17-A
Matrix: Water
Analysis Batch: 322040

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 321919

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1.00	0.949		mg/L		95	80 - 120		
Selenium			1.00	1.02		mg/L		102	80 - 120		
Silver			1.00	0.997		mg/L		100	80 - 120		

Lab Sample ID: LCSD 580-321919/18-A
Matrix: Water
Analysis Batch: 322040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 321919

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			1.00	1.02		mg/L		102	80 - 120	1	20
Barium			1.00	1.00		mg/L		100	80 - 120	1	20
Cadmium			1.00	0.958		mg/L		96	80 - 120	4	20
Chromium			1.00	0.990		mg/L		99	80 - 120	1	20
Lead			1.00	0.960		mg/L		96	80 - 120	1	20
Selenium			1.00	0.996		mg/L		100	80 - 120	2	20
Silver			1.00	0.986		mg/L		99	80 - 120	1	20

Lab Sample ID: 580-92451-12 MS
Matrix: Water
Analysis Batch: 322040

Client Sample ID: BH-06-W-16
Prep Type: Dissolved
Prep Batch: 321919

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	0.010		1.00	0.984		mg/L		97	80 - 120		
Barium	0.22		1.00	1.19		mg/L		97	80 - 120		
Cadmium	ND		1.00	0.922		mg/L		92	80 - 120		
Chromium	0.0065		1.00	0.949		mg/L		94	80 - 120		
Lead	0.0053		1.00	0.923		mg/L		92	80 - 120		
Selenium	ND		1.00	0.944		mg/L		94	80 - 120		
Silver	ND		1.00	0.911		mg/L		91	80 - 120		

Lab Sample ID: 580-92451-12 MSD
Matrix: Water
Analysis Batch: 322040

Client Sample ID: BH-06-W-16
Prep Type: Dissolved
Prep Batch: 321919

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.010		1.00	0.987		mg/L		98	80 - 120	0	20
Barium	0.22		1.00	1.28		mg/L		106	80 - 120	8	20
Cadmium	ND		1.00	0.941		mg/L		94	80 - 120	2	20
Chromium	0.0065		1.00	0.952		mg/L		95	80 - 120	0	20
Lead	0.0053		1.00	0.950		mg/L		94	80 - 120	3	20
Selenium	ND		1.00	0.947		mg/L		95	80 - 120	0	20
Silver	ND		1.00	0.946		mg/L		95	80 - 120	4	20

Lab Sample ID: 580-92451-12 DU
Matrix: Water
Analysis Batch: 322040

Client Sample ID: BH-06-W-16
Prep Type: Dissolved
Prep Batch: 321919

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.010		0.0102		mg/L		0.5	20
Barium	0.22		0.220		mg/L		0.2	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-92451-12 DU
Matrix: Water
Analysis Batch: 322040

Client Sample ID: BH-06-W-16
Prep Type: Dissolved
Prep Batch: 321919

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.0065		0.00640		mg/L		0.9	20
Lead	0.0053		0.00532		mg/L		0.3	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-321924/22-A
Matrix: Water
Analysis Batch: 322039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:16	02/04/20 13:00	1

Lab Sample ID: LCS 580-321924/23-A
Matrix: Water
Analysis Batch: 322039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00176		mg/L		88	80 - 120

Lab Sample ID: LCSD 580-321924/24-A
Matrix: Water
Analysis Batch: 322039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321924

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00200	0.00190		mg/L		95	80 - 120	8	20

Lab Sample ID: MB 580-321934/18-A
Matrix: Water
Analysis Batch: 322039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/04/20 09:49	02/04/20 14:03	1

Lab Sample ID: LCS 580-321934/19-A
Matrix: Water
Analysis Batch: 322039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00189		mg/L		94	80 - 120

Lab Sample ID: LCSD 580-321934/20-A
Matrix: Water
Analysis Batch: 322039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321934

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00200	0.00170		mg/L		85	80 - 120	11	20

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 580-92451-14 MS
Matrix: Water
Analysis Batch: 322039

Client Sample ID: BH-08-W-8
Prep Type: Dissolved
Prep Batch: 321934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00200	0.00166		mg/L		83	80 - 120

Lab Sample ID: 580-92451-14 MSD
Matrix: Water
Analysis Batch: 322039

Client Sample ID: BH-08-W-8
Prep Type: Dissolved
Prep Batch: 321934

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00200	0.00167		mg/L		84	80 - 120	1	20

Lab Sample ID: 580-92451-14 DU
Matrix: Water
Analysis Batch: 322039

Client Sample ID: BH-08-W-8
Prep Type: Dissolved
Prep Batch: 321934

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-321971/3
Matrix: Water
Analysis Batch: 321971

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.191	J	0.90	0.14	mg/L			02/03/20 13:31	1
Sulfate	ND		1.2	0.26	mg/L			02/03/20 13:31	1

Lab Sample ID: LCS 580-321971/4
Matrix: Water
Analysis Batch: 321971

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.3		mg/L		103	90 - 110
Sulfate	50.0	49.9		mg/L		100	90 - 110

Lab Sample ID: LCSD 580-321971/5
Matrix: Water
Analysis Batch: 321971

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	51.4		mg/L		103	90 - 110	0	15
Sulfate	50.0	50.0		mg/L		100	90 - 110	0	15

Lab Sample ID: 580-92451-8 MS
Matrix: Water
Analysis Batch: 321971

Client Sample ID: BH-04-W-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20	B	50.0	72.7		mg/L		105	90 - 110
Sulfate	90		50.0	135		mg/L		90	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-92451-8 MSD
Matrix: Water
Analysis Batch: 321971

Client Sample ID: BH-04-W-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	20	B	50.0	72.9		mg/L		105	90 - 110	0	15
Sulfate	90		50.0	135		mg/L		90	90 - 110	0	15

Lab Sample ID: 580-92451-18 MS
Matrix: Water
Analysis Batch: 321971

Client Sample ID: BH-12-W-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	19	B	50.0	71.2		mg/L		105	90 - 110
Sulfate	130	F1	50.0	170	F1	mg/L		77	90 - 110

Lab Sample ID: 580-92451-18 MSD
Matrix: Water
Analysis Batch: 321971

Client Sample ID: BH-12-W-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	19	B	50.0	71.7		mg/L		106	90 - 110	1	15
Sulfate	130	F1	50.0	171	F1	mg/L		79	90 - 110	1	15

Lab Sample ID: MB 580-321972/3
Matrix: Water
Analysis Batch: 321972

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.223	J	0.90	0.14	mg/L			02/04/20 01:25	1
Sulfate	ND		1.2	0.26	mg/L			02/04/20 01:25	1

Lab Sample ID: LCS 580-321972/6
Matrix: Water
Analysis Batch: 321972

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.4		mg/L		103	90 - 110
Sulfate	50.0	49.5		mg/L		99	90 - 110

Lab Sample ID: LCSD 580-321972/7
Matrix: Water
Analysis Batch: 321972

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	51.6		mg/L		103	90 - 110	0	15
Sulfate	50.0	49.6		mg/L		99	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-321912/1-A
Matrix: Water
Analysis Batch: 321913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.50	0.26	mg/L		02/03/20 18:41	02/03/20 18:43	1

Lab Sample ID: LCS 580-321912/2-A
Matrix: Water
Analysis Batch: 321913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	2.00	2.05		mg/L		102	90 - 110

Lab Sample ID: 580-92451-10 MS
Matrix: Water
Analysis Batch: 321913

Client Sample ID: BH-05-W-16
Prep Type: Total/NA
Prep Batch: 321912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	F2 F1	2.00	2.13		mg/L		106	90 - 110

Lab Sample ID: 580-92451-10 MSD
Matrix: Water
Analysis Batch: 321913

Client Sample ID: BH-05-W-16
Prep Type: Total/NA
Prep Batch: 321912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	ND	F2 F1	2.00	2.73	F1 F2	mg/L		136	90 - 110	25	20

Lab Sample ID: 580-92451-10 DU
Matrix: Water
Analysis Batch: 321913

Client Sample ID: BH-05-W-16
Prep Type: Total/NA
Prep Batch: 321912

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia as N	ND	F2 F1	ND		mg/L		NC	20

Lab Sample ID: MB 580-321914/1-A
Matrix: Water
Analysis Batch: 321915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.50	0.26	mg/L		02/03/20 18:43	02/03/20 18:46	1

Lab Sample ID: LCS 580-321914/2-A
Matrix: Water
Analysis Batch: 321915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	2.00	2.03		mg/L		102	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-322500/12
Matrix: Water
Analysis Batch: 322500

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15	0.060	mg/L			02/11/20 14:25	1

Lab Sample ID: LCS 580-322500/13
Matrix: Water
Analysis Batch: 322500

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: LCSD 580-322500/14
Matrix: Water
Analysis Batch: 322500

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	0.999		mg/L		100	90 - 110	3	20

Lab Sample ID: MB 580-322886/12
Matrix: Water
Analysis Batch: 322886

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15	0.060	mg/L			02/15/20 18:06	1

Lab Sample ID: LCS 580-322886/13
Matrix: Water
Analysis Batch: 322886

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: LCSD 580-322886/14
Matrix: Water
Analysis Batch: 322886

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	1.03		mg/L		103	90 - 110	0	20

Lab Sample ID: 580-92451-1 MS
Matrix: Water
Analysis Batch: 322886

Client Sample ID: BH-01-W-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	480		250	732		mg/L		101	90 - 110

Lab Sample ID: 580-92451-1 MSD
Matrix: Water
Analysis Batch: 322886

Client Sample ID: BH-01-W-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	480		250	729		mg/L		99	90 - 110	0	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: 580-92451-15 MS
Matrix: Water
Analysis Batch: 322886

Client Sample ID: BH-09-W-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	140	F1	50.0	182	F1	mg/L		82	90 - 110

Lab Sample ID: 580-92451-15 MSD
Matrix: Water
Analysis Batch: 322886

Client Sample ID: BH-09-W-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	140	F1	50.0	185	F1	mg/L		88	90 - 110	2	20

Lab Sample ID: 580-92451-23 MS
Matrix: Water
Analysis Batch: 322886

Client Sample ID: EqR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.18		0.500	0.704		mg/L		104	90 - 110

Lab Sample ID: 580-92451-23 MSD
Matrix: Water
Analysis Batch: 322886

Client Sample ID: EqR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.18		0.500	0.722		mg/L		108	90 - 110	3	20

Lab Sample ID: 580-92451-1 DU
Matrix: Water
Analysis Batch: 322886

Client Sample ID: BH-01-W-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	480		486		mg/L		1	20

Lab Chronicle

Client: HDR Inc
Job ID: 580-92451-1
Project/Site: Simplot - Sunnyside, WA

Client Sample ID: BH-01-W-8
Lab Sample ID: 580-92451-1
Date Collected: 01/30/20 10:52
Matrix: Water
Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 18:23	T1W	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 17:37	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 15:48	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 12:34	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/04/20 19:58	T1W	TAL SEA
Dissolved	Prep	3005A			321918	02/04/20 07:37	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 14:35	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:29	A1B	TAL SEA
Total/NA	Analysis	300.0		100	321971	02/03/20 14:18	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		100	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		500	322886	02/15/20 18:09	R1K	TAL SEA

Client Sample ID: BH-01-W-16
Lab Sample ID: 580-92451-2
Date Collected: 01/30/20 12:07
Matrix: Water
Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 19:17	T1W	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 18:01	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 11:23	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 13:02	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/04/20 20:20	T1W	TAL SEA
Dissolved	Prep	3005A			321918	02/04/20 07:37	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 14:38	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:32	A1B	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 14:41	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		10	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		1	322500	02/11/20 14:39	R1K	TAL SEA

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-02-W-8

Date Collected: 01/30/20 08:01
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 21:02	T1W	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 18:25	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 11:39	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 13:30	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/04/20 21:03	T1W	TAL SEA
Dissolved	Prep	3005A			321918	02/04/20 07:37	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 14:40	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:34	A1B	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 15:05	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		20	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		1	322500	02/11/20 14:41	R1K	TAL SEA

Client Sample ID: BH-02-W-16

Date Collected: 01/30/20 09:14
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 19:43	T1W	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 19:12	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 11:55	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 13:56	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/04/20 21:25	T1W	TAL SEA
Dissolved	Prep	3005A			321918	02/04/20 07:37	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 14:43	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:36	A1B	TAL SEA
Total/NA	Analysis	300.0		1	321971	02/03/20 15:16	AAC	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 15:51	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		10	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		1	322500	02/11/20 14:42	R1K	TAL SEA

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-03-W-8

Date Collected: 01/29/20 16:17
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321804	01/31/20 16:58	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 19:36	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 12:11	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 14:24	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/04/20 21:46	T1W	TAL SEA
Dissolved	Prep	3005A			321918	02/04/20 07:37	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 14:46	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:38	A1B	TAL SEA
Total/NA	Analysis	300.0		1	321971	02/03/20 16:03	AAC	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 16:15	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		1	322500	02/11/20 14:43	R1K	TAL SEA

Client Sample ID: BH-03-W-16

Date Collected: 01/29/20 17:20
Date Received: 01/31/20 08:30

Lab Sample ID: 580-92451-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321804	01/31/20 17:24	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 20:00	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 16:04	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 15:20	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/04/20 22:08	T1W	TAL SEA
Dissolved	Prep	3005A			321918	02/04/20 07:37	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 14:48	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:41	A1B	TAL SEA
Total/NA	Analysis	300.0		1	321971	02/03/20 16:27	AAC	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 16:38	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		1	322500	02/11/20 14:44	R1K	TAL SEA

Lab Chronicle

Client: HDR Inc
Job ID: 580-92451-1
Project/Site: Simplot - Sunnyside, WA

Client Sample ID: BH-04-W-8
Lab Sample ID: 580-92451-7
Date Collected: 01/29/20 14:34
Matrix: Water
Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 20:10	T1W	TAL SEA
Total/NA	Analysis	8260C	DL	10	322015	02/05/20 17:20	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 20:24	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 12:28	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 15:48	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/04/20 22:29	T1W	TAL SEA
Dissolved	Prep	3005A			321918	02/04/20 07:37	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 14:51	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:43	A1B	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 17:02	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		1	322500	02/11/20 14:45	R1K	TAL SEA

Client Sample ID: BH-04-W-16
Lab Sample ID: 580-92451-8
Date Collected: 01/29/20 15:32
Matrix: Water
Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321804	01/31/20 17:51	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 20:48	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 12:44	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 16:15	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/04/20 22:50	T1W	TAL SEA
Dissolved	Prep	3005A			321918	02/04/20 07:37	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 14:54	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:45	A1B	TAL SEA
Total/NA	Analysis	300.0		1	321971	02/03/20 17:14	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		1	322500	02/11/20 14:46	R1K	TAL SEA

Lab Chronicle

Client: HDR Inc
Job ID: 580-92451-1
Project/Site: Simplot - Sunnyside, WA

Client Sample ID: BH-05-W-8
Lab Sample ID: 580-92451-9
Date Collected: 01/29/20 12:39
Matrix: Water
Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321804	01/31/20 18:17	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 21:12	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 13:00	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 16:43	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/04/20 23:12	T1W	TAL SEA
Dissolved	Prep	3005A			321918	02/04/20 07:37	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 14:57	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:47	A1B	TAL SEA
Total/NA	Analysis	300.0		1	321971	02/03/20 18:12	AAC	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 23:05	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		100	322886	02/15/20 18:14	R1K	TAL SEA

Client Sample ID: BH-05-W-16
Lab Sample ID: 580-92451-10
Date Collected: 01/29/20 13:47
Matrix: Water
Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 18:50	T1W	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 21:36	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 13:16	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 17:09	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/04/20 23:33	T1W	TAL SEA
Dissolved	Prep	3005A			321918	02/04/20 07:37	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 14:59	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:54	A1B	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 18:36	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		20	322886	02/15/20 18:15	R1K	TAL SEA

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-06-W-8

Lab Sample ID: 580-92451-11

Date Collected: 01/29/20 10:39

Matrix: Water

Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 22:22	T1W	TAL SEA
Total/NA	Analysis	8260C	RA	1	322015	02/05/20 13:49	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 22:00	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 16:20	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 17:37	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/04/20 23:55	T1W	TAL SEA
Dissolved	Prep	3005A			321918	02/04/20 07:37	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 14:03	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:56	A1B	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 18:59	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		20	322886	02/15/20 18:16	R1K	TAL SEA

Client Sample ID: BH-06-W-16

Lab Sample ID: 580-92451-12

Date Collected: 01/29/20 11:45

Matrix: Water

Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 20:36	T1W	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 22:25	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 16:37	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486523	02/25/20 13:33	TMC	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/05/20 00:16	T1W	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 12:52	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 13:59	A1B	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 19:22	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		10	322886	02/15/20 18:20	R1K	TAL SEA

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-07-W-8

Lab Sample ID: 580-92451-13

Date Collected: 01/29/20 09:41

Matrix: Water

Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321804	01/31/20 18:44	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 22:49	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 16:53	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 18:33	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/05/20 00:59	T1W	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 13:22	FCW	TAL SEA
Dissolved	Prep	7470A			321924	02/04/20 09:16	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 14:01	A1B	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 19:46	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		100	322886	02/15/20 18:21	R1K	TAL SEA

Client Sample ID: BH-08-W-8

Lab Sample ID: 580-92451-14

Date Collected: 01/29/20 08:46

Matrix: Water

Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321804	01/31/20 19:11	DCV	TAL SEA
Total/NA	Analysis	8260C	DL	10	322601	02/12/20 17:52	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 23:37	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 13:32	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 19:28	AJP	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/05/20 01:21	T1W	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 13:25	FCW	TAL SEA
Dissolved	Prep	7470A			321934	02/04/20 09:49	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 14:10	A1B	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 20:33	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		10	322886	02/15/20 18:22	R1K	TAL SEA

Lab Chronicle

Client: HDR Inc
Job ID: 580-92451-1
Project/Site: Simplot - Sunnyside, WA

Client Sample ID: BH-09-W-8
Lab Sample ID: 580-92451-15
Date Collected: 01/29/20 07:57
Matrix: Water
Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 22:48	T1W	TAL SEA
Total/NA	Analysis	8260C	DL3	100	322015	02/05/20 20:00	DCV	TAL SEA
Total/NA	Analysis	8260C	DL2	50	322015	02/05/20 20:53	DCV	TAL SEA
Total/NA	Analysis	8260C	DL	10	322015	02/05/20 21:45	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/04/20 00:01	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 17:09	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		10	486523	02/25/20 14:00	TMC	TAL DEN
Total/NA	Prep	3510C			321908	02/03/20 16:06	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322006	02/05/20 01:42	T1W	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 13:27	FCW	TAL SEA
Dissolved	Prep	7470A			321934	02/04/20 09:49	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 14:24	A1B	TAL SEA
Total/NA	Analysis	300.0		100	321971	02/03/20 20:44	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		10	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		100	322886	02/15/20 18:23	R1K	TAL SEA

Client Sample ID: BH-10-W-8
Lab Sample ID: 580-92451-16
Date Collected: 01/28/20 17:00
Matrix: Water
Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 21:55	T1W	TAL SEA
Total/NA	Analysis	8260C	DL2	50	322015	02/05/20 20:26	DCV	TAL SEA
Total/NA	Analysis	8260C	DL	10	322015	02/05/20 21:19	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/04/20 00:26	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 13:48	NMI	TAL SPK
Total/NA	Prep	8151A			484770	02/03/20 13:50	AJP	TAL DEN
Total/NA	Analysis	8151A		10	485617	02/12/20 22:07	TMC	TAL DEN
Total/NA	Prep	3510C			321970	02/04/20 11:26	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322083	02/05/20 15:13	TL1	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 13:30	FCW	TAL SEA
Dissolved	Prep	7470A			321934	02/04/20 09:49	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 14:26	A1B	TAL SEA
Total/NA	Analysis	300.0		100	321971	02/03/20 20:56	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		100	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		500	322886	02/15/20 18:27	R1K	TAL SEA

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Client Sample ID: BH-11-W-8

Lab Sample ID: 580-92451-17

Date Collected: 01/28/20 15:45

Matrix: Water

Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321804	01/31/20 19:37	DCV	TAL SEA
Total/NA	Analysis	8260C	DL2	50	322015	02/05/20 18:14	DCV	TAL SEA
Total/NA	Analysis	8260C	DL	10	322015	02/05/20 19:06	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/04/20 02:26	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 17:42	NMI	TAL SPK
Total/NA	Prep	8151A			484770	02/03/20 13:50	AJP	TAL DEN
Total/NA	Analysis	8151A		100	485402	02/11/20 00:22	TMC	TAL DEN
Total/NA	Prep	3510C			321970	02/04/20 11:26	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322083	02/05/20 15:35	TL1	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 13:33	FCW	TAL SEA
Dissolved	Prep	7470A			321934	02/04/20 09:49	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 14:28	A1B	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 21:19	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		2	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		1	322886	02/15/20 18:28	R1K	TAL SEA

Client Sample ID: BH-12-W-12

Lab Sample ID: 580-92451-18

Date Collected: 01/28/20 14:25

Matrix: Water

Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 23:15	T1W	TAL SEA
Total/NA	Analysis	8260C	RA	1	322015	02/05/20 14:15	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/04/20 02:50	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 14:34	NMI	TAL SPK
Total/NA	Prep	8151A			484770	02/03/20 13:50	AJP	TAL DEN
Total/NA	Analysis	8151A		1	484980	02/06/20 14:03	TMC	TAL DEN
Total/NA	Prep	3510C			321970	02/04/20 11:26	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322083	02/05/20 15:57	TL1	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 13:36	FCW	TAL SEA
Dissolved	Prep	7470A			321934	02/04/20 09:49	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 14:30	A1B	TAL SEA
Total/NA	Analysis	300.0		1	321971	02/03/20 21:31	AAC	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/04/20 09:09	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		10	322886	02/15/20 18:29	R1K	TAL SEA

Lab Chronicle

Client: HDR Inc
Job ID: 580-92451-1
Project/Site: Simplot - Sunnyside, WA

Client Sample ID: BH-13-W-8
Lab Sample ID: 580-92451-19
Date Collected: 01/28/20 12:58
Matrix: Water
Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 23:41	T1W	TAL SEA
Total/NA	Analysis	8260C	RA	1	322015	02/05/20 14:42	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/04/20 03:14	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 17:58	NMI	TAL SPK
Total/NA	Prep	8151A			484770	02/03/20 13:50	AJP	TAL DEN
Total/NA	Analysis	8151A		1	484980	02/06/20 14:30	TMC	TAL DEN
Total/NA	Prep	3510C			321970	02/04/20 11:26	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322083	02/05/20 16:19	TL1	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 13:38	FCW	TAL SEA
Dissolved	Prep	7470A			321934	02/04/20 09:49	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 14:33	A1B	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/03/20 22:18	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		10	322886	02/15/20 18:30	R1K	TAL SEA

Client Sample ID: BH-14-W-8
Lab Sample ID: 580-92451-20
Date Collected: 01/28/20 12:07
Matrix: Water
Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/04/20 00:07	T1W	TAL SEA
Total/NA	Analysis	8260C	RA	1	322015	02/05/20 15:08	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/04/20 03:38	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 18:14	NMI	TAL SPK
Total/NA	Prep	8151A			484770	02/03/20 13:50	AJP	TAL DEN
Total/NA	Analysis	8151A		1	484980	02/06/20 14:57	TMC	TAL DEN
Total/NA	Prep	3510C			321970	02/04/20 11:26	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322083	02/05/20 16:40	TL1	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 13:41	FCW	TAL SEA
Dissolved	Prep	7470A			321934	02/04/20 09:49	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 14:35	A1B	TAL SEA
Total/NA	Analysis	300.0		1	321971	02/03/20 22:53	AAC	TAL SEA
Total/NA	Analysis	300.0		10	321971	02/04/20 09:20	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321912	02/03/20 18:41	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321913	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	353.2		10	322886	02/15/20 18:34	R1K	TAL SEA

Client Sample ID: BH-15-W-8

Lab Sample ID: 580-92451-21

Date Collected: 01/28/20 10:51

Matrix: Water

Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321898	02/03/20 21:29	T1W	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/04/20 04:02	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 18:30	NMI	TAL SPK
Total/NA	Prep	8151A			484770	02/03/20 13:50	AJP	TAL DEN
Total/NA	Analysis	8151A		1	484980	02/06/20 15:23	TMC	TAL DEN
Total/NA	Prep	3510C			321970	02/04/20 11:26	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322083	02/05/20 17:02	TL1	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 13:44	FCW	TAL SEA
Dissolved	Prep	7470A			321934	02/04/20 09:49	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 14:37	A1B	TAL SEA
Total/NA	Analysis	300.0		1	321972	02/04/20 02:00	AAC	TAL SEA
Total/NA	Analysis	300.0		10	321972	02/04/20 02:12	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321914	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321915	02/03/20 18:46	AAC	TAL SEA
Total/NA	Analysis	353.2		10	322886	02/15/20 18:35	R1K	TAL SEA

Client Sample ID: BH-16-W-8

Lab Sample ID: 580-92451-22

Date Collected: 01/28/20 09:30

Matrix: Water

Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321804	01/31/20 20:04	DCV	TAL SEA
Total/NA	Analysis	8260C	DL2	50	322015	02/05/20 17:47	DCV	TAL SEA
Total/NA	Analysis	8260C	DL	10	322015	02/05/20 18:40	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/04/20 04:26	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 18:46	NMI	TAL SPK
Total/NA	Prep	8151A			484770	02/03/20 13:50	AJP	TAL DEN
Total/NA	Analysis	8151A		10	485402	02/11/20 00:49	TMC	TAL DEN
Total/NA	Prep	3510C			321970	02/04/20 11:26	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322083	02/05/20 17:24	TL1	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 13:46	FCW	TAL SEA
Dissolved	Prep	7470A			321934	02/04/20 09:49	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 14:39	A1B	TAL SEA
Total/NA	Analysis	300.0		10	321972	02/04/20 02:36	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321914	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321915	02/03/20 18:46	AAC	TAL SEA
Total/NA	Analysis	353.2		1	322886	02/15/20 18:36	R1K	TAL SEA

Lab Chronicle

Client: HDR Inc
Job ID: 580-92451-1
Project/Site: Simplot - Sunnyside, WA

Client Sample ID: EqR
Lab Sample ID: 580-92451-23
Date Collected: 01/29/20 09:51
Matrix: Water
Date Received: 01/31/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321804	01/31/20 16:05	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321896	02/03/20 16:48	PRO	TAL SEA
Total/NA	Prep	8011			26513	02/07/20 11:23	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/25/20 19:02	NMI	TAL SPK
Total/NA	Prep	8151A			484881	02/04/20 15:10	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 20:22	AJP	TAL DEN
Total/NA	Prep	3510C			321970	02/04/20 11:26	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322083	02/05/20 18:08	TL1	TAL SEA
Dissolved	Prep	3005A			321919	02/04/20 07:55	A1B	TAL SEA
Dissolved	Analysis	6020A		5	322040	02/04/20 12:50	FCW	TAL SEA
Dissolved	Prep	7470A			321934	02/04/20 09:49	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322039	02/04/20 14:42	A1B	TAL SEA
Total/NA	Analysis	300.0		1	321972	02/04/20 02:47	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			321914	02/03/20 18:43	AAC	TAL SEA
Total/NA	Analysis	350.1		1	321915	02/03/20 18:46	AAC	TAL SEA
Total/NA	Analysis	353.2		1	322886	02/15/20 18:37	R1K	TAL SEA

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310
TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: HDR Inc
Job ID: 580-92451-1
Project/Site: Simplot - Sunnyside, WA

Laboratory: Eurofins TestAmerica, Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-17-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Chloride
300.0		Water	Sulfate
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Lead
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C583-19	08-05-20

Laboratory: Eurofins TestAmerica, Spokane

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-025	01-07-21
Oregon	NELAP	4137	12-08-20
Washington	State	C569	01-06-21

Sample Summary

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92451-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-92451-1	BH-01-W-8	Water	01/30/20 10:52	01/31/20 08:30	
580-92451-2	BH-01-W-16	Water	01/30/20 12:07	01/31/20 08:30	
580-92451-3	BH-02-W-8	Water	01/30/20 08:01	01/31/20 08:30	
580-92451-4	BH-02-W-16	Water	01/30/20 09:14	01/31/20 08:30	
580-92451-5	BH-03-W-8	Water	01/29/20 16:17	01/31/20 08:30	
580-92451-6	BH-03-W-16	Water	01/29/20 17:20	01/31/20 08:30	
580-92451-7	BH-04-W-8	Water	01/29/20 14:34	01/31/20 08:30	
580-92451-8	BH-04-W-16	Water	01/29/20 15:32	01/31/20 08:30	
580-92451-9	BH-05-W-8	Water	01/29/20 12:39	01/31/20 08:30	
580-92451-10	BH-05-W-16	Water	01/29/20 13:47	01/31/20 08:30	
580-92451-11	BH-06-W-8	Water	01/29/20 10:39	01/31/20 08:30	
580-92451-12	BH-06-W-16	Water	01/29/20 11:45	01/31/20 08:30	
580-92451-13	BH-07-W-8	Water	01/29/20 09:41	01/31/20 08:30	
580-92451-14	BH-08-W-8	Water	01/29/20 08:46	01/31/20 08:30	
580-92451-15	BH-09-W-8	Water	01/29/20 07:57	01/31/20 08:30	
580-92451-16	BH-10-W-8	Water	01/28/20 17:00	01/31/20 08:30	
580-92451-17	BH-11-W-8	Water	01/28/20 15:45	01/31/20 08:30	
580-92451-18	BH-12-W-12	Water	01/28/20 14:25	01/31/20 08:30	
580-92451-19	BH-13-W-8	Water	01/28/20 12:58	01/31/20 08:30	
580-92451-20	BH-14-W-8	Water	01/28/20 12:07	01/31/20 08:30	
580-92451-21	BH-15-W-8	Water	01/28/20 10:51	01/31/20 08:30	
580-92451-22	BH-16-W-8	Water	01/28/20 09:30	01/31/20 08:30	
580-92451-23	EqR	Water	01/29/20 09:51	01/31/20 08:30	

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Alyssa Veatch	Lab PM: Walker, Elaine M	Carrier Tracking No(s):	COC No: 580-37380-11956.1
Client Contact: Alyssa Veatch	Phone: 208-387-7033	E-Mail: elaine.walker@testamericainc.com		Page: Page 1 of 4
Company: HDR Inc				Job #: 92451
Address: 412 E. Parkcenter Blvd. Suite 100	Due Date Requested:			
City: Boise	TAT Requested (days):			
State, Zip: ID, 83706-6659				
Phone: 208-387-7033(Tel)	PO #: Purchase Order Requested			
Email: alyssa.veatch@hdrinc.com	WO #:			
Project Name: Simplot - Sunnyside, WA	Project #: 58014777			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_LL, NWTPH_Gx	8011 - (MOD) EDB and DBCP Only	353.2 - Nitrogen, Nitrate-Nitrite	350.1 - Local Method	NWTPH_Dx - Northwest - DRO/RRO	8151A - Herbicide (Aqueous)	6020A, 7470A	300.0_28D - (MOD) Local Method							Total Number of containers	Special Instructions/Note:
				Preservation Code:				A	R	S	S	A	N	D	N								
-1	BH-01-W-8	1/30/2020	1052	G	Water			X	X	X	X	X	X	X	X								*6020A & 7470A
	BH-01-W-16	1/30/2020	1207	G	Water																		were field filtered
-3	BH-02-W-8	1/30/2020	0801	G	Water																		
	BH-02-W-16	1/30/2020	0914	G	Water																		*did not recieve
-5	BH-03-W-8	1/29/2020	1617	G	Water																		enough custody
	BH-03-W-16	1/29/2020	1720	G	Water																		seals.
-7	BH-04-W-8	1/29/2020	1484	G	Water																		
	BH-04-W-16	1/29/2020	1532	G	Water																		
-9	BH-05-W-8	1/29/2020	1239	G	Water																		
	BH-05-W-16	1/29/2020	1347	G	Water																		
-11	BH-06-W-8	1/29/2020	1039	G	Water																		

580-92451 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1-21-2020 13:15	EF/TA		1-31-20 0930	TASEA
2		1-30-2020 16:00	HDR			
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: Alyssa Veatch	Lab PM: Walker, Elaine M	Carrier Tracking No(s):	COC No: 580-37380-11956.1
Client Contact: Alyssa Veatch	Phone: 208-387-7033	E-Mail: elaine.walker@testamericainc.com		Page: Page 1 of 4
Company: HDR Inc				Job #:

Address: 412 E. Parkcenter Blvd. Suite 100	Due Date Requested:
City: Boise	TAT Requested (days):
State, Zip: ID, 83706-6659	
Phone: 208-387-7033(Tel)	PO #: Purchase Order Requested
Email: alyssa.veatch@hdrinc.com	WO #:
Project Name: Simplot - Sunnyside, WA	Project #: 58014777
Site:	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_LL, NWTPH_Gx	8011 - (MOD) EDB and DBCP Only	353.2 - Nitrogen, Nitrate-Nitrite	350.1 - Local Method	NWTPH_Dx - Northwest - DRO/RRO	8151A - Herbicide (Aqueous)	6020A, 7470A	300.0_28D - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	R	S	S	A	N	D	N		
BH-06-W-16	1/29/2020	1145	G	Water			X	X	X	X	X	X	X	X		6020A/7470A
-13 ~~BH-05-W~~ AV BH-07-W-8	1/29/2020	0941	G	Water												was field filtered
BH-08-W-8	1/29/2020	0846	G	Water												
-15 BH-09-W-8	1/29/2020	0757	G	Water												did not recieve
BH-10-W-8	1/28/2020	1700	G	Water												enough custody
-17 BH-11-W-8	1/28/2020	1545	G	Water												seals (only got
BH-12-W-12	1/28/2020	1425	G	Water												10 for 19 coolers)
-19 BH-13-W-8	1/28/2020	1258	G	Water												
BH-14-W-8	1/28/2020	1207	G	Water												
-21 BH-15-W-8	1/28/2020	1051	G	Water												
BH-16-W-8	1/28/2020	0930	G	Water												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1-29-20 13:15	Company: EFTA	Received by:	Date/Time: 1-31-20 0930	Company: TA SEA
Relinquished by:	Date/Time: 1-30-2020 16:00	Company: HDR	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Alyssa Veatch	Lab PM: Walker, Elaine M	Carrier Tracking No(s):	COC No: 580-37380-11956.1
Client Contact: Alyssa Veatch	Phone: 208-387-7033	E-Mail: elaine.walker@testamericainc.com		Page: Page 1 of 4
Company: HDR Inc				Job #:

Address: 412 E. Parkcenter Blvd. Suite 100	Due Date Requested:
City: Boise	TAT Requested (days):
State, Zip: ID, 83706-6659	
Phone: 208-387-7033(Tel)	PO #: Purchase Order Requested
Email: alyssa.veatch@hdrinc.com	WO #:
Project Name: Simplot - Sunnyside, WA	Project #: 58014777
Site:	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_LL, NWTPH_Gx	8011 - (MOD) EDB and DBCP Only	353.2 - Nitrogen, Nitrate-Nitrite	350.1 - Local Method	NWTPH_Dx - Northwest - DRO/RRO	8151A - Herbicide (Aqueous)	6020A, 7470A	300.0_28D - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	R	S	S	A	N	D	N		
-23 EqR	1/29/2020	0951	G	Water			X	X	X	X	X	X	X	X		6020A/7470A was field filtered +did not recieve enough custody seals
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1-21-2020 13:15	EF/TA	[signature]	1-31-20 0930	TASEA
Relinquished by: Alyssa Veatch [signature]	1-30-2020 16:00	HDR	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Therm. ID: A1 Cor: 1.2 ° Unc: 1.7 °
Cooler Dsc: LgBl
Packing: Bub
Cust. Seal: Yes / No
Blue Ice, Wet, Dry, None
FedEx: P.O
UPS:
Lab Cour:
Other:

Therm. ID: 7 Cor: -1.2 ° Unc: -0.9 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx: PO
UPS:
Lab Cour:
Other:

Therm. ID: IR7 Cor: 0.2 ° Unc: 0.5 °
Cooler Dsc: Lg Bl.
Packing: Bub
Cust. Seal: Yes / No
Blue Ice, Wet, Dry, None
FedEx: P.O
UPS:
Lab Cour:
Other:

Therm. ID: IR6 Cor: 0.3 ° Unc: -0.1 °
Cooler Dsc: Lg Blue
Packing: Bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour:
Other:

Therm. ID: IR6 Cor: 2.3 ° Unc: 1.9 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes / No
Blue Ice, Wet, Dry, None
FedEx: P.O
UPS:
Lab Cour:
Other:

Therm. ID: A2 Cor: 2.6 ° Unc: 2.8 °
Cooler Dsc: Lg Blue
Packing: bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour:
Other:

Therm. ID: IR6 Cor: 0.0 ° Unc: -0.4 °
Cooler Dsc: Lg Blue
Packing: Bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour:
Other:

Therm. ID: A2 Cor: 2.6 ° Unc: 2.8 °
Cooler Dsc: Lg Blue
Packing: bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour:
Other:

Therm. ID: IR7 Cor: 0.8 ° Unc: 1.1 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes / No
Blue Ice, Wet, Dry, None
FedEx: P.O
UPS:
Lab Cour:
Other:

Therm. ID: IR7 Cor: 0.1 ° Unc: 0.4 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes / No
Blue Ice, Wet, Dry, None
FedEx: P.O
UPS:
Lab Cour:
Other:

Therm. ID: IR6 Cor: 3.0 ° Unc: 2.6 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour:
Other:

Therm. ID: IR7 Cor: 0.6 ° Unc: 0.7 °
Cooler Dsc: Lg Red
Packing: Bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour:
Other:

Therm. ID: IR7 Cor: 0.0 ° Unc: 0.3 °
Cooler Dsc: LR
Packing: Bub
Cust. Seal: Yes / No
Blue Ice, Wet, Dry, None
FedEx: P.O.
UPS:
Lab Cour:
Other:

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Walker, Elaine M	Carrier Tracking No(s):	COC No: 580-74263.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: elaine.walker@testamericainc.com	State of Origin: Washington	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Washington		Job #: 580-92451-1
Address: 4955 Yarrow Street,	Due Date Requested: 2/12/2020	**Analysis Requested**		**Preservation Codes:**
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Simplot - Sunnyside, WA	Project #: 58014777			
Site:	SSOW#:			Other:

Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - othe

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP Herbicide (Aqueous)	Total Number of containers	Special Instructi
			Preservation Code:						
BH-01-W-8 (580-92451-1)	1/30/20	10:52 Pacific		Water			X	2	
BH-02-W-8 (580-92451-3)	1/30/20	08:01 Pacific		Water			X	2	
BH-02-W-16 (580-92451-4)	1/30/20	09:14 Pacific		Water			X	2	
BH-03-W-8 (580-92451-5)	1/29/20	16:17 Pacific		Water			X	2	
BH-03-W-16 (580-92451-6)	1/29/20	17:20 Pacific		Water			X	2	
BH-04-W-8 (580-92451-7)	1/29/20	14:34 Pacific		Water			X	2	
BH-04-W-16 (580-92451-8)	1/29/20	15:32 Pacific		Water			X	2	
BH-05-W-8 (580-92451-9)	1/29/20	12:39 Pacific		Water			X	2	
BH-05-W-16 (580-92451-10)	1/29/20	13:47 Pacific		Water			X	2	

580-92451 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
Relinquished by: [signature]	Date/Time: 1-31-20	Company: TASea	Received by: [signature]	Date/Time: 02/01/20 0935	Company: ETATSN
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: -0.7, -0.3, -0.4, 1.4, IR9, cf0.9, RW 02/01/20		

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Walker, Elaine M	Carrier Tracking No(s):	COC No: 580-74263.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: elaine.walker@testamericainc.com	State of Origin: Washington	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Washington		Job #: 580-92451-1
Address: 4955 Yarrow Street,	Due Date Requested: 2/12/2020	**Analysis Requested**		**Preservation Codes:**
City: Arvada	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
State, Zip: CO, 80002				M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Simplot - Sunnyside, WA	Project #: 58014777			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP Herbicide (Aqueous)	Total Number of containers	Special Instructions/Note:
				Preservation Code:					
BH-06-W-8 (580-92451-11)	1/29/20	10:39 Pacific		Water			X	2	
BH-06-W-16 (580-92451-12)	1/29/20	11:45 Pacific		Water			X	2	
BH-07-W-8 (580-92451-13)	1/29/20	09:41 Pacific		Water			X	2	
BH-08-W-8 (580-92451-14)	1/29/20	08:46 Pacific		Water			X	2	
BH-09-W-8 (580-92451-15)	1/29/20	07:57 Pacific		Water			X	2	
BH-10-W-8 (580-92451-16)	1/28/20	17:00 Pacific		Water			X	2	
BH-11-W-8 (580-92451-17)	1/28/20	15:45 Pacific		Water			X	2	
BH-12-W-12 (580-92451-18)	1/28/20	14:25 Pacific		Water			X	2	
BH-13-W-8 (580-92451-19)	1/28/20	12:58 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

Possible Hazard Identification		*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*	
Unconfirmed		☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ____ Months*	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1-31-20	TASea	[signature]	02/01/20 0935	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Walker, Elaine M	Carrier Tracking No(s):	COC No: 580-74263.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: elaine.walker@testamericainc.com	State of Origin: Washington	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Washington		Job #: 580-92451-1
Address: 4955 Yarrow Street,	Due Date Requested: 2/12/2020	Analysis Requested		Preservation Codes:
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Simplot - Sunnyside, WA	Project #: 58014777			
Site:	SSOW#:			Other:

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP Herbicide (Aqueous)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH-14-W-8 (580-92451-20)	1/28/20	12:07 Pacific		Water			X	2	
BH-15-W-8 (580-92451-21)	1/28/20	10:51 Pacific		Water			X	2	
BH-16-W-8 (580-92451-22)	1/28/20	09:30 Pacific		Water			X	2	
EqR (580-92451-23)	1/29/20	09:51 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
Relinquished by: [signature]	Date/Time: 1-31-20	Company: TAEa	Received by: [signature]	Date/Time: 02/01/20 0935	Company: ETADFA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 580-92451-1

Login Number: 92451
List Number: 1
Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

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

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 580-92451-1

Login Number: 92451
List Number: 2
Creator: Petunin, Peter

List Source: Eurofins TestAmerica, Denver
List Creation: 02/01/20 12:00 PM

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

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 580-92451-1

Login Number: 92451
List Number: 4
Creator: Irons, Nicole M

List Source: Eurofins TestAmerica, Spokane
List Creation: 02/25/20 12:38 PM

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

Walker, M Elaine

From: Veatch, Alyssa <Alyssa.Veatch@hdrinc.com>
Sent: Wednesday, February 19, 2020 9:44 PM
To: Walker, M Elaine
Cc: Murray, Michael (Boise)
Subject: Re: 8011 for your Simplot - Sunnyside, WA project

EXTERNAL EMAIL*

Hi Elaine,

Go ahead and send them to Spokane for analysis.

Thanks,
Alyssa

On Feb 19, 2020 13:27, "Walker, M Elaine" <M.Elaine.Walker@testamericainc.com> wrote:

Good afternoon,

I have two jobs for your Sunnyside project that need 8011 EDB still. However, our instrument has gone down and we do not have a good idea on when it will be operational. The samples have been extracted already, but I would like to send the extracts to our Spokane lab to do the analyses.

The two jobs are 580-92451-1 (23 waters) and 580-92515-1 (9 waters).

The Spokane laboratory does have certification for this method. Do I have your approval to send these out? It will assure that your reports will get finished sooner as they are already past the due dates. Their reporting limit is 2x higher than ours so I need to confirm that this is acceptable. Our limit is 0.01 ug/L; theirs would be twice that.

Thanks,

M. Elaine Walker

Project Manager

Eurofins TestAmerica

5755 8th Street East

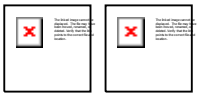
Tacoma, WA 98424

USA

Phone: 253-248-4972

E-mail: M.Elaine.Walker@testamericainc.com

www.EurofinsUS.com | www.TestAmericainc.com



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ANALYTICAL REPORT

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

Laboratory Job ID: 580-92515-1
Client Project/Site: Simplot - Sunnyside, WA

For:
HDR Inc
412 E. Parkcenter Blvd.
Suite 100
Boise, Idaho 83706-6659

Attn: Michael Murray

M. Elaine Walker

Authorized for release by:
2/27/2020 1:36:06 PM

Elaine Walker, Project Manager II
(253)248-4972
elaine.walker@testamericainc.com

Table of Contents

Case Narrative

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Job ID: 580-92515-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-92515-1

Receipt
Nine samples were received on 2/4/2020 7:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.0º C, 2.5º C, 3.4º C, 3.5º C and 3.9º C.

GC/MS VOA
Method 8260C: Surrogate recoveries for 1,2-Dichloroethane-d4 (Surr) fell high outside the control limits for sample MW-3 (580-92515-3). The reported analyte is not associated with the affect surrogate.

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

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

GC Semi VOA
Method NWTPH-Dx: The method blank for preparation batch 580-322169 and 580-322169 and analytical batch 580-322343 contained Motor Oil (>C24-C36) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

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

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

General Chemistry
Method 350.1: The matrix spike (MS) recovery for preparation batch 580-322206 and analytical batch 580-322207 was outside control limits for Ammonia. Sample matrix interference and/or non-homogeneity are suspected because the MSD and associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 353.2: The matrix spike (MS) and matrix spike duplicate (MSD) recoveries for analytical batch 580-323323 were outside control limits. Non-homogeneity or matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 353.2: The following samples were diluted due to the nature of the sample matrix: (580-92515-1 MS) and (580-92515-1 MSD). Because of this dilution, the matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-1
Date Collected: 01/31/20 09:08
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/04/20 23:26	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/04/20 23:26	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/04/20 23:26	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/04/20 23:26	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/04/20 23:26	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/04/20 23:26	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/04/20 23:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/04/20 23:26	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/04/20 23:26	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/04/20 23:26	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			02/12/20 03:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/04/20 23:26	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 23:26	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			02/04/20 23:26	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/04/20 23:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/04/20 23:26	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 23:26	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/04/20 23:26	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 23:26	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/04/20 23:26	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/04/20 23:26	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/04/20 23:26	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			02/04/20 23:26	1
Benzene	ND		0.20	0.030	ug/L			02/04/20 23:26	1
Bromobenzene	ND		0.20	0.035	ug/L			02/04/20 23:26	1
Bromoform	ND		0.50	0.16	ug/L			02/04/20 23:26	1
Bromomethane	ND		0.50	0.16	ug/L			02/04/20 23:26	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/04/20 23:26	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/04/20 23:26	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/04/20 23:26	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/04/20 23:26	1
Chloroethane	ND		0.50	0.096	ug/L			02/04/20 23:26	1
Chloroform	ND		0.20	0.030	ug/L			02/04/20 23:26	1
Chloromethane	ND		0.50	0.15	ug/L			02/04/20 23:26	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/04/20 23:26	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/04/20 23:26	1
Dibromomethane	ND		0.20	0.062	ug/L			02/04/20 23:26	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/04/20 23:26	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/04/20 23:26	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/04/20 23:26	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/04/20 23:26	1
Isopropylbenzene	ND		1.0	0.19	ug/L			02/04/20 23:26	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/04/20 23:26	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/04/20 23:26	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/04/20 23:26	1
Naphthalene	ND		1.0	0.22	ug/L			02/04/20 23:26	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/04/20 23:26	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/04/20 23:26	1
o-Xylene	ND		0.50	0.15	ug/L			02/04/20 23:26	1

Client Sample ID: MW-1
Date Collected: 01/31/20 09:08
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/04/20 23:26	1
Styrene	ND		0.50	0.19	ug/L			02/04/20 23:26	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/04/20 23:26	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/04/20 23:26	1
Toluene	ND		0.20	0.050	ug/L			02/04/20 23:26	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/04/20 23:26	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/04/20 23:26	1
Trichloroethene	ND		0.20	0.066	ug/L			02/04/20 23:26	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/04/20 23:26	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/04/20 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*02/04/20 23:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*80 - 120*		*02/12/20 03:02*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/04/20 23:26*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/12/20 03:02*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*02/04/20 23:26*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*02/12/20 03:02*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/04/20 23:26*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/12/20 03:02*	*1*
Trifluorotoluene (Surr)	*106*		*80 - 120*		*02/04/20 23:26*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 120*		*02/12/20 03:02*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*		*02/04/20 16:23*	*1*
Trifluorotoluene (Surr)	*98*		*50 - 150*		*02/04/20 16:23*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0056	ug/L		02/10/20 12:22	02/26/20 14:50	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.95	0.43	ug/L		02/07/20 15:25	02/18/20 06:38	1
2,4-D	ND		3.8	0.50	ug/L		02/07/20 15:25	02/18/20 06:38	1
2,4-DB	ND		3.8	0.71	ug/L		02/07/20 15:25	02/18/20 06:38	1
Dalapon	ND		1.9	0.87	ug/L		02/07/20 15:25	02/18/20 06:38	1
Dicamba	ND		1.9	0.41	ug/L		02/07/20 15:25	02/18/20 06:38	1
Dichlorprop	ND		3.8	0.62	ug/L		02/07/20 15:25	02/18/20 06:38	1
Dinoseb	ND		0.95	0.43	ug/L		02/07/20 15:25	02/18/20 06:38	1
MCPA	ND		380	45	ug/L		02/07/20 15:25	02/18/20 06:38	1
MCPP	ND		380	31	ug/L		02/07/20 15:25	02/18/20 06:38	1
Picloram	ND		0.48	0.23	ug/L		02/07/20 15:25	02/18/20 06:38	1
Silvex (2,4,5-TP)	ND		0.95	0.16	ug/L		02/07/20 15:25	02/18/20 06:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*79*		*39 - 135*	*02/07/20 15:25*	*02/18/20 06:38*	*1*

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-1

Date Collected: 01/31/20 09:08
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.12	0.070	mg/L		02/06/20 11:45	02/10/20 17:23	1
Motor Oil (>C24-C36)	**0.24**	**J B**	0.38	0.10	mg/L		02/06/20 11:45	02/10/20 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*02/06/20 11:45*	*02/10/20 17:23*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.036**		0.0050	0.0010	mg/L		02/04/20 14:36	02/05/20 13:02	5
Barium	**0.10**		0.0060	0.0011	mg/L		02/04/20 14:36	02/05/20 13:02	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 14:36	02/05/20 13:02	5
Chromium	**0.0011**	**J**	0.0040	0.00087	mg/L		02/04/20 14:36	02/05/20 13:02	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 14:36	02/05/20 13:02	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 14:36	02/05/20 13:02	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 14:36	02/05/20 13:02	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/05/20 08:10	02/05/20 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42**		0.90	0.14	mg/L			02/05/20 15:06	1
Sulfate	**160**		12	2.6	mg/L			02/06/20 09:38	10
Ammonia as N	ND		0.50	0.26	mg/L		02/06/20 14:40	02/06/20 14:44	1
Nitrate Nitrite as N	**14**		7.5	3.0	mg/L			02/20/20 17:26	50

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-2
Date Collected: 01/31/20 09:58
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/04/20 23:53	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/04/20 23:53	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/04/20 23:53	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/04/20 23:53	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/04/20 23:53	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/04/20 23:53	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/04/20 23:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/04/20 23:53	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/04/20 23:53	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/04/20 23:53	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			02/12/20 03:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/04/20 23:53	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 23:53	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			02/04/20 23:53	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/04/20 23:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/04/20 23:53	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 23:53	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/04/20 23:53	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 23:53	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/04/20 23:53	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/04/20 23:53	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/04/20 23:53	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			02/04/20 23:53	1
Benzene	ND		0.20	0.030	ug/L			02/04/20 23:53	1
Bromobenzene	ND		0.20	0.035	ug/L			02/04/20 23:53	1
Bromoform	ND		0.50	0.16	ug/L			02/04/20 23:53	1
Bromomethane	ND		0.50	0.16	ug/L			02/04/20 23:53	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/04/20 23:53	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/04/20 23:53	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/04/20 23:53	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/04/20 23:53	1
Chloroethane	ND		0.50	0.096	ug/L			02/04/20 23:53	1
Chloroform	ND		0.20	0.030	ug/L			02/04/20 23:53	1
Chloromethane	ND		0.50	0.15	ug/L			02/04/20 23:53	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/04/20 23:53	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/04/20 23:53	1
Dibromomethane	ND		0.20	0.062	ug/L			02/04/20 23:53	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/04/20 23:53	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/04/20 23:53	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/04/20 23:53	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/04/20 23:53	1
Isopropylbenzene	ND		1.0	0.19	ug/L			02/04/20 23:53	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/04/20 23:53	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/04/20 23:53	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/04/20 23:53	1
Naphthalene	ND		1.0	0.22	ug/L			02/04/20 23:53	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/04/20 23:53	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/04/20 23:53	1
o-Xylene	ND		0.50	0.15	ug/L			02/04/20 23:53	1

Client Sample ID: MW-2
Date Collected: 01/31/20 09:58
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/04/20 23:53	1
Styrene	ND		0.50	0.19	ug/L			02/04/20 23:53	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/04/20 23:53	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/04/20 23:53	1
Toluene	ND		0.20	0.050	ug/L			02/04/20 23:53	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/04/20 23:53	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/04/20 23:53	1
Trichloroethene	ND		0.20	0.066	ug/L			02/04/20 23:53	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/04/20 23:53	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/04/20 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*02/04/20 23:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*80 - 120*		*02/12/20 03:29*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/04/20 23:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/12/20 03:29*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/04/20 23:53*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*02/12/20 03:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/04/20 23:53*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/12/20 03:29*	*1*
Trifluorotoluene (Surr)	*107*		*80 - 120*		*02/04/20 23:53*	*1*
Trifluorotoluene (Surr)	*96*		*80 - 120*		*02/12/20 03:29*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*		*02/04/20 16:47*	*1*
Trifluorotoluene (Surr)	*111*		*50 - 150*		*02/04/20 16:47*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.022	0.0056	ug/L		02/10/20 12:22	02/26/20 15:06	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/07/20 15:25	02/18/20 07:05	1
2,4-D	ND		4.0	0.53	ug/L		02/07/20 15:25	02/18/20 07:05	1
2,4-DB	ND		4.0	0.75	ug/L		02/07/20 15:25	02/18/20 07:05	1
Dalapon	ND		2.0	0.92	ug/L		02/07/20 15:25	02/18/20 07:05	1
Dicamba	ND		2.0	0.44	ug/L		02/07/20 15:25	02/18/20 07:05	1
Dichlorprop	ND		4.0	0.66	ug/L		02/07/20 15:25	02/18/20 07:05	1
Dinoseb	ND		1.0	0.45	ug/L		02/07/20 15:25	02/18/20 07:05	1
MCPA	ND		400	48	ug/L		02/07/20 15:25	02/18/20 07:05	1
MCPP	ND		400	33	ug/L		02/07/20 15:25	02/18/20 07:05	1
Picloram	ND		0.51	0.24	ug/L		02/07/20 15:25	02/18/20 07:05	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/07/20 15:25	02/18/20 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*74*		*39 - 135*	*02/07/20 15:25*	*02/18/20 07:05*	*1*

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-2

Date Collected: 01/31/20 09:58
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.12	0.069	mg/L		02/06/20 11:45	02/10/20 18:06	1
Motor Oil (>C24-C36)	**0.18**	**J B**	0.37	0.10	mg/L		02/06/20 11:45	02/10/20 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*02/06/20 11:45*	*02/10/20 18:06*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.053**		0.0050	0.0010	mg/L		02/04/20 14:36	02/05/20 13:31	5
Barium	**0.048**		0.0060	0.0011	mg/L		02/04/20 14:36	02/05/20 13:31	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 14:36	02/05/20 13:31	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 14:36	02/05/20 13:31	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 14:36	02/05/20 13:31	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 14:36	02/05/20 13:31	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 14:36	02/05/20 13:31	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/05/20 08:10	02/05/20 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44**		0.90	0.14	mg/L			02/05/20 15:18	1
Sulfate	**200**		12	2.6	mg/L			02/06/20 09:50	10
Ammonia as N	ND		0.50	0.26	mg/L		02/06/20 14:40	02/06/20 14:44	1
Nitrate Nitrite as N	**2.8**	**J**	3.0	1.2	mg/L			02/20/20 18:44	20

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-3
Date Collected: 01/31/20 11:03
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/05/20 00:20	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/05/20 00:20	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/05/20 00:20	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/05/20 00:20	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/05/20 00:20	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/05/20 00:20	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/05/20 00:20	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/05/20 00:20	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/05/20 00:20	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/05/20 00:20	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			02/12/20 03:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/05/20 00:20	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 00:20	1
1,2-Dichloroethane	**0.092**	**J**	0.20	0.043	ug/L			02/05/20 00:20	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/05/20 00:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/05/20 00:20	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 00:20	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/05/20 00:20	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 00:20	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/05/20 00:20	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/05/20 00:20	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/05/20 00:20	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			02/05/20 00:20	1
Benzene	ND		0.20	0.030	ug/L			02/05/20 00:20	1
Bromobenzene	ND		0.20	0.035	ug/L			02/05/20 00:20	1
Bromoform	ND		0.50	0.16	ug/L			02/05/20 00:20	1
Bromomethane	ND		0.50	0.16	ug/L			02/05/20 00:20	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/05/20 00:20	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/05/20 00:20	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/05/20 00:20	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/05/20 00:20	1
Chloroethane	ND		0.50	0.096	ug/L			02/05/20 00:20	1
Chloroform	ND		0.20	0.030	ug/L			02/05/20 00:20	1
Chloromethane	**0.18**	**J**	0.50	0.15	ug/L			02/05/20 00:20	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/05/20 00:20	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/05/20 00:20	1
Dibromomethane	ND		0.20	0.062	ug/L			02/05/20 00:20	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/05/20 00:20	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/05/20 00:20	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/05/20 00:20	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/05/20 00:20	1
Isopropylbenzene	ND		1.0	0.19	ug/L			02/05/20 00:20	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/05/20 00:20	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/05/20 00:20	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/05/20 00:20	1
Naphthalene	ND		1.0	0.22	ug/L			02/05/20 00:20	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/05/20 00:20	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/05/20 00:20	1
o-Xylene	ND		0.50	0.15	ug/L			02/05/20 00:20	1

Client Sample ID: MW-3
Date Collected: 01/31/20 11:03
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/05/20 00:20	1
Styrene	ND		0.50	0.19	ug/L			02/05/20 00:20	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/05/20 00:20	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/05/20 00:20	1
Toluene	ND		0.20	0.050	ug/L			02/05/20 00:20	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/05/20 00:20	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/05/20 00:20	1
Trichloroethene	ND		0.20	0.066	ug/L			02/05/20 00:20	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/05/20 00:20	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/05/20 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*02/05/20 00:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*	*X*	*80 - 120*		*02/12/20 03:55*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/05/20 00:20*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/12/20 03:55*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/05/20 00:20*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*02/12/20 03:55*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*02/05/20 00:20*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/12/20 03:55*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*02/05/20 00:20*	*1*
Trifluorotoluene (Surr)	*93*		*80 - 120*		*02/12/20 03:55*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*50 - 150*		*02/04/20 17:12*	*1*
Trifluorotoluene (Surr)	*92*		*50 - 150*		*02/04/20 17:12*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.022	0.0056	ug/L		02/10/20 12:22	02/26/20 15:23	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/07/20 15:25	02/18/20 07:31	1
2,4-D	ND		4.0	0.53	ug/L		02/07/20 15:25	02/18/20 07:31	1
2,4-DB	ND		4.0	0.76	ug/L		02/07/20 15:25	02/18/20 07:31	1
Dalapon	ND		2.0	0.92	ug/L		02/07/20 15:25	02/18/20 07:31	1
Dicamba	ND		2.0	0.44	ug/L		02/07/20 15:25	02/18/20 07:31	1
Dichlorprop	ND		4.0	0.66	ug/L		02/07/20 15:25	02/18/20 07:31	1
Dinoseb	ND		1.0	0.45	ug/L		02/07/20 15:25	02/18/20 07:31	1
MCPA	ND		400	48	ug/L		02/07/20 15:25	02/18/20 07:31	1
MCPP	ND		400	33	ug/L		02/07/20 15:25	02/18/20 07:31	1
Picloram	ND		0.51	0.24	ug/L		02/07/20 15:25	02/18/20 07:31	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/07/20 15:25	02/18/20 07:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*77*		*39 - 135*	*02/07/20 15:25*	*02/18/20 07:31*	*1*

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-3

Date Collected: 01/31/20 11:03
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.20		0.11	0.068	mg/L		02/06/20 11:45	02/10/20 18:28	1
Motor Oil (>C24-C36)	0.26	J B	0.37	0.10	mg/L		02/06/20 11:45	02/10/20 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*02/06/20 11:45*	*02/10/20 18:28*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.0050	0.0010	mg/L		02/04/20 14:36	02/05/20 13:34	5
Barium	0.032		0.0060	0.0011	mg/L		02/04/20 14:36	02/05/20 13:34	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 14:36	02/05/20 13:34	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 14:36	02/05/20 13:34	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 14:36	02/05/20 13:34	5
Selenium	0.018	J	0.040	0.010	mg/L		02/04/20 14:36	02/05/20 13:34	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 14:36	02/05/20 13:34	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/05/20 08:10	02/05/20 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71		0.90	0.14	mg/L			02/05/20 15:30	1
Sulfate	410		12	2.6	mg/L			02/06/20 10:02	10
Ammonia as N	ND		0.50	0.26	mg/L		02/06/20 14:40	02/06/20 14:44	1
Nitrate Nitrite as N	8.3		3.0	1.2	mg/L			02/20/20 18:45	20

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-4
Date Collected: 01/31/20 12:21
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/05/20 00:46	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/05/20 00:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/05/20 00:46	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/05/20 00:46	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/05/20 00:46	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/05/20 00:46	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/05/20 00:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/05/20 00:46	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/05/20 00:46	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/05/20 00:46	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			02/12/20 04:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/05/20 00:46	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 00:46	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			02/05/20 00:46	1
1,2-Dichloropropane	**69**		0.20	0.060	ug/L			02/05/20 00:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/05/20 00:46	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 00:46	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/05/20 00:46	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 00:46	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/05/20 00:46	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/05/20 00:46	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/05/20 00:46	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			02/05/20 00:46	1
Benzene	ND		0.20	0.030	ug/L			02/05/20 00:46	1
Bromobenzene	ND		0.20	0.035	ug/L			02/05/20 00:46	1
Bromoform	ND		0.50	0.16	ug/L			02/05/20 00:46	1
Bromomethane	ND		0.50	0.16	ug/L			02/05/20 00:46	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/05/20 00:46	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/05/20 00:46	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/05/20 00:46	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/05/20 00:46	1
Chloroethane	ND		0.50	0.096	ug/L			02/05/20 00:46	1
Chloroform	ND		0.20	0.030	ug/L			02/05/20 00:46	1
Chloromethane	ND		0.50	0.15	ug/L			02/05/20 00:46	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/05/20 00:46	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/05/20 00:46	1
Dibromomethane	ND		0.20	0.062	ug/L			02/05/20 00:46	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/05/20 00:46	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/05/20 00:46	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/05/20 00:46	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/05/20 00:46	1
Isopropylbenzene	ND		1.0	0.19	ug/L			02/05/20 00:46	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/05/20 00:46	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/05/20 00:46	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/05/20 00:46	1
Naphthalene	ND		1.0	0.22	ug/L			02/05/20 00:46	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/05/20 00:46	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/05/20 00:46	1
o-Xylene	ND		0.50	0.15	ug/L			02/05/20 00:46	1

Client Sample ID: MW-4
Date Collected: 01/31/20 12:21
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/05/20 00:46	1
Styrene	ND		0.50	0.19	ug/L			02/05/20 00:46	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/05/20 00:46	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/05/20 00:46	1
Toluene	ND		0.20	0.050	ug/L			02/05/20 00:46	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/05/20 00:46	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/05/20 00:46	1
Trichloroethene	ND		0.20	0.066	ug/L			02/05/20 00:46	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/05/20 00:46	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/05/20 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*02/05/20 00:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*80 - 120*		*02/12/20 04:22*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/05/20 00:46*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/12/20 04:22*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/05/20 00:46*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*02/12/20 04:22*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/05/20 00:46*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/12/20 04:22*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*02/05/20 00:46*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*02/12/20 04:22*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*50 - 150*		*02/04/20 17:36*	*1*
Trifluorotoluene (Surr)	*111*		*50 - 150*		*02/04/20 17:36*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0056	ug/L		02/10/20 12:22	02/26/20 15:39	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.47	ug/L		02/07/20 15:25	02/18/20 07:58	1
2,4-D	ND		4.1	0.54	ug/L		02/07/20 15:25	02/18/20 07:58	1
2,4-DB	ND		4.1	0.77	ug/L		02/07/20 15:25	02/18/20 07:58	1
Dalapon	ND		2.1	0.94	ug/L		02/07/20 15:25	02/18/20 07:58	1
Dicamba	ND		2.1	0.45	ug/L		02/07/20 15:25	02/18/20 07:58	1
Dichlorprop	ND		4.1	0.67	ug/L		02/07/20 15:25	02/18/20 07:58	1
Dinoseb	ND		1.0	0.46	ug/L		02/07/20 15:25	02/18/20 07:58	1
MCPA	ND		410	49	ug/L		02/07/20 15:25	02/18/20 07:58	1
MCPP	ND		410	34	ug/L		02/07/20 15:25	02/18/20 07:58	1
Picloram	ND		0.51	0.25	ug/L		02/07/20 15:25	02/18/20 07:58	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/07/20 15:25	02/18/20 07:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*76*		*39 - 135*	*02/07/20 15:25*	*02/18/20 07:58*	*1*

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-4

Date Collected: 01/31/20 12:21
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.12	0.069	mg/L		02/06/20 11:45	02/10/20 18:50	1
Motor Oil (>C24-C36)	**0.19**	**J B**	0.37	0.10	mg/L		02/06/20 11:45	02/10/20 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*02/06/20 11:45*	*02/10/20 18:50*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.028**		0.0050	0.0010	mg/L		02/04/20 14:36	02/05/20 13:37	5
Barium	**0.056**		0.0060	0.0011	mg/L		02/04/20 14:36	02/05/20 13:37	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 14:36	02/05/20 13:37	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 14:36	02/05/20 13:37	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 14:36	02/05/20 13:37	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 14:36	02/05/20 13:37	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 14:36	02/05/20 13:37	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/05/20 08:10	02/05/20 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64**		0.90	0.14	mg/L			02/05/20 16:05	1
Sulfate	**190**		12	2.6	mg/L			02/05/20 16:17	10
Ammonia as N	ND		0.50	0.26	mg/L		02/06/20 14:40	02/06/20 14:44	1
Nitrate Nitrite as N	**37**		30	12	mg/L			02/20/20 17:33	200

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-5R
Date Collected: 01/31/20 13:14
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/05/20 01:13	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/05/20 01:13	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/05/20 01:13	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/05/20 01:13	1
1,1-Dichloroethane	**0.029**	**J**	0.20	0.025	ug/L			02/05/20 01:13	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/05/20 01:13	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/05/20 01:13	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/05/20 01:13	1
1,2,3-Trichloropropane	**0.27**		0.20	0.050	ug/L			02/05/20 01:13	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/05/20 01:13	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			02/12/20 04:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/05/20 01:13	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 01:13	1
1,2-Dichloroethane	**2.6**		0.20	0.043	ug/L			02/05/20 01:13	1
1,2-Dichloropropane	**0.17**	**J**	0.20	0.060	ug/L			02/05/20 01:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/05/20 01:13	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 01:13	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/05/20 01:13	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 01:13	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/05/20 01:13	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/05/20 01:13	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/05/20 01:13	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			02/05/20 01:13	1
Benzene	ND		0.20	0.030	ug/L			02/05/20 01:13	1
Bromobenzene	ND		0.20	0.035	ug/L			02/05/20 01:13	1
Bromoform	ND		0.50	0.16	ug/L			02/05/20 01:13	1
Bromomethane	ND		0.50	0.16	ug/L			02/05/20 01:13	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/05/20 01:13	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/05/20 01:13	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/05/20 01:13	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/05/20 01:13	1
Chloroethane	ND		0.50	0.096	ug/L			02/05/20 01:13	1
Chloroform	ND		0.20	0.030	ug/L			02/05/20 01:13	1
Chloromethane	ND		0.50	0.15	ug/L			02/05/20 01:13	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/05/20 01:13	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/05/20 01:13	1
Dibromomethane	ND		0.20	0.062	ug/L			02/05/20 01:13	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/05/20 01:13	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/05/20 01:13	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/05/20 01:13	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/05/20 01:13	1
Isopropylbenzene	ND		1.0	0.19	ug/L			02/05/20 01:13	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/05/20 01:13	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/05/20 01:13	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/05/20 01:13	1
Naphthalene	ND		1.0	0.22	ug/L			02/05/20 01:13	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/05/20 01:13	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/05/20 01:13	1
o-Xylene	ND		0.50	0.15	ug/L			02/05/20 01:13	1

Client Sample ID: MW-5R
Date Collected: 01/31/20 13:14
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/05/20 01:13	1
Styrene	ND		0.50	0.19	ug/L			02/05/20 01:13	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/05/20 01:13	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/05/20 01:13	1
Toluene	ND		0.20	0.050	ug/L			02/05/20 01:13	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/05/20 01:13	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/05/20 01:13	1
Trichloroethene	ND		0.20	0.066	ug/L			02/05/20 01:13	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/05/20 01:13	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/05/20 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*02/05/20 01:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*02/12/20 04:48*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/05/20 01:13*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/12/20 04:48*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/05/20 01:13*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*02/12/20 04:48*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/05/20 01:13*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/12/20 04:48*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*02/05/20 01:13*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 120*		*02/12/20 04:48*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*50 - 150*		*02/04/20 18:00*	*1*
Trifluorotoluene (Surr)	*99*		*50 - 150*		*02/04/20 18:00*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0056	ug/L		02/10/20 12:22	02/26/20 15:55	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.47	ug/L		02/07/20 15:25	02/18/20 08:25	1
2,4-D	ND		4.1	0.54	ug/L		02/07/20 15:25	02/18/20 08:25	1
2,4-DB	ND		4.1	0.77	ug/L		02/07/20 15:25	02/18/20 08:25	1
Dalapon	ND		2.1	0.94	ug/L		02/07/20 15:25	02/18/20 08:25	1
Dicamba	ND		2.1	0.45	ug/L		02/07/20 15:25	02/18/20 08:25	1
Dichlorprop	ND		4.1	0.67	ug/L		02/07/20 15:25	02/18/20 08:25	1
Dinoseb	ND		1.0	0.46	ug/L		02/07/20 15:25	02/18/20 08:25	1
MCPA	ND		410	49	ug/L		02/07/20 15:25	02/18/20 08:25	1
MCPP	ND		410	34	ug/L		02/07/20 15:25	02/18/20 08:25	1
Picloram	ND		0.52	0.25	ug/L		02/07/20 15:25	02/18/20 08:25	1
Silvex (2,4,5-TP)	ND		1.0	0.18	ug/L		02/07/20 15:25	02/18/20 08:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*73*		*39 - 135*	*02/07/20 15:25*	*02/18/20 08:25*	*1*

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-5R

Date Collected: 01/31/20 13:14
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.12	0.070	mg/L		02/06/20 11:45	02/10/20 19:11	1
Motor Oil (>C24-C36)	**0.21**	**J B**	0.38	0.10	mg/L		02/06/20 11:45	02/10/20 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*02/06/20 11:45*	*02/10/20 19:11*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.063**		0.0050	0.0010	mg/L		02/04/20 14:36	02/05/20 13:39	5
Barium	**0.035**		0.0060	0.0011	mg/L		02/04/20 14:36	02/05/20 13:39	5
Cadmium	**0.00062**	**J**	0.0040	0.00050	mg/L		02/04/20 14:36	02/05/20 13:39	5
Chromium	**0.0011**	**J**	0.0040	0.00087	mg/L		02/04/20 14:36	02/05/20 13:39	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 14:36	02/05/20 13:39	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 14:36	02/05/20 13:39	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 14:36	02/05/20 13:39	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/05/20 08:10	02/05/20 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88**		0.90	0.14	mg/L			02/05/20 16:28	1
Sulfate	**290**		12	2.6	mg/L			02/05/20 16:40	10
Ammonia as N	ND		0.50	0.26	mg/L		02/06/20 14:40	02/06/20 14:44	1
Nitrate Nitrite as N	**10**	**J**	15	6.0	mg/L			02/20/20 17:40	100

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-6
Date Collected: 01/31/20 15:21
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/05/20 01:40	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/05/20 01:40	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/05/20 01:40	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/05/20 01:40	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/05/20 01:40	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/05/20 01:40	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/05/20 01:40	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/05/20 01:40	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/05/20 01:40	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/05/20 01:40	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			02/12/20 05:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/05/20 01:40	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 01:40	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			02/05/20 01:40	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/05/20 01:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/05/20 01:40	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 01:40	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/05/20 01:40	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 01:40	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/05/20 01:40	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/05/20 01:40	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/05/20 01:40	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			02/05/20 01:40	1
Benzene	ND		0.20	0.030	ug/L			02/05/20 01:40	1
Bromobenzene	ND		0.20	0.035	ug/L			02/05/20 01:40	1
Bromoform	ND		0.50	0.16	ug/L			02/05/20 01:40	1
Bromomethane	ND		0.50	0.16	ug/L			02/05/20 01:40	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/05/20 01:40	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/05/20 01:40	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/05/20 01:40	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/05/20 01:40	1
Chloroethane	ND		0.50	0.096	ug/L			02/05/20 01:40	1
Chloroform	ND		0.20	0.030	ug/L			02/05/20 01:40	1
Chloromethane	ND		0.50	0.15	ug/L			02/05/20 01:40	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/05/20 01:40	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/05/20 01:40	1
Dibromomethane	ND		0.20	0.062	ug/L			02/05/20 01:40	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/05/20 01:40	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/05/20 01:40	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/05/20 01:40	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/05/20 01:40	1
Isopropylbenzene	ND		1.0	0.19	ug/L			02/05/20 01:40	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/05/20 01:40	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/05/20 01:40	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/05/20 01:40	1
Naphthalene	ND		1.0	0.22	ug/L			02/05/20 01:40	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/05/20 01:40	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/05/20 01:40	1
o-Xylene	ND		0.50	0.15	ug/L			02/05/20 01:40	1

Client Sample ID: MW-6

Date Collected: 01/31/20 15:21
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/05/20 01:40	1
Styrene	ND		0.50	0.19	ug/L			02/05/20 01:40	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/05/20 01:40	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/05/20 01:40	1
Toluene	ND		0.20	0.050	ug/L			02/05/20 01:40	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/05/20 01:40	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/05/20 01:40	1
Trichloroethene	ND		0.20	0.066	ug/L			02/05/20 01:40	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/05/20 01:40	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/05/20 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*02/05/20 01:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*80 - 120*		*02/12/20 05:15*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/05/20 01:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/12/20 05:15*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*02/05/20 01:40*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*02/12/20 05:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/05/20 01:40*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/12/20 05:15*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*02/05/20 01:40*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 120*		*02/12/20 05:15*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*		*02/04/20 18:24*	*1*
Trifluorotoluene (Surr)	*93*		*50 - 150*		*02/04/20 18:24*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.022	0.0056	ug/L		02/10/20 12:22	02/26/20 16:11	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.96	0.44	ug/L		02/07/20 15:25	02/18/20 08:52	1
2,4-D	ND		3.8	0.50	ug/L		02/07/20 15:25	02/18/20 08:52	1
2,4-DB	ND		3.8	0.71	ug/L		02/07/20 15:25	02/18/20 08:52	1
Dalapon	ND		1.9	0.87	ug/L		02/07/20 15:25	02/18/20 08:52	1
Dicamba	ND		1.9	0.42	ug/L		02/07/20 15:25	02/18/20 08:52	1
Dichlorprop	ND		3.8	0.62	ug/L		02/07/20 15:25	02/18/20 08:52	1
Dinoseb	ND		0.96	0.43	ug/L		02/07/20 15:25	02/18/20 08:52	1
MCPA	ND		380	45	ug/L		02/07/20 15:25	02/18/20 08:52	1
MCPP	ND		380	32	ug/L		02/07/20 15:25	02/18/20 08:52	1
Picloram	ND		0.48	0.23	ug/L		02/07/20 15:25	02/18/20 08:52	1
Silvex (2,4,5-TP)	ND		0.96	0.16	ug/L		02/07/20 15:25	02/18/20 08:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*74*		*39 - 135*	*02/07/20 15:25*	*02/18/20 08:52*	*1*

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-6

Date Collected: 01/31/20 15:21
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.068	mg/L		02/06/20 11:45	02/10/20 19:33	1
Motor Oil (>C24-C36)	**0.17**	**J B**	0.37	0.10	mg/L		02/06/20 11:45	02/10/20 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*02/06/20 11:45*	*02/10/20 19:33*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.018**		0.0050	0.0010	mg/L		02/04/20 14:36	02/05/20 13:42	5
Barium	**0.059**		0.0060	0.0011	mg/L		02/04/20 14:36	02/05/20 13:42	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 14:36	02/05/20 13:42	5
Chromium	**0.0042**		0.0040	0.00087	mg/L		02/04/20 14:36	02/05/20 13:42	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 14:36	02/05/20 13:42	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 14:36	02/05/20 13:42	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 14:36	02/05/20 13:42	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/05/20 08:10	02/05/20 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12**		0.90	0.14	mg/L			02/05/20 16:52	1
Sulfate	**38**		1.2	0.26	mg/L			02/05/20 16:52	1
Ammonia as N	**1.1**		0.50	0.26	mg/L		02/06/20 14:40	02/06/20 14:44	1
Nitrate Nitrite as N	**2.5**	**J**	3.0	1.2	mg/L			02/20/20 18:46	20

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-7

Date Collected: 01/31/20 14:18
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/05/20 02:06	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/05/20 02:06	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/05/20 02:06	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/05/20 02:06	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/05/20 02:06	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/05/20 02:06	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/05/20 02:06	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/05/20 02:06	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/05/20 02:06	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/05/20 02:06	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			02/12/20 05:41	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/05/20 02:06	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 02:06	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			02/05/20 02:06	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/05/20 02:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/05/20 02:06	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 02:06	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/05/20 02:06	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 02:06	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/05/20 02:06	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/05/20 02:06	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/05/20 02:06	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			02/05/20 02:06	1
Benzene	ND		0.20	0.030	ug/L			02/05/20 02:06	1
Bromobenzene	ND		0.20	0.035	ug/L			02/05/20 02:06	1
Bromoform	ND		0.50	0.16	ug/L			02/05/20 02:06	1
Bromomethane	ND		0.50	0.16	ug/L			02/05/20 02:06	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/05/20 02:06	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/05/20 02:06	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/05/20 02:06	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/05/20 02:06	1
Chloroethane	ND		0.50	0.096	ug/L			02/05/20 02:06	1
Chloroform	ND		0.20	0.030	ug/L			02/05/20 02:06	1
Chloromethane	ND		0.50	0.15	ug/L			02/05/20 02:06	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/05/20 02:06	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/05/20 02:06	1
Dibromomethane	ND		0.20	0.062	ug/L			02/05/20 02:06	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/05/20 02:06	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/05/20 02:06	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/05/20 02:06	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/05/20 02:06	1
Isopropylbenzene	ND		1.0	0.19	ug/L			02/05/20 02:06	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/05/20 02:06	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/05/20 02:06	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/05/20 02:06	1
Naphthalene	ND		1.0	0.22	ug/L			02/05/20 02:06	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/05/20 02:06	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/05/20 02:06	1
o-Xylene	ND		0.50	0.15	ug/L			02/05/20 02:06	1

Client Sample ID: MW-7
Date Collected: 01/31/20 14:18
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/05/20 02:06	1
Styrene	ND		0.50	0.19	ug/L			02/05/20 02:06	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/05/20 02:06	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/05/20 02:06	1
Toluene	ND		0.20	0.050	ug/L			02/05/20 02:06	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/05/20 02:06	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/05/20 02:06	1
Trichloroethene	ND		0.20	0.066	ug/L			02/05/20 02:06	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/05/20 02:06	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/05/20 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*02/05/20 02:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*80 - 120*		*02/12/20 05:41*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/05/20 02:06*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/12/20 05:41*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*02/05/20 02:06*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*02/12/20 05:41*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/05/20 02:06*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/12/20 05:41*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*02/05/20 02:06*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 120*		*02/12/20 05:41*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*50 - 150*		*02/04/20 18:48*	*1*
Trifluorotoluene (Surr)	*90*		*50 - 150*		*02/04/20 18:48*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.022	0.0056	ug/L		02/13/20 12:30	02/26/20 02:48	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/07/20 15:25	02/18/20 09:20	1
2,4-D	ND		4.1	0.53	ug/L		02/07/20 15:25	02/18/20 09:20	1
2,4-DB	ND		4.1	0.76	ug/L		02/07/20 15:25	02/18/20 09:20	1
Dalapon	ND		2.0	0.93	ug/L		02/07/20 15:25	02/18/20 09:20	1
Dicamba	ND		2.0	0.44	ug/L		02/07/20 15:25	02/18/20 09:20	1
Dichlorprop	ND		4.1	0.66	ug/L		02/07/20 15:25	02/18/20 09:20	1
Dinoseb	ND		1.0	0.46	ug/L		02/07/20 15:25	02/18/20 09:20	1
MCPA	ND		410	48	ug/L		02/07/20 15:25	02/18/20 09:20	1
MCPP	ND		410	34	ug/L		02/07/20 15:25	02/18/20 09:20	1
Picloram	ND		0.51	0.24	ug/L		02/07/20 15:25	02/18/20 09:20	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/07/20 15:25	02/18/20 09:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*39 - 135*	*02/07/20 15:25*	*02/18/20 09:20*	*1*

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-7

Date Collected: 01/31/20 14:18
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.067	mg/L		02/06/20 11:45	02/10/20 19:54	1
Motor Oil (>C24-C36)	**0.16**	**J B**	0.36	0.10	mg/L		02/06/20 11:45	02/10/20 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*02/06/20 11:45*	*02/10/20 19:54*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0098**		0.0050	0.0010	mg/L		02/04/20 14:36	02/05/20 13:45	5
Barium	**0.066**		0.0060	0.0011	mg/L		02/04/20 14:36	02/05/20 13:45	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 14:36	02/05/20 13:45	5
Chromium	**0.0033**	**J**	0.0040	0.00087	mg/L		02/04/20 14:36	02/05/20 13:45	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 14:36	02/05/20 13:45	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 14:36	02/05/20 13:45	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 14:36	02/05/20 13:45	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/05/20 08:10	02/05/20 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		0.90	0.14	mg/L			02/05/20 17:03	1
Sulfate	**35**		1.2	0.26	mg/L			02/05/20 17:03	1
Ammonia as N	ND		0.50	0.26	mg/L		02/06/20 14:40	02/06/20 14:44	1
Nitrate Nitrite as N	**2.1**	**J**	3.0	1.2	mg/L			02/20/20 18:47	20

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-8

Date Collected: 01/31/20 08:15
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/05/20 02:33	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/05/20 02:33	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/05/20 02:33	1
1,1,2-Trichloroethane	**0.073**	**J**	0.20	0.070	ug/L			02/05/20 02:33	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/05/20 02:33	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/05/20 02:33	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/05/20 02:33	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/05/20 02:33	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/05/20 02:33	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/05/20 02:33	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			02/12/20 06:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/05/20 02:33	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 02:33	1
1,2-Dichloroethane	**0.044**	**J**	0.20	0.043	ug/L			02/05/20 02:33	1
1,2-Dichloropropane	**76**		0.20	0.060	ug/L			02/05/20 02:33	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/05/20 02:33	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 02:33	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/05/20 02:33	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/05/20 02:33	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/05/20 02:33	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/05/20 02:33	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/05/20 02:33	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			02/05/20 02:33	1
Benzene	ND		0.20	0.030	ug/L			02/05/20 02:33	1
Bromobenzene	ND		0.20	0.035	ug/L			02/05/20 02:33	1
Bromoform	ND		0.50	0.16	ug/L			02/05/20 02:33	1
Bromomethane	ND		0.50	0.16	ug/L			02/05/20 02:33	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/05/20 02:33	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/05/20 02:33	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/05/20 02:33	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/05/20 02:33	1
Chloroethane	ND		0.50	0.096	ug/L			02/05/20 02:33	1
Chloroform	ND		0.20	0.030	ug/L			02/05/20 02:33	1
Chloromethane	ND		0.50	0.15	ug/L			02/05/20 02:33	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/05/20 02:33	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/05/20 02:33	1
Dibromomethane	ND		0.20	0.062	ug/L			02/05/20 02:33	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/05/20 02:33	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/05/20 02:33	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/05/20 02:33	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/05/20 02:33	1
Isopropylbenzene	ND		1.0	0.19	ug/L			02/05/20 02:33	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/05/20 02:33	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/05/20 02:33	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/05/20 02:33	1
Naphthalene	ND		1.0	0.22	ug/L			02/05/20 02:33	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/05/20 02:33	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/05/20 02:33	1
o-Xylene	ND		0.50	0.15	ug/L			02/05/20 02:33	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-8
Date Collected: 01/31/20 08:15
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/05/20 02:33	1
Styrene	ND		0.50	0.19	ug/L			02/05/20 02:33	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/05/20 02:33	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/05/20 02:33	1
Toluene	ND		0.20	0.050	ug/L			02/05/20 02:33	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/05/20 02:33	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/05/20 02:33	1
Trichloroethene	ND		0.20	0.066	ug/L			02/05/20 02:33	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/05/20 02:33	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/05/20 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*02/05/20 02:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*80 - 120*		*02/12/20 06:08*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/05/20 02:33*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/12/20 06:08*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*02/05/20 02:33*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*02/12/20 06:08*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/05/20 02:33*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/12/20 06:08*	*1*
Trifluorotoluene (Surr)	*107*		*80 - 120*		*02/05/20 02:33*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 120*		*02/12/20 06:08*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*50 - 150*		*02/04/20 19:12*	*1*
Trifluorotoluene (Surr)	*95*		*50 - 150*		*02/04/20 19:12*	*1*

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.022	0.0056	ug/L		02/13/20 12:30	02/26/20 03:04	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/07/20 15:25	02/18/20 10:15	1
2,4-D	ND		4.0	0.53	ug/L		02/07/20 15:25	02/18/20 10:15	1
2,4-DB	ND		4.0	0.75	ug/L		02/07/20 15:25	02/18/20 10:15	1
Dalapon	ND		2.0	0.91	ug/L		02/07/20 15:25	02/18/20 10:15	1
Dicamba	ND		2.0	0.44	ug/L		02/07/20 15:25	02/18/20 10:15	1
Dichlorprop	ND		4.0	0.65	ug/L		02/07/20 15:25	02/18/20 10:15	1
Dinoseb	ND		1.0	0.45	ug/L		02/07/20 15:25	02/18/20 10:15	1
MCPA	ND		400	48	ug/L		02/07/20 15:25	02/18/20 10:15	1
MCPP	ND		400	33	ug/L		02/07/20 15:25	02/18/20 10:15	1
Picloram	ND		0.50	0.24	ug/L		02/07/20 15:25	02/18/20 10:15	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/07/20 15:25	02/18/20 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*78*		*39 - 135*	*02/07/20 15:25*	*02/18/20 10:15*	*1*

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: MW-8

Date Collected: 01/31/20 08:15
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.12	0.069	mg/L		02/06/20 11:45	02/10/20 20:16	1
Motor Oil (>C24-C36)	**0.20**	**J B**	0.37	0.10	mg/L		02/06/20 11:45	02/10/20 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*02/06/20 11:45*	*02/10/20 20:16*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.026**		0.0050	0.0010	mg/L		02/04/20 14:36	02/05/20 13:47	5
Barium	**0.051**		0.0060	0.0011	mg/L		02/04/20 14:36	02/05/20 13:47	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 14:36	02/05/20 13:47	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 14:36	02/05/20 13:47	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 14:36	02/05/20 13:47	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 14:36	02/05/20 13:47	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 14:36	02/05/20 13:47	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/05/20 08:10	02/05/20 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57**		0.90	0.14	mg/L			02/05/20 17:15	1
Sulfate	**190**		12	2.6	mg/L			02/05/20 17:27	10
Ammonia as N	ND	F1	0.50	0.26	mg/L		02/06/20 14:40	02/06/20 14:44	1
Nitrate Nitrite as N	**41**		15	6.0	mg/L			02/20/20 17:43	100

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: Trip Blank
Date Collected: 01/31/20 00:01
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/04/20 22:59	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/04/20 22:59	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/04/20 22:59	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/04/20 22:59	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/04/20 22:59	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/04/20 22:59	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/04/20 22:59	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/04/20 22:59	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/04/20 22:59	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/04/20 22:59	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			02/12/20 00:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/04/20 22:59	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 22:59	1
1,2-Dichloroethane	**0.045**	**J**	0.20	0.043	ug/L			02/04/20 22:59	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/04/20 22:59	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/04/20 22:59	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 22:59	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/04/20 22:59	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 22:59	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/04/20 22:59	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/04/20 22:59	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/04/20 22:59	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			02/04/20 22:59	1
Benzene	ND		0.20	0.030	ug/L			02/04/20 22:59	1
Bromobenzene	ND		0.20	0.035	ug/L			02/04/20 22:59	1
Bromoform	ND		0.50	0.16	ug/L			02/04/20 22:59	1
Bromomethane	ND		0.50	0.16	ug/L			02/04/20 22:59	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/04/20 22:59	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/04/20 22:59	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/04/20 22:59	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/04/20 22:59	1
Chloroethane	ND		0.50	0.096	ug/L			02/04/20 22:59	1
Chloroform	ND		0.20	0.030	ug/L			02/04/20 22:59	1
Chloromethane	ND		0.50	0.15	ug/L			02/04/20 22:59	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/04/20 22:59	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/04/20 22:59	1
Dibromomethane	ND		0.20	0.062	ug/L			02/04/20 22:59	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/04/20 22:59	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/04/20 22:59	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/04/20 22:59	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/04/20 22:59	1
Isopropylbenzene	ND		1.0	0.19	ug/L			02/04/20 22:59	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/04/20 22:59	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/04/20 22:59	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/04/20 22:59	1
Naphthalene	ND		1.0	0.22	ug/L			02/04/20 22:59	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/04/20 22:59	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/04/20 22:59	1
o-Xylene	ND		0.50	0.15	ug/L			02/04/20 22:59	1

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Client Sample ID: Trip Blank

Date Collected: 01/31/20 00:01
Date Received: 02/04/20 07:45

Lab Sample ID: 580-92515-9

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/04/20 22:59	1
Styrene	ND		0.50	0.19	ug/L			02/04/20 22:59	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/04/20 22:59	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/04/20 22:59	1
Toluene	ND		0.20	0.050	ug/L			02/04/20 22:59	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/04/20 22:59	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/04/20 22:59	1
Trichloroethene	ND		0.20	0.066	ug/L			02/04/20 22:59	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/04/20 22:59	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/04/20 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*02/04/20 22:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*80 - 120*		*02/12/20 00:50*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/04/20 22:59*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/12/20 00:50*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*02/04/20 22:59*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*02/12/20 00:50*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/04/20 22:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/12/20 00:50*	*1*
Trifluorotoluene (Surr)	*107*		*80 - 120*		*02/04/20 22:59*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 120*		*02/12/20 00:50*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*50 - 150*		*02/04/20 19:36*	*1*
Trifluorotoluene (Surr)	*103*		*50 - 150*		*02/04/20 19:36*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-321997/9
Matrix: Water
Analysis Batch: 321997

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			02/04/20 22:32	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			02/04/20 22:32	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			02/04/20 22:32	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			02/04/20 22:32	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			02/04/20 22:32	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			02/04/20 22:32	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			02/04/20 22:32	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			02/04/20 22:32	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			02/04/20 22:32	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			02/04/20 22:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			02/04/20 22:32	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 22:32	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			02/04/20 22:32	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/04/20 22:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			02/04/20 22:32	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 22:32	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			02/04/20 22:32	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			02/04/20 22:32	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			02/04/20 22:32	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			02/04/20 22:32	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			02/04/20 22:32	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			02/04/20 22:32	1
Benzene	ND		0.20	0.030	ug/L			02/04/20 22:32	1
Bromobenzene	ND		0.20	0.035	ug/L			02/04/20 22:32	1
Bromoform	ND		0.50	0.16	ug/L			02/04/20 22:32	1
Bromomethane	ND		0.50	0.16	ug/L			02/04/20 22:32	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			02/04/20 22:32	1
Chlorobenzene	ND		0.20	0.025	ug/L			02/04/20 22:32	1
Chlorobromomethane	ND		0.20	0.025	ug/L			02/04/20 22:32	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			02/04/20 22:32	1
Chloroethane	ND		0.50	0.096	ug/L			02/04/20 22:32	1
Chloroform	ND		0.20	0.030	ug/L			02/04/20 22:32	1
Chloromethane	ND		0.50	0.15	ug/L			02/04/20 22:32	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			02/04/20 22:32	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			02/04/20 22:32	1
Dibromomethane	ND		0.20	0.062	ug/L			02/04/20 22:32	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			02/04/20 22:32	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			02/04/20 22:32	1
Ethylbenzene	ND		0.20	0.030	ug/L			02/04/20 22:32	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			02/04/20 22:32	1
Isopropylbenzene	ND		1.0	0.19	ug/L			02/04/20 22:32	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			02/04/20 22:32	1
Methylene Chloride	ND		5.0	0.74	ug/L			02/04/20 22:32	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			02/04/20 22:32	1
Naphthalene	ND		1.0	0.22	ug/L			02/04/20 22:32	1
n-Butylbenzene	ND		0.50	0.080	ug/L			02/04/20 22:32	1
N-Propylbenzene	ND		0.30	0.091	ug/L			02/04/20 22:32	1
o-Xylene	ND		0.50	0.15	ug/L			02/04/20 22:32	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-321997/9
Matrix: Water
Analysis Batch: 321997

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.17	ug/L			02/04/20 22:32	1
Styrene	ND		0.50	0.19	ug/L			02/04/20 22:32	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			02/04/20 22:32	1
Tetrachloroethene	ND		0.50	0.084	ug/L			02/04/20 22:32	1
Toluene	ND		0.20	0.050	ug/L			02/04/20 22:32	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			02/04/20 22:32	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			02/04/20 22:32	1
Trichloroethene	ND		0.20	0.066	ug/L			02/04/20 22:32	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			02/04/20 22:32	1
Vinyl chloride	ND		0.020	0.013	ug/L			02/04/20 22:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*02/04/20 22:32*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/04/20 22:32*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*02/04/20 22:32*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/04/20 22:32*	*1*
Trifluorotoluene (Surr)	*110*		*80 - 120*		*02/04/20 22:32*	*1*

Lab Sample ID: LCS 580-321997/6
Matrix: Water
Analysis Batch: 321997

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	5.02		ug/L		100	79 - 127
1,1,1-Trichloroethane	5.00	4.89		ug/L		98	74 - 128
1,1,2,2-Tetrachloroethane	5.00	5.32		ug/L		106	69 - 139
1,1,2-Trichloroethane	5.00	5.55		ug/L		111	80 - 127
1,1-Dichloroethane	5.00	5.11		ug/L		102	74 - 135
1,1-Dichloroethene	5.00	4.68		ug/L		94	71 - 126
1,1-Dichloropropene	5.00	4.82		ug/L		96	72 - 132
1,2,3-Trichlorobenzene	5.00	4.95		ug/L		99	75 - 137
1,2,3-Trichloropropane	5.00	5.71		ug/L		114	80 - 127
1,2,4-Trichlorobenzene	5.00	4.76		ug/L		95	79 - 130
1,2-Dibromo-3-Chloropropane	5.00	4.96		ug/L		99	69 - 130
1,2-Dichlorobenzene	5.00	5.22		ug/L		104	80 - 129
1,2-Dichloroethane	5.00	5.10		ug/L		102	74 - 130
1,2-Dichloropropane	5.00	5.23		ug/L		105	80 - 130
1,3,5-Trimethylbenzene	5.00	5.15		ug/L		103	80 - 139
1,3-Dichlorobenzene	5.00	4.98		ug/L		100	80 - 130
1,3-Dichloropropane	5.00	5.63		ug/L		113	80 - 130
1,4-Dichlorobenzene	5.00	5.15		ug/L		103	80 - 129
2,2-Dichloropropane	5.00	4.07		ug/L		81	58 - 150
2-Chlorotoluene	5.00	5.22		ug/L		104	80 - 136
4-Chlorotoluene	5.00	5.34		ug/L		107	80 - 130
4-Isopropyltoluene	5.00	5.33		ug/L		107	78 - 132
Benzene	5.00	4.88		ug/L		98	73 - 133
Bromobenzene	5.00	5.32		ug/L		106	80 - 130
Bromoform	5.00	4.84		ug/L		97	69 - 137

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-321997/6
Matrix: Water
Analysis Batch: 321997

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	5.00	4.37		ug/L		87	68 - 120
Carbon tetrachloride	5.00	4.73		ug/L		95	71 - 132
Chlorobenzene	5.00	5.22		ug/L		104	80 - 123
Chlorobromomethane	5.00	5.05		ug/L		101	79 - 131
Chlorodibromomethane	5.00	5.25		ug/L		105	76 - 131
Chloroethane	5.00	4.46		ug/L		89	49 - 135
Chloroform	5.00	5.11		ug/L		102	80 - 130
Chloromethane	5.00	4.52		ug/L		90	32 - 143
cis-1,2-Dichloroethene	5.00	4.83		ug/L		97	72 - 130
cis-1,3-Dichloropropene	5.00	5.11		ug/L		102	66 - 141
Dibromomethane	5.00	4.98		ug/L		100	65 - 141
Dichlorobromomethane	5.00	5.07		ug/L		101	74 - 131
Dichlorodifluoromethane	5.00	2.87		ug/L		57	20 - 137
Ethylbenzene	5.00	5.28		ug/L		106	80 - 130
Hexachlorobutadiene	5.00	4.66		ug/L		93	72 - 138
Isopropylbenzene	5.00	5.07		ug/L		101	75 - 137
Methyl tert-butyl ether	5.00	5.00		ug/L		100	60 - 150
Methylene Chloride	5.00	5.09		ug/L		102	75 - 134
m-Xylene & p-Xylene	5.00	5.21		ug/L		104	78 - 130
Naphthalene	5.00	4.64		ug/L		93	64 - 132
n-Butylbenzene	5.00	5.08		ug/L		102	73 - 135
N-Propylbenzene	5.00	5.46		ug/L		109	77 - 142
o-Xylene	5.00	5.07		ug/L		101	80 - 139
sec-Butylbenzene	5.00	5.33		ug/L		107	78 - 140
Styrene	5.00	4.85		ug/L		97	74 - 136
tert-Butylbenzene	5.00	5.27		ug/L		105	77 - 140
Tetrachloroethene	5.00	4.93		ug/L		99	75 - 131
Toluene	5.00	5.19		ug/L		104	80 - 126
trans-1,2-Dichloroethene	5.00	4.73		ug/L		95	63 - 133
trans-1,3-Dichloropropene	5.00	5.55		ug/L		111	71 - 128
Trichloroethene	5.00	5.15		ug/L		103	72 - 136
Trichlorofluoromethane	5.00	4.29		ug/L		86	60 - 132
Vinyl chloride	5.00	4.34		ug/L		87	52 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 580-321997/7
Matrix: Water
Analysis Batch: 321997

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	5.43		ug/L		109	79 - 127	8	20
1,1,1-Trichloroethane	5.00	5.14		ug/L		103	74 - 128	5	14

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-321997/7
Matrix: Water
Analysis Batch: 321997

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	5.00	5.35		ug/L		107	69 - 139	1	22
1,1,2-Trichloroethane	5.00	5.27		ug/L		105	80 - 127	5	19
1,1-Dichloroethane	5.00	5.28		ug/L		106	74 - 135	3	20
1,1-Dichloroethene	5.00	4.84		ug/L		97	71 - 126	3	17
1,1-Dichloropropene	5.00	4.91		ug/L		98	72 - 132	2	13
1,2,3-Trichlorobenzene	5.00	5.65		ug/L		113	75 - 137	13	20
1,2,3-Trichloropropane	5.00	5.69		ug/L		114	80 - 127	0	20
1,2,4-Trichlorobenzene	5.00	5.49		ug/L		110	79 - 130	14	20
1,2-Dibromo-3-Chloropropane	5.00	5.34		ug/L		107	69 - 130	7	26
1,2-Dichlorobenzene	5.00	5.38		ug/L		108	80 - 129	3	14
1,2-Dichloroethane	5.00	4.93		ug/L		99	74 - 130	3	15
1,2-Dichloropropane	5.00	4.96		ug/L		99	80 - 130	5	14
1,3,5-Trimethylbenzene	5.00	5.41		ug/L		108	80 - 139	5	20
1,3-Dichlorobenzene	5.00	5.03		ug/L		101	80 - 130	1	12
1,3-Dichloropropane	5.00	5.20		ug/L		104	80 - 130	8	19
1,4-Dichlorobenzene	5.00	5.09		ug/L		102	80 - 129	1	11
2,2-Dichloropropane	5.00	4.29		ug/L		86	58 - 150	5	28
2-Chlorotoluene	5.00	5.40		ug/L		108	80 - 136	3	20
4-Chlorotoluene	5.00	5.33		ug/L		107	80 - 130	0	20
4-Isopropyltoluene	5.00	5.60		ug/L		112	78 - 132	5	14
Benzene	5.00	4.88		ug/L		98	73 - 133	0	20
Bromobenzene	5.00	5.06		ug/L		101	80 - 130	5	20
Bromoform	5.00	4.63		ug/L		93	69 - 137	4	20
Bromomethane	5.00	4.76		ug/L		95	68 - 120	9	18
Carbon tetrachloride	5.00	4.92		ug/L		98	71 - 132	4	15
Chlorobenzene	5.00	5.13		ug/L		103	80 - 123	2	12
Chlorobromomethane	5.00	5.20		ug/L		104	79 - 131	3	20
Chlorodibromomethane	5.00	5.03		ug/L		101	76 - 131	4	20
Chloroethane	5.00	4.87		ug/L		97	49 - 135	9	27
Chloroform	5.00	5.25		ug/L		105	80 - 130	3	20
Chloromethane	5.00	4.93		ug/L		99	32 - 143	9	23
cis-1,2-Dichloroethene	5.00	5.11		ug/L		102	72 - 130	6	20
cis-1,3-Dichloropropene	5.00	5.13		ug/L		103	66 - 141	0	22
Dibromomethane	5.00	4.93		ug/L		99	65 - 141	1	20
Dichlorobromomethane	5.00	4.75		ug/L		95	74 - 131	7	20
Dichlorodifluoromethane	5.00	3.16		ug/L		63	20 - 137	10	22
Ethylbenzene	5.00	5.26		ug/L		105	80 - 130	0	20
Hexachlorobutadiene	5.00	5.24		ug/L		105	72 - 138	12	20
Isopropylbenzene	5.00	5.46		ug/L		109	75 - 137	7	20
Methyl tert-butyl ether	5.00	5.13		ug/L		103	60 - 150	3	25
Methylene Chloride	5.00	5.42		ug/L		108	75 - 134	6	18
m-Xylene & p-Xylene	5.00	5.24		ug/L		105	78 - 130	0	20
Naphthalene	5.00	5.28		ug/L		106	64 - 132	13	20
n-Butylbenzene	5.00	5.31		ug/L		106	73 - 135	4	18
N-Propylbenzene	5.00	5.53		ug/L		111	77 - 142	1	20
o-Xylene	5.00	5.36		ug/L		107	80 - 139	5	20
sec-Butylbenzene	5.00	5.65		ug/L		113	78 - 140	6	20
Styrene	5.00	4.62		ug/L		92	74 - 136	5	20
tert-Butylbenzene	5.00	5.48		ug/L		110	77 - 140	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-321997/7
Matrix: Water
Analysis Batch: 321997

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene			5.00	5.08		ug/L		102	75 - 131	3	20
Toluene			5.00	5.32		ug/L		106	80 - 126	3	20
trans-1,2-Dichloroethene			5.00	5.08		ug/L		102	63 - 133	7	17
trans-1,3-Dichloropropene			5.00	5.01		ug/L		100	71 - 128	10	21
Trichloroethene			5.00	4.96		ug/L		99	72 - 136	4	14
Trichlorofluoromethane			5.00	4.62		ug/L		92	60 - 132	7	20
Vinyl chloride			5.00	4.66		ug/L		93	52 - 128	7	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Trifluorotoluene (Surr)	*106*		*80 - 120*

Lab Sample ID: MB 580-322463/8
Matrix: Water
Analysis Batch: 322463

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			02/12/20 00:23	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			02/12/20 00:23	1
Bromoform	ND		0.50	0.16	ug/L			02/12/20 00:23	1
Bromomethane	ND		0.50	0.16	ug/L			02/12/20 00:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*02/12/20 00:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/12/20 00:23*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*02/12/20 00:23*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/12/20 00:23*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*02/12/20 00:23*	*1*

Lab Sample ID: LCS 580-322463/5
Matrix: Water
Analysis Batch: 322463

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene			5.00	4.79		ug/L		96	78 - 136
1,2-Dichloropropane			5.00	5.30		ug/L		106	80 - 130
Bromoform			5.00	5.14		ug/L		103	69 - 137
Bromomethane			5.00	5.13		ug/L		103	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
Trifluorotoluene (Surr)	*85*		*80 - 120*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCSD 580-322463/6
Matrix: Water
Analysis Batch: 322463

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			5.00	4.90		ug/L		98	78 - 136	2	20
1,2-Dichloropropane			5.00	5.17		ug/L		103	80 - 130	3	14
Bromoform			5.00	4.91		ug/L		98	69 - 137	5	20
Bromomethane			5.00	5.20		ug/L		104	68 - 120	1	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*87*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-321962/5
Matrix: Water
Analysis Batch: 321962

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25	0.10	mg/L			02/04/20 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*50 - 150*		*02/04/20 11:02*	*1*
Trifluorotoluene (Surr)	*97*		*50 - 150*		*02/04/20 11:02*	*1*

Lab Sample ID: LCS 580-321962/6
Matrix: Water
Analysis Batch: 321962

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1.00	0.953		mg/L		95	79 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*50 - 150*
Trifluorotoluene (Surr)	*93*		*50 - 150*

Lab Sample ID: LCSD 580-321962/7
Matrix: Water
Analysis Batch: 321962

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			1.00	1.02		mg/L		102	79 - 120	7	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*50 - 150*
Trifluorotoluene (Surr)	*100*		*50 - 150*

Method: 8011 - EDB

Lab Sample ID: MB 590-26514/3-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0057	ug/L		02/10/20 12:22	02/25/20 19:18	1

Lab Sample ID: LCS 590-26514/4-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	0.0571	0.0538		ug/L		94	60 - 140

Lab Sample ID: LCSD 590-26514/5-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26514

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.0571	0.0539		ug/L		94	60 - 140	0	20

Lab Sample ID: LLCS 590-26514/6-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26514

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	0.0114	0.00846	J	ug/L		74	60 - 150

Lab Sample ID: MB 590-26517/3-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.023	0.0057	ug/L		02/13/20 12:30	02/26/20 01:44	1

Lab Sample ID: LCS 590-26517/4-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	0.0571	0.0464		ug/L		81	60 - 140

Lab Sample ID: LCSD 590-26517/5-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26517

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.0571	0.0472		ug/L		83	60 - 140	2	20

Lab Sample ID: LLCS 590-26517/6-A
Matrix: Water
Analysis Batch: 26506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26517

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	0.0114	0.00777	J	ug/L		68	60 - 150

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 280-485317/1-A
Matrix: Water
Analysis Batch: 486137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 485317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.46	ug/L		02/07/20 15:25	02/18/20 05:17	1
2,4-D	ND		4.0	0.53	ug/L		02/07/20 15:25	02/18/20 05:17	1
2,4-DB	ND		4.0	0.75	ug/L		02/07/20 15:25	02/18/20 05:17	1
Dalapon	ND		2.0	0.91	ug/L		02/07/20 15:25	02/18/20 05:17	1
Dicamba	ND		2.0	0.44	ug/L		02/07/20 15:25	02/18/20 05:17	1
Dichlorprop	ND		4.0	0.65	ug/L		02/07/20 15:25	02/18/20 05:17	1
Dinoseb	ND		1.0	0.45	ug/L		02/07/20 15:25	02/18/20 05:17	1
MCPA	ND		400	48	ug/L		02/07/20 15:25	02/18/20 05:17	1
MCPP	ND		400	33	ug/L		02/07/20 15:25	02/18/20 05:17	1
Picloram	ND		0.50	0.24	ug/L		02/07/20 15:25	02/18/20 05:17	1
Silvex (2,4,5-TP)	ND		1.0	0.17	ug/L		02/07/20 15:25	02/18/20 05:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*84*		*39 - 135*	*02/07/20 15:25*	*02/18/20 05:17*	*1*

Lab Sample ID: LCS 280-485317/2-A
Matrix: Water
Analysis Batch: 486137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 485317

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			5.00	3.77		ug/L		75	42 - 121		
2,4-D			5.00	3.94	J	ug/L		79	41 - 124		
2,4-DB			5.00	2.46	J	ug/L		49	35 - 117		
Dalapon			5.00	3.46		ug/L		69	24 - 124		
Dicamba			5.00	3.92		ug/L		78	44 - 114		
Dichlorprop			5.00	4.23		ug/L		85	46 - 117		
Dinoseb			5.00	2.08		ug/L		42	11 - 110		
MCPA			500	407		ug/L		81	37 - 106		
MCPP			500	474		ug/L		95	33 - 131		
Picloram			5.00	2.92		ug/L		58	39 - 109		
Silvex (2,4,5-TP)			5.00	4.10		ug/L		82	48 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*81*		*39 - 135*

Lab Sample ID: LCSD 280-485317/3-A
Matrix: Water
Analysis Batch: 486137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 485317

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T			5.00	3.77		ug/L		75	42 - 121	0	30
2,4-D			5.00	3.83	J	ug/L		77	41 - 124	3	30
2,4-DB			5.00	2.44	J	ug/L		49	35 - 117	1	30
Dalapon			5.00	3.36		ug/L		67	24 - 124	3	30
Dicamba			5.00	4.00		ug/L		80	44 - 114	2	30
Dichlorprop			5.00	4.22		ug/L		84	46 - 117	0	30
Dinoseb			5.00	2.23		ug/L		45	11 - 110	7	30
MCPA			500	396	J	ug/L		79	37 - 106	3	30

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 280-485317/3-A
Matrix: Water
Analysis Batch: 486137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 485317

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MCPP			500	458		ug/L		92	33 - 131	3	30
Picloram			5.00	3.03		ug/L		61	39 - 109	4	30
Silvex (2,4,5-TP)			5.00	4.16		ug/L		83	48 - 123	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*81*		*39 - 135*

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

Lab Sample ID: MB 580-322169/1-A
Matrix: Water
Analysis Batch: 322343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.065	mg/L		02/06/20 11:45	02/10/20 14:09	1
Motor Oil (>C24-C36)	0.123	J	0.35	0.096	mg/L		02/06/20 11:45	02/10/20 14:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*02/06/20 11:45*	*02/10/20 14:09*	*1*

Lab Sample ID: LCS 580-322169/2-A
Matrix: Water
Analysis Batch: 322343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322169

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			2.00	1.70		mg/L		85	50 - 120
Motor Oil (>C24-C36)			2.00	1.94		mg/L		97	64 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*101*		*50 - 150*

Lab Sample ID: LCSD 580-322169/3-A
Matrix: Water
Analysis Batch: 322343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 322169

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			2.00	1.59		mg/L		79	50 - 120	7	26
Motor Oil (>C24-C36)			2.00	1.98		mg/L		99	64 - 120	2	24

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

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-322000/12-A
Matrix: Water
Analysis Batch: 322129

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 322000

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0010	mg/L		02/04/20 14:36	02/05/20 12:59	5
Barium	ND		0.0060	0.0011	mg/L		02/04/20 14:36	02/05/20 12:59	5
Cadmium	ND		0.0040	0.00050	mg/L		02/04/20 14:36	02/05/20 12:59	5
Chromium	ND		0.0040	0.00087	mg/L		02/04/20 14:36	02/05/20 12:59	5
Lead	ND		0.0040	0.0010	mg/L		02/04/20 14:36	02/05/20 12:59	5
Selenium	ND		0.040	0.010	mg/L		02/04/20 14:36	02/05/20 12:59	5
Silver	ND		0.0020	0.00028	mg/L		02/04/20 14:36	02/05/20 12:59	5

Lab Sample ID: LCS 580-322000/13-A
Matrix: Water
Analysis Batch: 322129

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 322000

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.984		mg/L		98	80 - 120
Barium	1.00	0.980		mg/L		98	80 - 120
Cadmium	1.00	0.992		mg/L		99	80 - 120
Chromium	1.00	0.995		mg/L		99	80 - 120
Lead	1.00	1.00		mg/L		100	80 - 120
Selenium	1.00	1.00		mg/L		100	80 - 120
Silver	1.00	0.974		mg/L		97	80 - 120

Lab Sample ID: LCSD 580-322000/14-A
Matrix: Water
Analysis Batch: 322129

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 322000

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.00	0.986		mg/L		99	80 - 120	0	20
Barium	1.00	0.987		mg/L		99	80 - 120	1	20
Cadmium	1.00	0.979		mg/L		98	80 - 120	1	20
Chromium	1.00	0.999		mg/L		100	80 - 120	0	20
Lead	1.00	1.00		mg/L		100	80 - 120	0	20
Selenium	1.00	1.02		mg/L		102	80 - 120	1	20
Silver	1.00	0.974		mg/L		97	80 - 120	0	20

Lab Sample ID: 580-92515-1 MS
Matrix: Water
Analysis Batch: 322129

Client Sample ID: MW-1
Prep Type: Dissolved
Prep Batch: 322000

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.036		1.00	1.00		mg/L		97	80 - 120
Barium	0.10		1.00	1.05		mg/L		95	80 - 120
Cadmium	ND		1.00	0.962		mg/L		96	80 - 120
Chromium	0.0011	J	1.00	0.966		mg/L		97	80 - 120
Lead	ND		1.00	0.990		mg/L		99	80 - 120
Selenium	ND		1.00	0.983		mg/L		98	80 - 120
Silver	ND		1.00	0.975		mg/L		98	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-92515-1 MSD
Matrix: Water
Analysis Batch: 322129

Client Sample ID: MW-1
Prep Type: Dissolved
Prep Batch: 322000

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.036		1.00	0.971		mg/L		94	80 - 120	3	20
Barium	0.10		1.00	1.04		mg/L		93	80 - 120	2	20
Cadmium	ND		1.00	0.969		mg/L		97	80 - 120	1	20
Chromium	0.0011	J	1.00	0.935		mg/L		93	80 - 120	3	20
Lead	ND		1.00	0.955		mg/L		95	80 - 120	4	20
Selenium	ND		1.00	0.934		mg/L		93	80 - 120	5	20
Silver	ND		1.00	0.948		mg/L		95	80 - 120	3	20

Lab Sample ID: 580-92515-1 DU
Matrix: Water
Analysis Batch: 322129

Client Sample ID: MW-1
Prep Type: Dissolved
Prep Batch: 322000

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.036		0.0357		mg/L		0.2	20
Barium	0.10		0.100		mg/L		0.3	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.0011	J	0.00116	J	mg/L		9	20
Lead	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-322027/16-A
Matrix: Water
Analysis Batch: 322155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		02/05/20 08:10	02/05/20 11:58	1

Lab Sample ID: LCS 580-322027/17-A
Matrix: Water
Analysis Batch: 322155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00185		mg/L		93	80 - 120

Lab Sample ID: LCSD 580-322027/18-A
Matrix: Water
Analysis Batch: 322155

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 322027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00200	0.00171		mg/L		85	80 - 120	8	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-322157/3
Matrix: Water
Analysis Batch: 322157

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.90	0.14	mg/L			02/05/20 13:45	1
Sulfate	ND		1.2	0.26	mg/L			02/05/20 13:45	1

Lab Sample ID: LCS 580-322157/4
Matrix: Water
Analysis Batch: 322157

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	47.2		mg/L		94	90 - 110
Sulfate	50.0	46.4		mg/L		93	90 - 110

Lab Sample ID: LCSD 580-322157/5
Matrix: Water
Analysis Batch: 322157

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	47.3		mg/L		95	90 - 110	0	15
Sulfate	50.0	46.4		mg/L		93	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-322206/1-A
Matrix: Water
Analysis Batch: 322207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.50	0.26	mg/L		02/06/20 14:40	02/06/20 14:44	1

Lab Sample ID: LCS 580-322206/2-A
Matrix: Water
Analysis Batch: 322207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	2.00	1.99		mg/L		99	90 - 110

Lab Sample ID: 580-92515-8 MS
Matrix: Water
Analysis Batch: 322207

Client Sample ID: MW-8
Prep Type: Total/NA
Prep Batch: 322206

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	F1	2.00	2.34	F1	mg/L		117	90 - 110

Lab Sample ID: 580-92515-8 MSD
Matrix: Water
Analysis Batch: 322207

Client Sample ID: MW-8
Prep Type: Total/NA
Prep Batch: 322206

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	ND	F1	2.00	2.10		mg/L		105	90 - 110	11	20

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 580-92515-8 DU
Matrix: Water
Analysis Batch: 322207

Client Sample ID: MW-8
Prep Type: Total/NA
Prep Batch: 322206

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia as N	ND	F1		ND		mg/L				NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-323323/13
Matrix: Water
Analysis Batch: 323323

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15	0.060	mg/L			02/20/20 17:22	1

Lab Sample ID: LCS 580-323323/14
Matrix: Water
Analysis Batch: 323323

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			1.00	1.07		mg/L		107	90 - 110		

Lab Sample ID: LCSD 580-323323/15
Matrix: Water
Analysis Batch: 323323

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N			1.00	1.07		mg/L		107	90 - 110	0	20

Lab Sample ID: 580-92515-1 MS
Matrix: Water
Analysis Batch: 323323

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N	14		0.500	13.9	4	mg/L		-70	90 - 110		

Lab Sample ID: 580-92515-1 MSD
Matrix: Water
Analysis Batch: 323323

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	14		0.500	15.1	4	mg/L		160	90 - 110	8	20

Lab Sample ID: 580-92515-1 DU
Matrix: Water
Analysis Batch: 323323

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate Nitrite as N	14			14.1		mg/L				1	20

Lab Chronicle

Client: HDR Inc
Job ID: 580-92515-1
Project/Site: Simplot - Sunnyside, WA

Client Sample ID: MW-1
Lab Sample ID: 580-92515-1
Date Collected: 01/31/20 09:08
Matrix: Water
Date Received: 02/04/20 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321997	02/04/20 23:26	T1W	TAL SEA
Total/NA	Analysis	8260C		1	322463	02/12/20 03:02	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321962	02/04/20 16:23	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 14:50	NMI	TAL SPK
Total/NA	Prep	8151A			485317	02/07/20 15:25	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 06:38	AJP	TAL DEN
Total/NA	Prep	3510C			322169	02/06/20 11:45	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322343	02/10/20 17:23	T1W	TAL SEA
Dissolved	Prep	3005A			322000	02/04/20 14:36	ART	TAL SEA
Dissolved	Analysis	6020A		5	322129	02/05/20 13:02	FCW	TAL SEA
Dissolved	Prep	7470A			322027	02/05/20 08:10	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322155	02/05/20 12:26	A1B	TAL SEA
Total/NA	Analysis	300.0		1	322157	02/05/20 15:06	AAC	TAL SEA
Total/NA	Analysis	300.0		10	322157	02/06/20 09:38	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			322206	02/06/20 14:40	AAC	TAL SEA
Total/NA	Analysis	350.1		1	322207	02/06/20 14:44	AAC	TAL SEA
Total/NA	Analysis	353.2		50	323323	02/20/20 17:26	JKM	TAL SEA

Client Sample ID: MW-2
Lab Sample ID: 580-92515-2
Date Collected: 01/31/20 09:58
Matrix: Water
Date Received: 02/04/20 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321997	02/04/20 23:53	T1W	TAL SEA
Total/NA	Analysis	8260C		1	322463	02/12/20 03:29	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321962	02/04/20 16:47	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 15:06	NMI	TAL SPK
Total/NA	Prep	8151A			485317	02/07/20 15:25	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 07:05	AJP	TAL DEN
Total/NA	Prep	3510C			322169	02/06/20 11:45	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322343	02/10/20 18:06	T1W	TAL SEA
Dissolved	Prep	3005A			322000	02/04/20 14:36	ART	TAL SEA
Dissolved	Analysis	6020A		5	322129	02/05/20 13:31	FCW	TAL SEA
Dissolved	Prep	7470A			322027	02/05/20 08:10	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322155	02/05/20 12:28	A1B	TAL SEA
Total/NA	Analysis	300.0		1	322157	02/05/20 15:18	AAC	TAL SEA
Total/NA	Analysis	300.0		10	322157	02/06/20 09:50	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			322206	02/06/20 14:40	AAC	TAL SEA
Total/NA	Analysis	350.1		1	322207	02/06/20 14:44	AAC	TAL SEA
Total/NA	Analysis	353.2		20	323323	02/20/20 18:44	JKM	TAL SEA

Client Sample ID: MW-3

Lab Sample ID: 580-92515-3

Date Collected: 01/31/20 11:03

Matrix: Water

Date Received: 02/04/20 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321997	02/05/20 00:20	T1W	TAL SEA
Total/NA	Analysis	8260C		1	322463	02/12/20 03:55	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321962	02/04/20 17:12	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 15:23	NMI	TAL SPK
Total/NA	Prep	8151A			485317	02/07/20 15:25	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 07:31	AJP	TAL DEN
Total/NA	Prep	3510C			322169	02/06/20 11:45	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322343	02/10/20 18:28	T1W	TAL SEA
Dissolved	Prep	3005A			322000	02/04/20 14:36	ART	TAL SEA
Dissolved	Analysis	6020A		5	322129	02/05/20 13:34	FCW	TAL SEA
Dissolved	Prep	7470A			322027	02/05/20 08:10	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322155	02/05/20 12:30	A1B	TAL SEA
Total/NA	Analysis	300.0		1	322157	02/05/20 15:30	AAC	TAL SEA
Total/NA	Analysis	300.0		10	322157	02/06/20 10:02	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			322206	02/06/20 14:40	AAC	TAL SEA
Total/NA	Analysis	350.1		1	322207	02/06/20 14:44	AAC	TAL SEA
Total/NA	Analysis	353.2		20	323323	02/20/20 18:45	JKM	TAL SEA

Client Sample ID: MW-4

Lab Sample ID: 580-92515-4

Date Collected: 01/31/20 12:21

Matrix: Water

Date Received: 02/04/20 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321997	02/05/20 00:46	T1W	TAL SEA
Total/NA	Analysis	8260C		1	322463	02/12/20 04:22	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321962	02/04/20 17:36	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 15:39	NMI	TAL SPK
Total/NA	Prep	8151A			485317	02/07/20 15:25	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 07:58	AJP	TAL DEN
Total/NA	Prep	3510C			322169	02/06/20 11:45	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322343	02/10/20 18:50	T1W	TAL SEA
Dissolved	Prep	3005A			322000	02/04/20 14:36	ART	TAL SEA
Dissolved	Analysis	6020A		5	322129	02/05/20 13:37	FCW	TAL SEA
Dissolved	Prep	7470A			322027	02/05/20 08:10	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322155	02/05/20 12:33	A1B	TAL SEA
Total/NA	Analysis	300.0		1	322157	02/05/20 16:05	AAC	TAL SEA
Total/NA	Analysis	300.0		10	322157	02/05/20 16:17	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			322206	02/06/20 14:40	AAC	TAL SEA
Total/NA	Analysis	350.1		1	322207	02/06/20 14:44	AAC	TAL SEA
Total/NA	Analysis	353.2		200	323323	02/20/20 17:33	JKM	TAL SEA

Client Sample ID: MW-5R
Lab Sample ID: 580-92515-5

Date Collected: 01/31/20 13:14
Matrix: Water
Date Received: 02/04/20 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321997	02/05/20 01:13	T1W	TAL SEA
Total/NA	Analysis	8260C		1	322463	02/12/20 04:48	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321962	02/04/20 18:00	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 15:55	NMI	TAL SPK
Total/NA	Prep	8151A			485317	02/07/20 15:25	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 08:25	AJP	TAL DEN
Total/NA	Prep	3510C			322169	02/06/20 11:45	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322343	02/10/20 19:11	T1W	TAL SEA
Dissolved	Prep	3005A			322000	02/04/20 14:36	ART	TAL SEA
Dissolved	Analysis	6020A		5	322129	02/05/20 13:39	FCW	TAL SEA
Dissolved	Prep	7470A			322027	02/05/20 08:10	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322155	02/05/20 12:35	A1B	TAL SEA
Total/NA	Analysis	300.0		1	322157	02/05/20 16:28	AAC	TAL SEA
Total/NA	Analysis	300.0		10	322157	02/05/20 16:40	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			322206	02/06/20 14:40	AAC	TAL SEA
Total/NA	Analysis	350.1		1	322207	02/06/20 14:44	AAC	TAL SEA
Total/NA	Analysis	353.2		100	323323	02/20/20 17:40	JKM	TAL SEA

Client Sample ID: MW-6
Lab Sample ID: 580-92515-6

Date Collected: 01/31/20 15:21
Matrix: Water
Date Received: 02/04/20 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321997	02/05/20 01:40	T1W	TAL SEA
Total/NA	Analysis	8260C		1	322463	02/12/20 05:15	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321962	02/04/20 18:24	PRO	TAL SEA
Total/NA	Prep	8011			26514	02/10/20 12:22	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 16:11	NMI	TAL SPK
Total/NA	Prep	8151A			485317	02/07/20 15:25	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 08:52	AJP	TAL DEN
Total/NA	Prep	3510C			322169	02/06/20 11:45	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322343	02/10/20 19:33	T1W	TAL SEA
Dissolved	Prep	3005A			322000	02/04/20 14:36	ART	TAL SEA
Dissolved	Analysis	6020A		5	322129	02/05/20 13:42	FCW	TAL SEA
Dissolved	Prep	7470A			322027	02/05/20 08:10	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322155	02/05/20 12:37	A1B	TAL SEA
Total/NA	Analysis	300.0		1	322157	02/05/20 16:52	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			322206	02/06/20 14:40	AAC	TAL SEA
Total/NA	Analysis	350.1		1	322207	02/06/20 14:44	AAC	TAL SEA
Total/NA	Analysis	353.2		20	323323	02/20/20 18:46	JKM	TAL SEA

Lab Chronicle

Client: HDR Inc
Job ID: 580-92515-1
Project/Site: Simplot - Sunnyside, WA

Client Sample ID: MW-7
Lab Sample ID: 580-92515-7
Date Collected: 01/31/20 14:18
Matrix: Water
Date Received: 02/04/20 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321997	02/05/20 02:06	T1W	TAL SEA
Total/NA	Analysis	8260C		1	322463	02/12/20 05:41	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321962	02/04/20 18:48	PRO	TAL SEA
Total/NA	Prep	8011			26517	02/13/20 12:30	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 02:48	NMI	TAL SPK
Total/NA	Prep	8151A			485317	02/07/20 15:25	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 09:20	AJP	TAL DEN
Total/NA	Prep	3510C			322169	02/06/20 11:45	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322343	02/10/20 19:54	T1W	TAL SEA
Dissolved	Prep	3005A			322000	02/04/20 14:36	ART	TAL SEA
Dissolved	Analysis	6020A		5	322129	02/05/20 13:45	FCW	TAL SEA
Dissolved	Prep	7470A			322027	02/05/20 08:10	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322155	02/05/20 12:39	A1B	TAL SEA
Total/NA	Analysis	300.0		1	322157	02/05/20 17:03	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			322206	02/06/20 14:40	AAC	TAL SEA
Total/NA	Analysis	350.1		1	322207	02/06/20 14:44	AAC	TAL SEA
Total/NA	Analysis	353.2		20	323323	02/20/20 18:47	JKM	TAL SEA

Client Sample ID: MW-8
Lab Sample ID: 580-92515-8
Date Collected: 01/31/20 08:15
Matrix: Water
Date Received: 02/04/20 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321997	02/05/20 02:33	T1W	TAL SEA
Total/NA	Analysis	8260C		1	322463	02/12/20 06:08	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321962	02/04/20 19:12	PRO	TAL SEA
Total/NA	Prep	8011			26517	02/13/20 12:30	NMI	TAL SPK
Total/NA	Analysis	8011		1	26506	02/26/20 03:04	NMI	TAL SPK
Total/NA	Prep	8151A			485317	02/07/20 15:25	DFB1	TAL DEN
Total/NA	Analysis	8151A		1	486137	02/18/20 10:15	AJP	TAL DEN
Total/NA	Prep	3510C			322169	02/06/20 11:45	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	322343	02/10/20 20:16	T1W	TAL SEA
Dissolved	Prep	3005A			322000	02/04/20 14:36	ART	TAL SEA
Dissolved	Analysis	6020A		5	322129	02/05/20 13:47	FCW	TAL SEA
Dissolved	Prep	7470A			322027	02/05/20 08:10	A1B	TAL SEA
Dissolved	Analysis	7470A		1	322155	02/05/20 12:42	A1B	TAL SEA
Total/NA	Analysis	300.0		1	322157	02/05/20 17:15	AAC	TAL SEA
Total/NA	Analysis	300.0		10	322157	02/05/20 17:27	AAC	TAL SEA
Total/NA	Prep	Distill/Ammonia			322206	02/06/20 14:40	AAC	TAL SEA
Total/NA	Analysis	350.1		1	322207	02/06/20 14:44	AAC	TAL SEA
Total/NA	Analysis	353.2		100	323323	02/20/20 17:43	JKM	TAL SEA

Lab Chronicle

Client: HDR Inc
Job ID: 580-92515-1
Project/Site: Simplot - Sunnyside, WA

Client Sample ID: Trip Blank
Lab Sample ID: 580-92515-9
Date Collected: 01/31/20 00:01
Matrix: Water
Date Received: 02/04/20 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	321997	02/04/20 22:59	T1W	TAL SEA
Total/NA	Analysis	8260C		1	322463	02/12/20 00:50	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	321962	02/04/20 19:36	PRO	TAL SEA

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: HDR Inc
Job ID: 580-92515-1
Project/Site: Simplot - Sunnyside, WA

Laboratory: Eurofins TestAmerica, Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Chloride
300.0		Water	Sulfate
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Lead
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
8260C		Water	1,1,1,2-Tetrachloroethane
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,1-Dichloropropene
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,2,3-Trichloropropane
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2,4-Trimethylbenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3,5-Trimethylbenzene
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,3-Dichloropropane
8260C		Water	1,4-Dichlorobenzene
8260C		Water	2,2-Dichloropropane
8260C		Water	2-Chlorotoluene
8260C		Water	4-Chlorotoluene
8260C		Water	4-Isopropyltoluene
8260C		Water	Benzene
8260C		Water	Bromobenzene
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chlorobromomethane
8260C		Water	Chlorodibromomethane
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene

Accreditation/Certification Summary

Client: HDR Inc
Job ID: 580-92515-1
Project/Site: Simplot - Sunnyside, WA

Laboratory: Eurofins TestAmerica, Seattle (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21
8260C	Water	Dibromomethane	
8260C	Water	Dichlorobromomethane	
8260C	Water	Dichlorodifluoromethane	
8260C	Water	Ethylbenzene	
8260C	Water	Hexachlorobutadiene	
8260C	Water	Isopropylbenzene	
8260C	Water	Methyl tert-butyl ether	
8260C	Water	Methylene Chloride	
8260C	Water	m-Xylene & p-Xylene	
8260C	Water	Naphthalene	
8260C	Water	n-Butylbenzene	
8260C	Water	N-Propylbenzene	
8260C	Water	o-Xylene	
8260C	Water	sec-Butylbenzene	
8260C	Water	Styrene	
8260C	Water	tert-Butylbenzene	
8260C	Water	Tetrachloroethene	
8260C	Water	Toluene	
8260C	Water	trans-1,2-Dichloroethene	
8260C	Water	trans-1,3-Dichloropropene	
8260C	Water	Trichloroethene	
8260C	Water	Trichlorofluoromethane	
8260C	Water	Vinyl chloride	

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C583-19	08-05-20

Laboratory: Eurofins TestAmerica, Spokane

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-025	01-07-21
Oregon	NELAP	4137	12-08-20
Washington	State	C569	01-06-21

Sample Summary

Client: HDR Inc
Project/Site: Simplot - Sunnyside, WA

Job ID: 580-92515-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-92515-1	MW-1	Water	01/31/20 09:08	02/04/20 07:45	
580-92515-2	MW-2	Water	01/31/20 09:58	02/04/20 07:45	
580-92515-3	MW-3	Water	01/31/20 11:03	02/04/20 07:45	
580-92515-4	MW-4	Water	01/31/20 12:21	02/04/20 07:45	
580-92515-5	MW-5R	Water	01/31/20 13:14	02/04/20 07:45	
580-92515-6	MW-6	Water	01/31/20 15:21	02/04/20 07:45	
580-92515-7	MW-7	Water	01/31/20 14:18	02/04/20 07:45	
580-92515-8	MW-8	Water	01/31/20 08:15	02/04/20 07:45	
580-92515-9	Trip Blank	Water	01/31/20 00:01	02/04/20 07:45	

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

580-92515 Chain of Custody

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Alyssa Veatch	Lab PM: Walker, Elaine M	COC No: 580-37380-11956.2
Client Contact: Alyssa Veatch	Phone: 208-387-7113	E-Mail: elaine.walker@testamericainc.com	Page: Page 2 of 4
Company: HDR Inc			Job #: 92515
Address: 412 E. Parkcenter Blvd. Suite 100	Due Date Requested:		
City: Boise	TAT Requested (days):		
State, Zip: ID, 83706-6659			
Phone: ~~208-387-7933(Tel)~~ 208-387-7113	PO #: Purchase Order Requested		
Email: alyssa.veatch@hdrinc.com	WO #:		
Project Name: Simplot - Sunnyside, WA	Project #: 58014777		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_LL, NWTPH_Gx	8011 - (MOD) EDB and DBCP Only	353.2 - Nitrogen, Nitrate-Nitrite	350.1 - Local Method	NWTPH_Dx - Northwest - DRO/IRRO	8151A - Herbicide (Aqueous)	6020A, 7470A	300.0_28D - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
	Preservation Code:							A	R	S	S	A	N	D	N		
-1	MW-1	1/31/20	0908	G	Water			X									*6020A/7470A
	MW-2		0958	G	Water			X									were field filtered
-3	MW-3		1103	G	Water			X									
	MW-4		1221	G	Water			X									
-5	MW-5R		1314	G	Water			X									
	MW-6		1521	G	Water			X									
-7	MW-7		1418	G	Water			X									
	MW-8		0815	G	Water			X									
-9	Trip Blank	lab		G	Water												

Therm. ID: IR7 Cor: 1.0 Unc: 1.3
Cooler Dsc: Lg Blue
Packing: bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour:
Other:

Therm. ID: IR7 Cor: 3.5 Unc: 3.8
Cooler Dsc: Lg Blue
Packing: bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx: P
UPS: NDA
Lab Cour:
Other:

Therm. ID: IR7 Cor: ° Unc: °
Cooler Dsc: Lg Blue
Packing: bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour:
Other:

Therm. ID: IR7 Cor: 3.4 Unc: 3.7
Cooler Dsc: Lg blue
Packing: bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour:
Other:

Therm. ID: IR7 Cor: 2.5 Unc: 2.8
Cooler Dsc: Lg Green
Packing: bub
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour:
Other:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1-21-2020 13:15	EF/TA	[signature]	2.4.20 0745	TAS22
[signature]	2-3-2020 16:00	HDR			

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Walker, Elaine M	Carrier Tracking No(s):	COC No: 580-74330.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: elaine.walker@testamericainc.com	State of Origin: Washington	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Washington		Job #: 580-92515-1
Address: 4955 Yarrow Street,	Due Date Requested: 2/14/2020			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Simplot - Sunnyside, WA	Project #: 58014777			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP Herbicide (Aqueous)	Total Number of containers	Special Instructio
			Preservation Code:						
MW-1 (580-92515-1)	1/31/20	09:08 Pacific		Water			X	2	
MW-2 (580-92515-2)	1/31/20	09:58 Pacific		Water			X	2	
MW-3 (580-92515-3)	1/31/20	11:03 Pacific		Water			X	2	
MW-4 (580-92515-4)	1/31/20	12:21 Pacific		Water			X	2	
MW-5R (580-92515-5)	1/31/20	13:14 Pacific		Water			X	2	
MW-6 (580-92515-6)	1/31/20	15:21 Pacific		Water			X	2	
MW-7 (580-92515-7)	1/31/20	14:18 Pacific		Water			X	2	
MW-8 (580-92515-8)	1/31/20	08:15 Pacific		Water			X	2	

580-92515 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Tom Blankenship	2/4/20	TA-Sea		2/5/2020 0910	ETA-DEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 01-D:5, CF+0.9, IR9 2/5/2020

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 580-92515-1

Login Number: 92515
List Number: 1
Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

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

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 580-92515-1

Login Number: 92515
List Number: 2
Creator: Awolaja, Oluwademilade A

List Source: Eurofins TestAmerica, Denver
List Creation: 02/05/20 02:58 PM

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

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 580-92515-1

Login Number: 92515
List Number: 3
Creator: Irons, Nicole M

List Source: Eurofins TestAmerica, Spokane
List Creation: 02/25/20 12:38 PM

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

Walker, M Elaine

From: Veatch, Alyssa <Alyssa.Veatch@hdrinc.com>
Sent: Wednesday, February 19, 2020 9:44 PM
To: Walker, M Elaine
Cc: Murray, Michael (Boise)
Subject: Re: 8011 for your Simplot - Sunnyside, WA project

EXTERNAL EMAIL*

Hi Elaine,

Go ahead and send them to Spokane for analysis.

Thanks,
Alyssa

On Feb 19, 2020 13:27, "Walker, M Elaine" <M.Elaine.Walker@testamericainc.com> wrote:

Good afternoon,

I have two jobs for your Sunnyside project that need 8011 EDB still. However, our instrument has gone down and we do not have a good idea on when it will be operational. The samples have been extracted already, but I would like to send the extracts to our Spokane lab to do the analyses.

The two jobs are 580-92451-1 (23 waters) and 580-92515-1 (9 waters).

The Spokane laboratory does have certification for this method. Do I have your approval to send these out? It will assure that your reports will get finished sooner as they are already past the due dates. Their reporting limit is 2x higher than ours so I need to confirm that this is acceptable. Our limit is 0.01 ug/L; theirs would be twice that.

Thanks,

M. Elaine Walker

Project Manager

Eurofins TestAmerica

5755 8th Street East

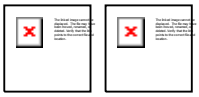
Tacoma, WA 98424

USA

Phone: 253-248-4972

E-mail: M.Elaine.Walker@testamericainc.com

www.EurofinsUS.com | www.TestAmericainc.com



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Data Validation Report

Simplot Grower Solutions
Sunnyside, Washington Site

DATA VALIDATION REPORT
FOR
JANUARY 2020 GROUNDWATER SAMPLING EVENT

Introduction

This report summarizes the data validation performed on the groundwater analytical results of the samples collected on January 28 through 30, 2020. Collection and analysis of these samples were conducted in accordance with the procedures and protocols specified in the October 2019 *Draft Remedial Investigation Work Plan* and following standard operating procedures (SOPs) for GeoProbe borings and groundwater sample collection.

The data validation for groundwater samples considered the following elements:

- Sampling procedures
- Holding times
- Detection limit
- Surrogate spike recoveries
- Laboratory method blank
- Laboratory control sample
- Trip blank
- Laboratory spikes and spike duplicates
- Duplicate field sample

Sampling Procedures

Groundwater samples were collected from monitoring wells and from GeoProbe borings at the Simplot Grower Solutions site in Sunnyside, Washington. GeoProbe borings were drilled and sampled on January 28 through 30, 2020. Groundwater was collected from 15 GeoProbe borings at approximately the soil/groundwater interface (borings were drilled to approximately 4 to 8 feet past soil saturation in order to ensure water could be pumped for collection). Additionally, for boreholes (BH) 1 through 6, water samples were collected approximately 10 feet below the soil/groundwater interface.

Each monitoring well was purged and sampled using a disposable bailer. Purged water was monitored for temperature, pH, and electrical conductivity. Purging continued until there was less than a 10 percent variance in parameter measurements after three consecutive readings or a minimum of three static well casing volumes had been removed.

Samples were labeled, sealed, placed in a cooler, and shipped to Test America in Tacoma, Washington.

Test America analyzed samples for the following constituents:

- Volatile Organic Compounds (VOCs) – Method 8260C
- Gasoline Range Organics – NWTPH-Gx
- Diesel and Residual Range Organics – NWTPH-Dx
- Ethylene Dibromide (EDB) – Method 8011
- Herbicides – Method 8151B
- Dissolved Metals (As, Ba, Cd, Cr, Pb, Se, Ag) – Method 6020A
- Dissolved Mercury – Method 7470A
- Chloride – Method 300.0
- Sulfate – Method 300.0
- Ammonia as N – Method 350.1
- Nitrate Nitrite as N – Method 353.2

Holding Times

A total of 32 water samples were submitted to Test America, including a trip blank and two duplicates. Holding times were met for all analytes.

Detection Limit

Detection limits are specified by the analytical methods. Dilution factors ranged as follows:

- VOCs (8260C) – 1-100
- Gasoline (NWTPH-Gx) – 1
- #2 Diesel (NWTPH-Dx) – 1
- Motor Oil (NWTPH-Dx) – 1
- EDB (8011) – 1
- Herbicides (8151B) – 1-100
- Dissolved Metals (6020A) – 5
- Dissolved Mercury (7470A) – 1
- Chloride (300.0) – 1-100
- Sulfate (300.0) – 1-100
- Ammonia as N (350.1) – 1-100
- Nitrate Nitrite as N (353.2) – 1-500

Surrogate Spike Recoveries

Surrogate spike recoveries were reviewed and evaluated for adherence to the control limits specified for their respective methods. The surrogate recoveries were within control limits with the exceptions summarized in **Table 1**.

Table 1. Surrogate Spike Recoveries Outside of Control Limits

Sample	Surrogate	Control Limit Exceeded	Percent Recovery
BH-09-W-8	1,2-Dichloroethane-d4	Lower: 80	5
BH-09-W-8	Toluene-d8	Upper: 120	123
BH-09-W-8	1,2-Dichloroethane-d4	Lower: 80	76
BH-09-W-8	4-Bromofluorobenzene	Upper: 150	183
BH-09-W-8	Trifluorotoluene	Upper: 150	180
BH-10-W-8	1,2-Dichloroethane-d4	Lower: 80	51
BH-11-W-8	1,2-Dichloroethane-d4	Lower: 80	48
BH-11-W-8	Toluene-d8	Upper: 120	123
BH-11-W-8	4-Bromofluorobenzene	Upper: 150	162
BH-11-W-8	Trifluorotoluene	Upper: 150	200
BH-11-W-8	2,4-Dichlorophenylacetic acid	Lower: 39	0
BH-16-W-8	1,2-Dichloroethane-d4	Lower: 80	48
BH-16-W-8	Toluene-d8	Upper: 120	124
BH-16-W-8	4-Bromofluorobenzene	Upper: 150	157
BH-16-W-8	Trifluorotoluene	Upper: 150	198
BH-16-W-8	2,4-Dichlorophenylacetic acid	Lower: 39	20
MW-3	1.2-Dichloroethane-d4	Upper: 120	121

Laboratory Method Blank

Table2 shows compounds that were detected at or above the method reporting limits in the laboratory method blanks in addition to any lab qualifiers. All detections in the method blank were qualified as estimated as they were detected at levels above the method detection limit, but below the reporting limit.

Table 2. Compounds Detected in the Laboratory Method Blank

Analyte	Result	Qualifier	Reporting Limit	Method Detection Limit	Lab Sample ID	Lab Report
Volatile Organic Compounds (VOCs) - Method 8260C - µg/L						Borings (J92451-1)
1,2,4-Trichlorobenzene	0.17	J	0.3	0.072	MB 580-321804/8	
1,2,4-Trimethylbenzene	0.0784	J	0.3	0.072		
4-Isopropyltoluene	0.145	J	0.3	0.05		
Isopropylbenzene	0.286	J	1	0.19		
Naphthalene	0.343	J	1	0.22		
n-Butylbenzene	0.155	J	0.5	0.08		
o-Xylene	0.015	J	0.5	0.15		
tert-Butylbenzene	0.124	J	0.5	0.1		
1,2,4-Trichlorobenzene	0.172	J	0.3	0.072	MB 580-321898/10	
1,2,4-Trimethylbenzene	0.0826	J	0.3	0.072		
4-Isopropyltoluene	0.146	J	0.3	0.05		

Analyte	Result	Qualifier	Reporting Limit	Method Detection Limit	Lab Sample ID	Lab Report
cis-1,3-Dichloropropene	0.147	J	0.2	0.09		
Isopropylbenzene	0.286	J	1	0.19		
Naphthalene	0.345	J	1	0.22		
n-Butylbenzene	0.156	J	0.5	0.08		
o-Xylene	0.151	J	0.5	0.15		
tert-Butylbenzene	0.125	J	0.5	0.1		
1,2,4-Trichlorobenzene	0.17	J	0.3	0.072	MB 580-322015/8	
1,2,4-Trimethylbenzene	0.0871	J	0.3	0.072		
Isopropylbenzene	0.286	J	1	0.19		
Naphthalene	0.349	J	1	0.22		
n-Butylbenzene	0.157	J	0.5	0.08		
o-Xylene	0.155	J	0.5	0.15		
tert-Butylbenzene	0.125	J	0.5	0.1		
Anions - Method 300.0 – milligrams per liter (mg/L)						
Chloride	0.191	J	0.9	0.14	MB 580-321971/3	
Chloride	0.223	J	0.9	0.14	MB 580-321972/3	
NWTPH-Dx - mg/L						Wells (J92515-1)
Motor Oil	0.123	J	0.35	0.096	MB 580-322169/1-A	

Laboratory Control Sample

Percent recoveries of the laboratory control samples were reported within acceptance limits.

Relative percent differences (RPDs) between the laboratory control samples and laboratory control sample duplicates were within RPD limits with the following exceptions:

- Dinoseb in LCSD 280-484770/3-A in lab report J92451-1 (groundwater samples from borings) had an RPD of 43, above the lab specified RPD limit of 30.

Trip Blank

A trip blank was included with the sample bottle shipment and was analyzed for volatile organics (Method 8260B). The trip blank was below detection limits for all constituents with the following exception:

- 1,2-Dichloroethane: detected at 0.045 micrograms per liter (µg/L), qualified J for estimated as it was detected above the method detection limit, but below the reporting limit.

Equipment Rinsate Blank

An equipment rinsate blank was collected by pouring distilled water through a probe length after decontamination. The equipment rinsate blank (EqR) was below detections limits for all constituents except for those listed in **Table 3**.

Table 3. Compounds Detected in the Equipment Rinsate Blank (EqR)

Analyte	Result	Qualifier	Reporting Limit	Detection Limit
Volatile Organic Compounds - USEPA 8260C - µg/L				
1,2,4-Trichlorobenzene	0.16	J B	0.3	0.072
1,2,4-Trimethylbenzene	0.077	J B	0.3	0.072
4-Isopropyltoluene	0.14	J B	0.3	0.05
Bromoform	0.3	J B	0.5	0.16
Chlorodibromomethane	0.34	--	0.2	0.055
Chloroform	0.082	J B	0.2	0.03
Chloromethane	0.24	J B	0.5	0.15
Dichlorobromomethane	0.14	J B	0.2	0.06
n-Butylbenzene	0.15	J B	0.5	0.08
tert-Butylbenzene	0.12	J B	0.5	0.1
Dissolved Metals - USEPA 6020A - mg/L				
Dissolved Arsenic	0.0052	--	0.005	0.001
Dissolved Barium	0.033	--	0.006	0.0011
General Chemistry - USEPA 300.0 and 353.2 - mg/L				
Chloride	8.5	B	0.9	0.14
Sulfate	20	--	1.2	0.26
Nitrate Nitrite as N	0.18	--	0.15	0.06

USEPA = U.S. Environmental Protection Agency

Laboratory Spikes and Spike Duplicates

Matrix spikes (MS) and matrix spike duplicates (MSD) were performed on random samples selected by the laboratory for each batch run. The MS and MSD were performed on BH-06-W-16, BH-08-W-8, BH-04-W-16, BH-12-W-12, BH-05-W-16, BH-01-W-8, BH-09-W-8, and EqR. All percent recoveries were within limits with the following exceptions:

- For the MS/MSD run on BH-12-W-12, the MS percent recoveries for sulfate (77 and 79, respectively) were below the percent recovery lower limit (90) and were qualified as F1 (indicating that the MS and/or MSD recovery exceeds control limits).
- For the MSD run on BH-05-W-16, the MSD percent recovery for ammonia as N (136) was above the percent recovery upper limit (110) and was qualified as F1 and F2 (indicating that the MS and/or MSD recovery exceeds control limits and that the MS/MSD RPD exceeds control limits). Additionally, the RPD between the MS and MSD was over the RPD limit (RPD of 25 compared to a lab RPD limit of 20).
- For the MS/MSD run on BH-09-W-8, the MS/MSD percent recoveries for nitrate nitrite as N (82 and 88, respectively) were below the percent recovery lower limit (90) and were qualified as F1 (indicating that the MS and/or MSD recovery exceeds control limits).

Duplicate Field Sample

A duplicate sample was secured from BH-11-W-8 (Duplicate: BH-16-W-8). The results of the duplicate are presented in **Table 4.**

Table 4. Relative Percent Differences (RPD) of Detected Compounds for Duplicate Sample from BH-11-W-8

Detected Compound	Units	BH-11-W-8	DUPLICATE	RPD
1,2,4-Trimethylbenzene	µg/L	180	160	11.76%
1,2-Dichloroethane	µg/L	110	92	17.82%
1,3,5-Trimethylbenzene	µg/L	140	130	7.41%
4-Isopropyltoluene	µg/L	8.2	8.9	8.19%
Benzene	µg/L	280	240	15.38%
Bromobenzene	µg/L	ND	0.048	NA
Chloromethane	µg/L	1	0.89	11.64%
Ethylbenzene	µg/L	140	120	15.38%
Isopropylbenzene	µg/L	46	43	6.74%
Methyl tert-butyl ether	µg/L	0.17	ND	NA
m-Xylene & p-Xylene	µg/L	210	190	10.00%
Naphthalene	µg/L	190	170	11.11%
n-Butylbenzene	µg/L	160	160	0.00%
N-Propylbenzene	µg/L	90	85	5.71%
o-Xylene	µg/L	4	3.9	10.53%
Sec-Butylbenzene	µg/L	9.3	10	7.25%
Styrene	µg/L	0.81	0.64	**23.45%**
Tetrachloroethene	µg/L	0.17	0.2	16.22%
Toluene	µg/L	3	2.9	3.39%
1,2-Dichloroethane	µg/L	110	NA	NA
1,3,5-Trimethylbenzene	µg/L	390	430	9.76%
Benzene	µg/L	980	1000	2.02%
Ethylbenzene	µg/L	380	410	7.59%
m-Xylene & p-Xylene	µg/L	980	1100	11.54%
Naphthalene	µg/L	250	2580	0.00%
n-Butylbenzene	µg/L	220	180	2.00%
N-Propylbenzene	µg/L	150	170	12.50%
1,2,4-Trimethylbenzene	µg/L	1300	1300	1.11%
Gasoline	mg/L	16	16	1.11%
2,4-D	mg/L	170	160	6.06%

Detected Compound	Units	BH-11-W-8	DUPLICATE	RPD
Dicamba	mg/L	ND	16	NA
Picloram	mg/L	28	3.7	**153.31%**
#2 Diesel	mg/L	5.4	7.1	**27.20%**
Motor Oil	mg/L	0.46	0.5	8.33%
Dissolved Arsenic	mg/L	0.12	0.11	8.70%
Dissolved Barium	mg/L	0.28	0.29	3.51%
Dissolved Cadmium	mg/L	0.001	0.00084	17.39%
Dissolved Lead	mg/L	0.0021	0.0022	4.65%
Chloride	mg/L	190	190	0.00%
Sulfate	mg/L	190	190	0.00%
Ammonia as N	mg/L	14	0.7	**180.95%**
Nitrate Nitrite as N	mg/L	0.25	0.12	**70.27%**

RPD (relative percent difference) = [BH-11-W-8 – BH-16-W-8]/ [mean (BH-11-W-8, BH-16-W-8)] X 100
mg/L = milligrams per liter, µg/L = micrograms per liter

A duplicate sample was secured from monitoring well MW-4 (Duplicate: MW-8). The results of the duplicate are presented in **Table 5**. The duplicate is within the acceptable range indicating acceptable precision of results.

Table 5. RPD of Detected Compounds for Duplicate Sample from MW-4

Detected Compound	Units	MW-4	DUPLICATE	RPD
1,1,2-Trichloroethane[1]	µg/L	ND	0.073	NA
1,2-Dichloroethane[1]	µg/L	ND	0.044	NA
,2-Dichloropropane	µg/L	69	76	9.66%
Motor Oil	mg/L	0.19	0.2	5.13%
Dissolved Arsenic	mg/L	0.028	0.026	7.41%
Dissolved Barium	mg/L	0.056	0.051	9.35%
Chloride	mg/L	64	57	11.57%
Sulfate	mg/L	190	190	0.00%
Nitrate Nitrite as N	mg/L	37	41	10.26%

[1]In MW-8, these compounds were detected above the MDL but below the RL.

RPD (relative percent difference) = [MW-4 – MW-8]/ [mean (MW-4, MW-8)] X 100
mg/L = milligrams per liter, µg/L = micrograms per liter, NA = not applicable

The duplicate from the GeoProbe borings is generally within the acceptable range indicating acceptable precision of results (20 percent) with the following exceptions:

- Styrene has an RPD of 23.45%

- Picloram has an RPD of 153.31%
- #2 Diesel has an RPD of 27.20%
- Ammonia as N has an RPD of 180.95%
- Nitrate-N has an RPD of 70.27%

The duplicate from the monitoring wells is within the acceptable range (20 percent) indicating acceptable precision of results.

E

Standard Operating Procedures

SOP-1

STANDARD OPERATING PROCEDURE

PROJECT CUSTODY DOCUMENTATION

Updated October 9, 2019

1.0 PURPOSE

The purpose of this procedure is to describe the requirements for completing a chain-of-custody record in order to ensure that there is an accurate and complete record of the custody and transfer of custody for samples collected that require custody documentation.

2.0 APPLICABILITY

This procedure is applicable to those project activities involving the acquisition of samples for laboratory analysis. The scope of activities identified by this procedure is limited to work conducted under the authorization of a project manager. These are standard (i.e., typically applicable) operation procedures which may be varied or changed as required, dependent upon site conditions, equipment limitations or limitations imposed by the procedure. The actual procedures used should be documented and described in an appropriate site report.

3.0 REFERENCES

- Quality Assurance Project Plan

4.0 DEFINITIONS

Chain-of-Custody Record: The Chain-of-Custody Record is a form designed to identify samples, sample location, sample type, sample analysis, samplers and to document the transfer of samples from the field to the laboratory. As such, the form is designed to summarize the contents of the shipment, the dates and time of any custody transfer, and signatures of parties relinquishing and receiving the samples.

5.0 PROCEDURES

5.1 Legal Considerations

Samples collected and personal observations made during the performance of client services may ultimately end up in a court of law as evidence. Evidence may consist simply of a person's impressions and opinions formed while at the scene. It also may consist of tangible objects. A person conveys impressions and opinions by testifying as a witness in a hearing. Tangible objects are displayed for the judge, jury, or hearing officer, who forms impressions and opinions about the objects. Tangible objects are either self-displaying (i.e., samples) or are recording (i.e., photographs, tape recordings, computer records, documents or chain-of-custody records). In addition, evidence may be facts judicially or officially noticed, such as scientific principles or geographical landmarks.

5.2 Chain-of-Custody Procedures

As in any other activity that may be used to support litigation, the sampler must be able to provide the chain of possession and custody of any samples which are offered for evidence or which form the basis of analytical test results introduced as evidence. Written procedures must be available and followed whenever evidence samples are collected, transferred, stored, analyzed, or destroyed. The primary objective of this procedure is to create an accurate written record which can be used to trace the possession and handling of the sample from the moment of its collection through analysis and its introduction as evidence. In addition, other information such as sample holding times from the field to the laboratory can be verified.

It is necessary to demonstrate that a sample is the same sample that was taken at the site and that it has not been changed or altered (except for the portion that has been analyzed) since the time of sampling. A written record is kept for this purpose. This record, a trail, unambiguously shows that the sample was in custody every step of the way. A sample is in someone's custody if:

- It is in a person's actual physical possession; or
- It is in a person's view, after being in a person's physical possession; or
- It is in a person's physical possession and then locked up so that no one can tamper with it; or
- It is kept in a secured area, restricted to authorized personnel only.

The custody record must be signed twice: when a sample is created and when a sample is surrendered.

5.3 Custody Transfer Record Requirements

5.3.1 A chain-of-custody form shall be initiated and completed during collection of the sample. (Refer to attached example.)

5.3.2 Possession of every sample shall be recorded from the time of collection until the analytical results are fully documented by the laboratory.

5.3.3 The field manager shall be responsible for proper completion of the chain-of-custody form.

5.3.4 A copy of the completed chain-of-custody form shall be retained by the field manager following shipment/delivery of samples to the laboratory and given to the project manager upon returning to the office or within several days of collecting the sample, whichever is sooner.

5.4 Completing the Chain-of-Custody Form

5.4.1 Use a ball point pen. Press firmly; form may have multiple pages.

5.4.2 Record the appropriate project number in the space designated for "Project No." Samples from only one site may be recorded on each chain-of-custody.

5.4.3 Record the project name in the space designated for "Project Name."

5.4.4 Record analytical laboratory name and address the samples that are being shipped for analysis in the space designated for "Lab Address."

5.4.5 Complete field sample identification code (Reference 3.0) in the block labeled "Field Sample Number". List each sample once and only once. Be especially careful when more than one bottle is required to meet analytical requirements. Distinguish the number zero from the letter O by drawing a slash through the number zero.

5.4.6 Field replicate samples are assigned unique sample identification numbers and are considered separate samples, therefore, record each field replicate sample on a separate line.

5.4.7 Record the collection date for each sample.

5.4.8 Record the number of sample containers for "No. of Containers."

5.4.9 Determine if sample is a composite or grab sample and mark appropriate box with an "X."

5.4.10 Record the preservation methods under the heading "Notes/Comments." This includes the addition of ice to coolers (e.g., 6° C).

5.4.11 List parameters on the chain-of-custody form that the samples are being analyzed for under the “Analysis Requested” section. Use a separate column for each analysis. If extra space is needed, use an asterisk and describe the analysis under the heading "Remarks/Special Instructions."

5.4.12 Use a check to designate the analyses requested for each sample. A separate check is required for each sample; do not use arrows to identify the analysis requested.

5.5 Documenting Changes and Errors Prior to Custody Transfer

5.5.1 Cross out and initial any information incorrectly entered on the chain-of-custody form, such as for samples that have not actually been collected or, will not be included in this particular shipment.

5.5.2 Cross out and initial any entries which have errors or are illegible. Legibility is very important. Rewrite correct and legible entry on a separate line.

5.5.3 Verify numbers prior to custody transfer.

5.6 Quality Review in the Field

5.6.1 Cross check the sample identification numbers on the chain-of-custody form with those on the labels of the sample containers.

5.6.2 The field manager shall conduct a detailed review of the completed chain-of-custody form.

5.6.3 Verify the legibility of the bottom page of the chain-of-custody form.

5.7 Documenting Transfer of Sample Custody

5.7.1 In the case of more than one cooler per shipment, the coolers to be prepared for shipment shall be numbered on the outside of the coolers and recorded in the field logbook. ** NOTE: Samples from only one project site shall be in each cooler.

5.7.2 The chain-of-custody form shall accompany the samples while the samples are in transit.

5.7.3 Individuals relinquishing and receiving samples shall sign, date, and indicate the time in the lower portion of the chain-of-custody form. ** NOTE: For remote field sites where complex logistics are required to ship coolers, the field manager will generally seal the chain-of-custody form into the coolers, and document the mode of cooler transportation (e.g., field staff, courier service, FedEx) in the field notes. In these cases, the chain-of-custody form is only signed again before its receipt at the laboratory if the coolers are opened (e.g., repacked with fresh ice).

5.7.4 The field manager shall maintain a copy (photocopy or scan) of the chain-of-custody form as a record of field custody transfer.

5.8 Custody Transfer in the Laboratory

5.8.1 The sample custodian shall receive the samples at the laboratory. The individual relinquishing the samples will sign and date the release, and the sample custodian shall sign the chain-of-custody form, indicating acceptance of the samples.

5.8.2 The chain-of-custody form shall accompany samples sent to subcontracting laboratories for analysis. Sample custody shall be documented by individuals relinquishing and receiving samples.

5.8.3 The original copy of the completed chain-of-custody form shall be maintained at the laboratory until submittal of analytical results, at which time the original copy, or a photocopy if other laboratories are involved, is remitted with the analytical results. A copy of the completed chain-of-custody shall be maintained by the project.

5.9 Documenting Changes After Custody Transfer

5.9.1 Errors on the chain-of-custody, discovered after custody transfer, can be corrected by contacting project manager/field manager and notifying the laboratory immediately. Any corrections to the chain-of-custody form once original field custody has been relinquished must be documented in project records: emails, phone records, and the case narrative from the lab if applicable. Corrections shall be documented with organizations with whom the data will be submitted.

6.0 QA RECORDS

- Field log books
- Field data sheets and records

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COC Set____of____
COC#_____

Page 1 of 1

Project Name	Project Number
Project Manager	
Company	
Address	
Phone #	email
Sampler Signature	Sampler Printed Name

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS	7D		14D				28D							90D		180D				999D							Remarks
					160.2 / TSS	SM 2540 C / TDS	SM 2320 B / Alkalinity Titr	SM 2320 B / Bicarb Alk.	SM 2320 B / Carbonate Alk.	SM 4500-CN- E / CN T LL	1632 / As3	300.0 / Chloride	300.0 / F	300.0 / SO4	350.1 / Ammonia T	351.4 / TKN	353.2 / NO2 NO3 T	1631E / Hg LL D	1631E / Hg LL T	6010C / Metals D	6010C / Metals T	6020A / Metals D	6020A / Metals T	351.4/353.2 / TN Calc	SM 2340 B / Hardness Calc	1	2	3	4	5	
1.																														
2.																														
3.																														
4.																														
5.																														
6.																														
7.																														
8.																														
9.																														
10.																														

Report Requirements

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. CLP Like Summary (no raw data)
___ IV. Data Validation Report
___ V. EDD

Invoice Information

P.O.#_____
Bill To:_____

Turnaround Requirements

___ 24 hr ___ 48 hr
___ 5 Day
___ Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm	Firm	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

SOP-2
STANDARD OPERATING PROCEDURE
SOIL BORING AND SUBSURFACE SAMPLE COLLECTION
(GeoProbe™)

Updated October 9, 2019

Purpose

This procedure describes the soil boring method and subsurface soil and groundwater sample collection techniques for GeoProbe™ operations that should be followed to ensure acceptable, consistent collection of subsurface samples for chemical and physical analysis and physical description.

Applicability

The requirements of this procedure are applicable to project activities involving soil borings, soil sample collection, groundwater sample collection, sample logging, examination, and classification.

The extent of project activities identified by this procedure is controlled at the direction of the project manager.

These are standard (i.e., typically applicable) operation procedures that may be varied or changed as required, dependent upon site conditions, equipment limitations or limitations imposed by the procedure. In all instances, the actual procedures used should be documented and described in an appropriate site report.

References

- Project Health and Safety Plan
- Remedial Investigation Work Plan (RI Work Plan)

Procedures

<u>Site Mobilization and Set-Up</u>

- Inspect the GeoProbe™ rig and materials to ensure they arrived on site in a clean condition and are free of oil, grease, and debris. The field manager shall inspect the rig for any significant fluid leaks. If leaking fluids are present, repair or contain them.

- Ensure that the probes, drills, and accessories are steam-cleaned prior to the start of drilling. Inspect the cleaned materials for residues such as machine oils. If residues are observed, steam-clean the equipment until such residues are removed.

- Perform decontamination procedures between probing.

- Set up the decontamination area for sampling equipment, and decontaminate any non-disposable sampling equipment prior to use.

- Use potable water for decontamination.

- If required, obtain the anticipated number of solid and liquid 55-gallon drums required to contain the soil and decontamination waste, and have drums ready for drilling activities.

Soil Probing

- Notify the Washington Utilities Coordinating Council (Call Before You Dig, 1-800-424-5555) to identify utilities prior to soil probing.
- Mobilize the GeoProbe™ to the boring location; prepare the exclusion or safety zone.
- If required, adjust the proposed probe locations in the field, based on site access, property boundaries, and/or surface obstructions.
- Review the safety level for soil probing and related activities in the site-specific health and safety plan.
- Drill soil borings as per this procedure using a GeoProbe™ rig (e.g., Model 5400).
- If concrete or asphalt is present, use the boring or drill hammer equipment, present on most GeoProbe™ rigs, to penetrate the material in order to access soil and groundwater.
- Collect continuous samples with a soil-sampling tube attached to a probe rod. (Note: Check the RI Work Plan for additional requirements or exceptions). An on-site geologist or other authorized personnel will examine and classify the soil sample.
- Standard sampling tube is in 4-foot lengths.
- Continue probing to the depth specified in the RI Work Plan.
- Decontaminate the GeoProbe™ rig between relocations to boreholes as specified in the following "Soil Sampling" section.

Soil Sampling

- To collect intact subsurface soil samples from boreholes, advance the probe at 4-foot intervals or other intervals as specified in the RI Work Plan. Drive the probe rod and sampler to a designated depth and then retract the probe rod from the hole to recover the sample tube.
- For each sample, record the following in the field logbook:
    - Date and time of collection
    - Depth of sample collection
    - Sample recovery
    - Qualitative description of the soil sample
- As specified in the RI Work Plan, collect a representative sample and place it in the appropriate sample container(s).
- Obtain the soil samples for volatile organic analyses first, and immediately place them in the proper sample bottles to minimize volatilization of such compounds.

- Sampling personnel shall remove outer gloves (latex) and discard them between borings to minimize the potential for sample cross-contamination.

- Decontaminate the sampling equipment between each sampling interval as described in the following "Groundwater Sampling" section.

Groundwater Sampling

- To collect groundwater samples using the GeoProbe™, advance the probe, equipped with a mill-slotted well rod or sealed-screen sampler, to the desired depth. Collect a groundwater grab sample by placing 1/4-inch tubing with an attached foot valve down in the well and conveying water to the surface with an up-and-down motion of the foot valve. Other alternatives for conveying water are by using a manual bailer or a peristaltic pump attached to 1/4-inch tubing. The field team manager will select the sampling device based on type of constituents being sampled and depth to groundwater. Directly pump water by mechanical action to the surface and into laboratory-supplied sample bottles. Use new tubing for each borehole, and clean and decontaminate the rods, sampler, and screen after sampling each borehole.

- For each groundwater sample, record the following in the field logbook:

    - Date and time of collection
    - Depth of sample collection
    - Qualitative description of the water sample (turbidity, odor, color, etc.)

Field Duplicate Samples

If duplicate samples are specified in the RI Work Plan, collect them from the same stainless steel, tempered glass, or aluminum container as the routine field sample.

Sample Handling, Labeling and Documentation

- Complete a record of each sample and the required analysis at the time of sample collection on the chain-of-custody form.

- Label each sample with the following information:

    - Sample identification code
    - Type of sample
    - Collection date/time
    - Preservatives
    - Analysis

- Pressure wash the GeoProbe™ rig, probes, tools, bits, and samplers used during drilling to prevent cross contamination between each test boring. Inspect the rig for any residues after washing. If the equipment is not clean, repeat the cleaning procedure. Decontaminate the drill rig and associated equipment consistent with the health and safety plan.

SOP-3

STANDARD OPERATING PROCEDURES
Sampling Monitoring Wells

October 9, 2019

Sampling

- **Measurement of static water level elevation** – Using a water level sounder, whose tip has been rinsed with distilled water, the depth to water below the top of casing or other permanent reference point on the well will be measured and recorded in the field logbook or field sheets. Measurements will be taken to the nearest one-hundredth of a foot. Water level measurements will be made prior to any sampling to reduce the amount of time between measurements.

- **Well purging –** Prior to obtaining water samples, the wells will be purged by pumping until there is less than a 10 percent variance in parameter measurements (pH, specific conductance, and temperature) after three consecutive readings or a minimum of three static casing volumes have been removed, or until the well is dry. Well purging will be done using permanently installed submersible pumps, by using a disposable hand bailer and disposable rope in wells that have low recharge, or by using a peristaltic pump with new disposable tubing. The installed pumps use stainless steel construction. The discharge pipe will be threaded PVC pipe and submersible cable will have a plastic covering. The well head is completed using standard well seal with the discharge pipe fitted with a valve. The peristaltic pump will use new, disposable polyethylene and silicone tubing at each well that will be disposed of after use. For wells where the pump can no longer provide sufficient volume, the well pump will be pulled and the well will be purged and sampled using a disposable bailer. Purge water will be containerized. Laboratory analysis will be used to determine the appropriate method of disposal.

  For wells that are purged dry, the well will be allowed to recharge to 18 to 24 hours. A sample will then be collected after this waiting period. If there is insufficient sample after 24 hours, the well will be considered dry.

- **Sample withdrawal –** Samples will be collected from the discharge line of the pump at the wells or using a disposable bailer. Purge rates will not exceed 3.0 gallons per minute. Well will be sampled immediately after purging if adequate volume is available. If there is not sufficient volume, sampling will occur as soon as the well has recovered sufficient volume but generally within 24-hours.

- **VOC-Sampling** – For the sampling and handling of volatile organic compounds (VOCs), the following procedures are followed to minimize the loss of VOC:

- Fill the vials, with no aeration, to just overflowing such that the water surface forms a meniscus. The filling rate should, ideally, not exceed 100 milliliters per minute. Care must be taken not to rinse out any HCl preservative in the vial.

- Place the cap directly over the top of the vial with the Teflon® side of the septum toward the sample.

- Screw the cap on firmly but not so tightly that the septum bulges out.

- Invert the vial and tap lightly and observe the presence of any trapped air bubbles.

- Any air bubbles that are present must be eliminated from the sample container. Consideration should be given to discarding and refilling the sample container to eliminate air bubbles (using a new container for samples requiring HCL). In cold weather, actions should be taken to prevent the VOC vials from freezing.

- **In-situ or field analyses** – Field measurements of pH, specific conductance, and temperature will be collected between the removal of each casing volume. Standard operating procedures for these measurements are presented below.

- **Decontamination** – The only equipment requiring decontamination between wells is the depth sounder and applicable field parameter equipment. The sounder, pH electroprobe, temperature probe, and conductivity probe will be decontaminated with a generous rinse of distilled water. None of these instruments are to come into direct contact with water samples that are submitted to the laboratory for analysis.

Sample Preservation and Handling

1. **Sample containers -** Samples for field measurement of pH, temperature, and specific conductance will be collected in a disposable plastic cup or the instrument sample chamber, or through the use of continuous flow measuring equipment. Samples for analysis will be collected in laboratory-supplied glass or plastic bottles fitted with Teflon-lined screened caps (see Remedial Investigation Work Plan (RI Work Plan) for list of parameters).

2. **Sample preservation and holding times –** All samples will be iced or refrigerated at less than 4 degrees Celsius from the time of sampling until the analysis is complete, and maintained at these conditions away from light. All samples will be transported in ice chests with ice packs or fresh, wet ice. See QAPP for list of holding times and preservative requirements by analytical method. The laboratory provides proper sample bottles and preservatives.

Chain-of-Custody Procedures

1. **Labeling and sealing of samples –** All sample bottles will have durable labels which will have the following information:

    - Sample identification number and well number

- Date and time of collection, and
- Parameters requested.

After collection, each sample will be immediately capped, identified, and placed into the shipping containers, the shipping containers will be packed with ice and sealed with chain-of-custody tape.

2. **Maintenance of field logbooks –** A field logbook or sample sheets will be maintained to document the following during each sampling event:

    - Identification of the well
    - Static water level
    - Approximate purge volume or purge rate
    - Estimate of well yield (high or low)
    - Time well purged
    - Date of sample collection
    - Sample identification numbers and parameters requested for analysis
    - Field analysis data and methods
    - Field observations and remarks
    - Name of collector and on-site personnel and visitors
    - Climatic conditions during sampling

3. **Chain-of Custody records –** A chain-of-custody control form will accompany each container of samples from the time the samples are first obtained until their delivery to the laboratory. Each time the samples change custody, personnel involved will "sign off" in the appropriate place on the form. The form is completed with a carbon copy until it is received by the bonded shipper. The carbon copy is retained by the sampler, and the original accompanies the shipment to the laboratory, finally being returned with the analysis results. The chain-of-custody form will contain the following information:

    - Laboratory name and address
    - Sample number
    - Date and time of collection
    - Number of containers
    - Special instructions
    - Sample allocation
    - Signatures of persons involved in the chain of possession
    - Dates samples relinquished or received

4. **Laboratory logbooks –** The laboratory receiving the samples will be required to keep a logbook which will clearly document the following:

    - Sample preparation techniques
    - Instrument methods
    - Experimental conditions
    - Time, date, and name of person performing each processing step

- Results of all QC samples

Analytical Procedures

Laboratory analyses will be performed by a laboratory that complies with U.S. Environmental Protection Agency (EPA) methods using appropriate quality assurance/quality control (QA/QC) measures. All samples will be analyzed for the constituents in listed in the RI Work Plan. Samples will be analyzed within holding times specified for each method. The laboratory reporting limit and percent recovery (if applicable) will be provided for each parameter.

Field and Laboratory Quality Assurance/Quality Control Measures

1. **Field QA/QC** – A duplicate sample will be submitted with each round of groundwater samples. See QAPP for criteria for comparing duplicate sample with parent sample.

2. **Laboratory QA/QC** – Standards, laboratory blanks, duplicates, and spiked samples will be analyzed as stated for each method. Data from analyses of standards blanks, and duplicates and spiked samples will be submitted with groundwater sample results (see QAPP).

Field Measurement of pH, Conductivity, and Temperature

Field measurements of pH, conductivity, and temperature will be collected during well purging. Field parameters and other relevant information will be recorded in a notebook or sample sheets.

Determination of pH, specific conductance, and temperature will be made in an aliquot contained in a disposable plastic cup or the instrument sample chamber, or through the use of continuous flow measuring equipment. Meters will be calibrated prior to well purging in accordance with specifications of the *Operations and Maintenance Manual*.

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Photo Log

Photo 1. GeoProbe setup at BH-01

Photo 2. Soil cuttings from BH-01; 0 to 12 ft; 0 ft at bottom right, 12 ft at top left.

Photo 3. GeoProbe setup at BH-02

Photo 4. Soil cuttings from BH-02; 0 to 12 ft, 0 ft at bottom right, 12 ft at top left.

Photo 5. Soil cuttings from BH-02; 12 to 20 ft, 12 ft at bottom right, 20 ft at top left.

Photo 6. BH-03

Photo 7. Soil cuttings from BH-03; 0 to 20 ft, 0 ft at bottom right, 20 ft at top left.

Photo 8. BH-04

Photo 9. Soil cuttings from BH-04; 0 to 12 ft, 0 ft at bottom right, 12 ft at top left.

Photo 10. Closeup of soil cuttings from 8 to 12 ft, where soils turn grey.

Photo 11. Soil cuttings from BH-04; 12 to 20 ft, 12 ft at bottom right, 20 ft at top left.

Photo 12. BH-05

Photo 13. Soil cuttings from BH-05; 0 to 12 ft, 0 ft at bottom right, 12 ft at top left.

Photo 14. Soil cuttings from BH-05; 12 to 20 ft, 12 ft at bottom right, 20 ft at top left.

Photo 15. BH-06

Photo 16. Soil cuttings from BH-06; 0 to 12 ft, 0 ft at bottom right, 12 ft at top left.

Photo 17. Soil cuttings from BH-06; 12 to 20 ft, 12 ft at bottom right, 12 ft at top left.

Photo 18. Soil cuttings from BH-07; 0 to 12 ft, 0 ft at bottom right, 12 ft at top left.

Photo 19. BH-08

Photo 20. Soil cuttings from BH-08; 0 to 12 ft, 0 ft at bottom right, 12 ft at top left.

Photo 21. BH-09

Photo 22. Soil cuttings from BH-09; 0 to 12 ft, 0 ft at bottom right, 12 ft at top left.

Photo 23. BH-10

Photo 24. Soil cuttings from BH-10; 0 to 12 ft, 0 ft at bottom right, 12 ft at bottom left.

Photo 25. BH-11

Photo 26. Soil cuttings from BH-11; 0 to 12 ft, 0 ft at bottom right, 12 ft at top left.

Photo 27. Closeup of soil cuttings from BH-11, where discoloration (black and grey) and odors first appeared.

Photo 28. BH-12

Photo 29. Soil cuttings from BH-12; 0 to 12 ft, 0 ft at bottom right, 12 ft at top left.

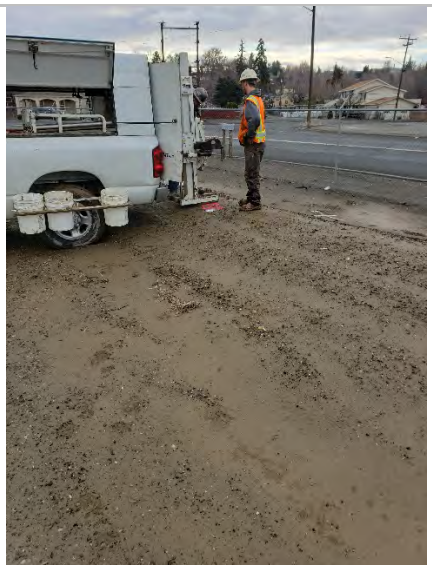

Photo 30. BH-13

Photo 31. Soil cuttings from BH-13; 0 to 12 ft, 0 ft at bottom right, 12 ft at top left.

Photo 32. BH-14

Photo 33. Soil cuttings from BH-14; 0 to 12 ft, 0 ft at bottom right, 12 ft at top left.

Photo 34. BH-15

	
Photo 35. Soil cuttings from BH-15; 0 to 8 ft, 0 ft at top left, 8 ft at bottom right.	