



August 10, 2022

Christer Loftenius  
Washington State Department of Ecology – Eastern Regional Office  
4601 North Monroe Street  
Spokane, WA 99205-3543

**Subject: Progress Report for July 2022, Warden City Water Supply Wells No. 4 and 5.  
Washington Facility Site ID No. 2802409; Cleanup Site ID: 1618  
Agreed Order No. DE 16890**

Dear Christer:

The J.R. Simplot Company (Simplot) entered into an Agreed Order (AO) (No. DE 16890) with the Washington State Department of Ecology (Ecology) to provide remedial action at 1800 W. 1<sup>st</sup> Street, Warden WA, 98857.

Per the AO, Simplot shall submit to Ecology written monthly progress reports that describe the actions taken during the previous month to implement the requirements of the AO.

The AO requires that the progress reports include the following:

- a. A list of on-site activities that have taken place during the previous month;
- b. Detailed description of any deviations from required tasks not otherwise documented in project plans or amendment requests;
- c. Description of all deviations from the scope of work and schedule during the previous quarter and any planned deviations in the upcoming quarter;
- d. For any deviations in schedule, a plan for recovering lost time and maintaining compliance with the schedule;
- e. All raw data (including laboratory analyses) received by Simplot during the past quarter and an identification of the source of the sample; and
- f. A list of deliverables for the upcoming quarter if different from the schedule.

### Activities in July 2022

- Simplot initiated SVE operations per the *Cleanup Action Implementation Compliance Monitoring Plan* (CAICMP; HDR revised May 2022) and *SVE Performance Test Plan* (PTP; HDR May 2022).
- Full-scale implementation of performance field data and sample collection has been ongoing since June 8, 2022 and will continue in accordance with PTP (HDR May 2022). Pre-treatment sampling consisting of four discrete core soil samples and the associated quality control (QC) samples are collected prior to treatment of each Treatment Batch and analyzed for EDB by Eurofins in Spokane, Washington on a rush 24-hour turnaround basis. All samples to date have been reported as non-detect for EDB by the analytical laboratory. EDB analytical results for Treatment Batch 9 through 15 are attached to this memo, for pilot study and Treatment Batch 1 through 8, refer to the June 2022 Progress Report.
- Simplot/HDR coordinated with GrayMar to remove Treatment Batch soils 9 through 15 for use as on-site backfill based on non-detect soil sample analytical results, in accordance with the CAICMP and PTP.
- Simplot/HDR/GrayMar had teleconference with Ecology on July 14, 2022 and discussed pilot study results and full-scale treatment operations and results to date.
- GrayMar procured air flow rate equipment and vacuum gauges to provide quantifiable physical data such as (vacuum) pressures and flow rates. GrayMar performed maintenance activities on the SVE system from July 18 to July 20, 2022. Activities included removal and replacement of geotextile, inspection/replacement of slotted screen as needed, repair of treatment cell side walls, and installation of differential pressure gauge (magnehelic gauge/pitot tube).
- Simplot/HDR/Ecology site visit on July 28, 2022. Ecology (Loftenius and Fees) attended virtually. HDR (Newcomb) and Simplot (Dimick) were onsite and demonstrated system operations and features and answer Ecology questions regarding system operational parameters. HDR demonstrated differential pressure gauge readings/function, digital manometer readings/function, and visual vacuum response across treatment cell.
- Simplot/HDR are working on a draft cleanup action report to summarize the remedial action (impacted soils excavation) to date.

### Anticipated Activities for August 2022

- Simplot/HDR implementing full-scale implementation of ex-situ SVE. Full-scale performance field data and sample collection will continue in accordance with PTP (HDR May 2022).
- Simplot/HDR to evaluate soil batches within treatment cell for removal and use as on-site backfill in accordance with CAICMP and PTP.
- Simplot/HDR to submit draft cleanup action report summarizing remedial action (impacted soil excavation) to date.

If you have questions please feel free to contact me at (208) 387-7018 or at [tyler.allen@hdrinc.com](mailto:tyler.allen@hdrinc.com) or Molly Dimick of Simplot at (208) 220-6597 or at [molly.dimick@simplot.com](mailto:molly.dimick@simplot.com).

Respectfully,  
**HDR Engineering, Inc.**



Tyler Allen  
Senior Environmental Scientist

Attachments:      Batch 9 Pre Treatment EDB 7-7-2022 (J17966-1) Lab Report.pdf  
                          Batch 10 Pre Treatment 7-11-2022 EDB (J17997-1) Lab Report.pdf  
                          Batch 11 Pre Treatment 7-13-2022 (J18027-1) Lab Report  
                          Batch 12 Pre Treatment 7-21-2022 (J18119-1) Lab Report  
                          Batch 13 Pre Treatment EDB 7-25-22 (J18150-1) Lab Report.pdf  
                          Batch 14 Pre Treatment EDB 7-27-22 (J18172-1) Lab Report.pdf  
                          Batch 15 PreTreatment EDB July 29 (J18194-1 ) Lab Report.pdf

CC:                    Molly Dimick, J.R. Simplot Company  
                          Stacey Lamer, HDR

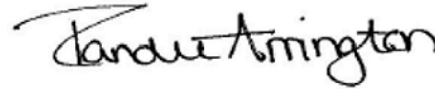
## ANALYTICAL REPORT

Eurofins Spokane  
11922 East 1st Ave  
Spokane, WA 99206  
Tel: (509)924-9200

Laboratory Job ID: 590-17966-1  
Client Project/Site: Simplot Warden

For:  
HDR Inc  
1401 E. Trent Ave  
Suite 101  
Spokane, Washington 99202

Attn: Jered Newcomb



*Authorized for release by:  
7/8/2022 1:49:09 PM*

Randee Arrington, Lab Director  
(509)924-9200  
[Randee.Arrington@et.eurofinsus.com](mailto:Randee.Arrington@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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



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# Case Narrative

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17966-1

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**Job ID: 590-17966-1**

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**Laboratory: Eurofins Spokane**

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**Narrative**

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**Receipt**

The samples were received on 7/7/2022 2:43 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

**GC Semi VOA**

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

**General Chemistry**

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

**Organic Prep**

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

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# Sample Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17966-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-17966-1	SVE-Soil-July7-9Pre1	Solid	07/07/22 12:29	07/07/22 14:43
590-17966-2	SVE-Soil-July7-9Pre2	Solid	07/07/22 12:32	07/07/22 14:43
590-17966-3	SVE-Soil-July7-9Pre3	Solid	07/07/22 12:34	07/07/22 14:43
590-17966-4	SVE-Soil-July7-9Pre4	Solid	07/07/22 12:37	07/07/22 14:43
590-17966-5	Trip Blank	Solid	07/07/22 00:00	07/07/22 14:43

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# Definitions/Glossary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17966-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count



# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17966-1

Client Sample ID: SVE-Soil-July7-9Pre1

Lab Sample ID: 590-17966-1

Date Collected: 07/07/22 12:29

Matrix: Solid

Date Received: 07/07/22 14:43

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.01	0.01	%			07/07/22 17:01	1
Percent Solids	90.2		0.01	0.01	%			07/07/22 17:01	1

Client Sample ID: SVE-Soil-July7-9Pre1

Lab Sample ID: 590-17966-1

Date Collected: 07/07/22 12:29

Matrix: Solid

Date Received: 07/07/22 14:43

Percent Solids: 90.2

## Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	07/08/22 09:44	07/08/22 10:47	1

Client Sample ID: SVE-Soil-July7-9Pre2

Lab Sample ID: 590-17966-2

Date Collected: 07/07/22 12:32

Matrix: Solid

Date Received: 07/07/22 14:43

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		0.01	0.01	%			07/07/22 17:01	1
Percent Solids	89.7		0.01	0.01	%			07/07/22 17:01	1

Client Sample ID: SVE-Soil-July7-9Pre2

Lab Sample ID: 590-17966-2

Date Collected: 07/07/22 12:32

Matrix: Solid

Date Received: 07/07/22 14:43

Percent Solids: 89.7

## Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.036	ug/Kg	☼	07/08/22 09:44	07/08/22 11:34	1

Client Sample ID: SVE-Soil-July7-9Pre3

Lab Sample ID: 590-17966-3

Date Collected: 07/07/22 12:34

Matrix: Solid

Date Received: 07/07/22 14:43

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.01	0.01	%			07/07/22 17:01	1
Percent Solids	91.0		0.01	0.01	%			07/07/22 17:01	1

Client Sample ID: SVE-Soil-July7-9Pre3

Lab Sample ID: 590-17966-3

Date Collected: 07/07/22 12:34

Matrix: Solid

Date Received: 07/07/22 14:43

Percent Solids: 91.0

## Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg	☼	07/08/22 09:44	07/08/22 11:50	1

Client Sample ID: SVE-Soil-July7-9Pre4

Lab Sample ID: 590-17966-4

Date Collected: 07/07/22 12:37

Matrix: Solid

Date Received: 07/07/22 14:43

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.01	0.01	%			07/07/22 17:01	1

Eurofins Spokane

# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17966-1

Client Sample ID: SVE-Soil-July7-9Pre4

Lab Sample ID: 590-17966-4

Date Collected: 07/07/22 12:37

Matrix: Solid

Date Received: 07/07/22 14:43

## General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.5		0.01	0.01	%			07/07/22 17:01	1

Client Sample ID: SVE-Soil-July7-9Pre4

Lab Sample ID: 590-17966-4

Date Collected: 07/07/22 12:37

Matrix: Solid

Date Received: 07/07/22 14:43

Percent Solids: 90.5

## Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.051	0.036	ug/Kg	☆	07/08/22 09:44	07/08/22 12:06	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-17966-5

Date Collected: 07/07/22 00:00

Matrix: Solid

Date Received: 07/07/22 14:43

## Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.049	0.034	ug/Kg		07/08/22 09:44	07/08/22 12:22	1

# QC Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17966-1

## Method: 8011 - EDB

**Lab Sample ID: MB 590-36962/2-A**  
**Matrix: Solid**  
**Analysis Batch: 36961**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 36962**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		07/08/22 09:44	07/08/22 10:17	1

**Lab Sample ID: LCS 590-36962/3-A**  
**Matrix: Solid**  
**Analysis Batch: 36961**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 36962**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.21		ug/Kg		121	60 - 140

**Lab Sample ID: 590-17966-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 36961**

**Client Sample ID: SVE-Soil-July7-9Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 36962**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		1.08	0.915		ug/Kg	⊛	85	60 - 140

**Lab Sample ID: 590-17966-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 36961**

**Client Sample ID: SVE-Soil-July7-9Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 36962**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.05	0.950		ug/Kg	⊛	90	60 - 140	4	20

## Method: Moisture - Percent Moisture

**Lab Sample ID: 590-17966-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 36957**

**Client Sample ID: SVE-Soil-July7-9Pre1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.8		10.5		%		6	20
Percent Solids	90.2		89.5		%		0.7	20

# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17966-1

**Client Sample ID: SVE-Soil-July7-9Pre1**

**Lab Sample ID: 590-17966-1**

Date Collected: 07/07/22 12:29

Matrix: Solid

Date Received: 07/07/22 14:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36957	07/07/22 17:01	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July7-9Pre1**

**Lab Sample ID: 590-17966-1**

Date Collected: 07/07/22 12:29

Matrix: Solid

Date Received: 07/07/22 14:43

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.26 g	2 mL	36962	07/08/22 09:44	NMI	TAL SPK
Total/NA	Analysis	8011		1			36961	07/08/22 10:47	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July7-9Pre2**

**Lab Sample ID: 590-17966-2**

Date Collected: 07/07/22 12:32

Matrix: Solid

Date Received: 07/07/22 14:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36957	07/07/22 17:01	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July7-9Pre2**

**Lab Sample ID: 590-17966-2**

Date Collected: 07/07/22 12:32

Matrix: Solid

Date Received: 07/07/22 14:43

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.72 g	2 mL	36962	07/08/22 09:44	NMI	TAL SPK
Total/NA	Analysis	8011		1			36961	07/08/22 11:34	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July7-9Pre3**

**Lab Sample ID: 590-17966-3**

Date Collected: 07/07/22 12:34

Matrix: Solid

Date Received: 07/07/22 14:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36957	07/07/22 17:01	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July7-9Pre3**

**Lab Sample ID: 590-17966-3**

Date Collected: 07/07/22 12:34

Matrix: Solid

Date Received: 07/07/22 14:43

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.90 g	2 mL	36962	07/08/22 09:44	NMI	TAL SPK
Total/NA	Analysis	8011		1			36961	07/08/22 11:50	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July7-9Pre4**

**Lab Sample ID: 590-17966-4**

Date Collected: 07/07/22 12:37

Matrix: Solid

Date Received: 07/07/22 14:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36957	07/07/22 17:01	NMI	TAL SPK

Eurofins Spokane

# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17966-1

**Client Sample ID: SVE-Soil-July7-9Pre4**

**Lab Sample ID: 590-17966-4**

**Date Collected: 07/07/22 12:37**

**Matrix: Solid**

**Date Received: 07/07/22 14:43**

**Percent Solids: 90.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.73 g	2 mL	36962	07/08/22 09:44	NMI	TAL SPK
Total/NA	Analysis	8011		1			36961	07/08/22 12:06	NMI	TAL SPK

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-17966-5**

**Date Collected: 07/07/22 00:00**

**Matrix: Solid**

**Date Received: 07/07/22 14:43**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.18 g	2 mL	36962	07/08/22 09:44	NMI	TAL SPK
Total/NA	Analysis	8011		1			36961	07/08/22 12:22	NMI	TAL SPK

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

# Accreditation/Certification Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17966-1

## Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-23

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
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# Method Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17966-1

Method	Method Description	Protocol	Laboratory
8011	EDB	EPA	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
8011	Microextraction	SW846	TAL SPK

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



### Chain of Custody Record

<b>Client Information</b> Client Contact: Jered Newcomb Company: HDR Inc Address: 835 N Post St. Ste. 101 City: Spokane State, Zip: WA, 99202 Phone: 509-899-4371 Email: jered.newcomb@hdrinc.com Project Name: Simplot Warden Site: Warden WA			Sampler: Jered Newcomb, JAN Phone: 509-899-4371 PWSID: _____			Lab PM: Arrington, Randee E E-Mail: Randee.Arrington@et.eurofinsus.com			Carrier Tracking No(s): _____ State of Origin: WA			COC No: _____ Page: Page 1 of 1 Job #: _____		
<b>Analysis Requested</b>						<b>Preservation Codes:</b>								
Due Date Requested:						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)								
TAT Requested (days): 24 hour						Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								
PO #: _____ Purchase Order Requested						WO #: _____								
Project #: 59002373						SSOW#: _____								
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011	EDB	Total Number of containers	Special Instructions/Note			
		Preservation Code:												
SVE-Soil-July 7 -9Pre1		7/7/2022	1229	G	S	N	N	X						
SVE-Soil-July 7 -9Pre2		7/7/2022	1232	G	S	N	N	X						
SVE-Soil-July 7 -9Pre3		7/7/2022	1234	G	S	N	N	X						
SVE-Soil-July 7 -9Pre4		7/7/2022	1237	G	S	N	N	X						
Trip Blank					S	N	N	X						
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Inflammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Deliverable Requested I II III, IV Other (specify)						Special Instructions/QC Requirements								
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:								
Relinquished by: Jered Newcomb		Date/Time: 7/7/22 1443		Company:		Received by: [Signature]		Date/Time: 7/7/22 1443		Company: [Signature]				
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:				
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Page 13 of 14			Cooler Temperature(s) °C and Other Remarks: 2 8°C (cool) 1/2026 7/8/2022							



# Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-17966-1

**Login Number: 17966**

**List Source: Eurofins Spokane**

**List Number: 1**

**Creator: Vaughan, Madison 1**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



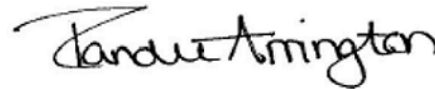
## ANALYTICAL REPORT

Eurofins Spokane  
11922 East 1st Ave  
Spokane, WA 99206  
Tel: (509)924-9200

Laboratory Job ID: 590-17997-1  
Client Project/Site: Simplot Warden

For:  
HDR Inc  
1401 E. Trent Ave  
Suite 101  
Spokane, Washington 99202

Attn: Jered Newcomb



*Authorized for release by:*  
7/12/2022 4:26:47 PM

Randee Arrington, Lab Director  
(509)924-9200  
[Randee.Arrington@et.eurofinsus.com](mailto:Randee.Arrington@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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



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# Case Narrative

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17997-1

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**Job ID: 590-17997-1**

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**Laboratory: Eurofins Spokane**

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## Narrative

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### Receipt

The samples were received on 7/11/2022 2:34 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.1° C.

### GC Semi VOA

Method 8011: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 590-37003 and analytical batch 590-37007 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

### General Chemistry

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

### Organic Prep

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

# Sample Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17997-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-17997-1	SVE-Soil-July11-10Pre1	Solid	07/11/22 12:34	07/11/22 14:34
590-17997-2	SVE-Soil-July11-10Pre2	Solid	07/11/22 12:37	07/11/22 14:34
590-17997-3	SVE-Soil-July11-10Pre3	Solid	07/11/22 12:40	07/11/22 14:34
590-17997-4	SVE-Soil-July11-10Pre4	Solid	07/11/22 12:43	07/11/22 14:34
590-17997-5	Trip Blank	Solid	07/11/22 00:00	07/11/22 14:34

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# Definitions/Glossary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17997-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17997-1

**Client Sample ID: SVE-Soil-July11-10Pre1**

**Lab Sample ID: 590-17997-1**

Date Collected: 07/11/22 12:34

Matrix: Solid

Date Received: 07/11/22 14:34

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.01	0.01	%			07/11/22 16:11	1
Percent Solids	90.6		0.01	0.01	%			07/11/22 16:11	1

**Client Sample ID: SVE-Soil-July11-10Pre1**

**Lab Sample ID: 590-17997-1**

Date Collected: 07/11/22 12:34

Matrix: Solid

Date Received: 07/11/22 14:34

Percent Solids: 90.6

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	F2	0.052	0.036	ug/Kg	☼	07/12/22 11:04	07/12/22 12:41	1

**Client Sample ID: SVE-Soil-July11-10Pre2**

**Lab Sample ID: 590-17997-2**

Date Collected: 07/11/22 12:37

Matrix: Solid

Date Received: 07/11/22 14:34

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.6		0.01	0.01	%			07/11/22 16:11	1
Percent Solids	89.4		0.01	0.01	%			07/11/22 16:11	1

**Client Sample ID: SVE-Soil-July11-10Pre2**

**Lab Sample ID: 590-17997-2**

Date Collected: 07/11/22 12:37

Matrix: Solid

Date Received: 07/11/22 14:34

Percent Solids: 89.4

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	07/12/22 11:04	07/12/22 13:30	1

**Client Sample ID: SVE-Soil-July11-10Pre3**

**Lab Sample ID: 590-17997-3**

Date Collected: 07/11/22 12:40

Matrix: Solid

Date Received: 07/11/22 14:34

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.01	0.01	%			07/11/22 16:11	1
Percent Solids	90.1		0.01	0.01	%			07/11/22 16:11	1

**Client Sample ID: SVE-Soil-July11-10Pre3**

**Lab Sample ID: 590-17997-3**

Date Collected: 07/11/22 12:40

Matrix: Solid

Date Received: 07/11/22 14:34

Percent Solids: 90.1

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	☼	07/12/22 11:04	07/12/22 13:46	1

**Client Sample ID: SVE-Soil-July11-10Pre4**

**Lab Sample ID: 590-17997-4**

Date Collected: 07/11/22 12:43

Matrix: Solid

Date Received: 07/11/22 14:34

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.01	0.01	%			07/11/22 16:11	1

Eurofins Spokane

# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17997-1

**Client Sample ID: SVE-Soil-July11-10Pre4**

**Lab Sample ID: 590-17997-4**

Date Collected: 07/11/22 12:43

Matrix: Solid

Date Received: 07/11/22 14:34

## General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.9		0.01	0.01	%			07/11/22 16:11	1

**Client Sample ID: SVE-Soil-July11-10Pre4**

**Lab Sample ID: 590-17997-4**

Date Collected: 07/11/22 12:43

Matrix: Solid

Date Received: 07/11/22 14:34

Percent Solids: 89.9

## Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.036	ug/Kg	✱	07/12/22 11:04	07/12/22 14:02	1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-17997-5**

Date Collected: 07/11/22 00:00

Matrix: Solid

Date Received: 07/11/22 14:34

## Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		07/12/22 11:04	07/12/22 14:19	1



# QC Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17997-1

## Method: 8011 - EDB

**Lab Sample ID: MB 590-37003/2-A**  
**Matrix: Solid**  
**Analysis Batch: 37007**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 37003**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		07/12/22 11:04	07/12/22 12:08	1

**Lab Sample ID: LCS 590-37003/3-A**  
**Matrix: Solid**  
**Analysis Batch: 37007**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 37003**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.28		ug/Kg		128	60 - 140

**Lab Sample ID: 590-17997-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 37007**

**Client Sample ID: SVE-Soil-July11-10Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37003**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND	F2	1.08	1.03		ug/Kg	⊛	95	60 - 140

**Lab Sample ID: 590-17997-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 37007**

**Client Sample ID: SVE-Soil-July11-10Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37003**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND	F2	1.05	0.757	F2	ug/Kg	⊛	72	60 - 140	31	20

## Method: Moisture - Percent Moisture

**Lab Sample ID: 590-17997-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 36992**

**Client Sample ID: SVE-Soil-July11-10Pre1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.4		8.6		%		9	20
Percent Solids	90.6		91.4		%		0.9	20

# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17997-1

**Client Sample ID: SVE-Soil-July11-10Pre1**

**Lab Sample ID: 590-17997-1**

Date Collected: 07/11/22 12:34

Matrix: Solid

Date Received: 07/11/22 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36992	07/11/22 16:11	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July11-10Pre1**

**Lab Sample ID: 590-17997-1**

Date Collected: 07/11/22 12:34

Matrix: Solid

Date Received: 07/11/22 14:34

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.63 g	2 mL	37003	07/12/22 11:04	NMI	TAL SPK
Total/NA	Analysis	8011		1			37007	07/12/22 12:41	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July11-10Pre2**

**Lab Sample ID: 590-17997-2**

Date Collected: 07/11/22 12:37

Matrix: Solid

Date Received: 07/11/22 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36992	07/11/22 16:11	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July11-10Pre2**

**Lab Sample ID: 590-17997-2**

Date Collected: 07/11/22 12:37

Matrix: Solid

Date Received: 07/11/22 14:34

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.33 g	2 mL	37003	07/12/22 11:04	NMI	TAL SPK
Total/NA	Analysis	8011		1			37007	07/12/22 13:30	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July11-10Pre3**

**Lab Sample ID: 590-17997-3**

Date Collected: 07/11/22 12:40

Matrix: Solid

Date Received: 07/11/22 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36992	07/11/22 16:11	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July11-10Pre3**

**Lab Sample ID: 590-17997-3**

Date Collected: 07/11/22 12:40

Matrix: Solid

Date Received: 07/11/22 14:34

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.04 g	2 mL	37003	07/12/22 11:04	NMI	TAL SPK
Total/NA	Analysis	8011		1			37007	07/12/22 13:46	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July11-10Pre4**

**Lab Sample ID: 590-17997-4**

Date Collected: 07/11/22 12:43

Matrix: Solid

Date Received: 07/11/22 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36992	07/11/22 16:11	NMI	TAL SPK

Eurofins Spokane

# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17997-1

**Client Sample ID: SVE-Soil-July11-10Pre4**

**Lab Sample ID: 590-17997-4**

**Date Collected: 07/11/22 12:43**

**Matrix: Solid**

**Date Received: 07/11/22 14:34**

**Percent Solids: 89.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.78 g	2 mL	37003	07/12/22 11:04	NMI	TAL SPK
Total/NA	Analysis	8011		1			37007	07/12/22 14:02	NMI	TAL SPK

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-17997-5**

**Date Collected: 07/11/22 00:00**

**Matrix: Solid**

**Date Received: 07/11/22 14:34**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.70 g	2 mL	37003	07/12/22 11:04	NMI	TAL SPK
Total/NA	Analysis	8011		1			37007	07/12/22 14:19	NMI	TAL SPK

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

# Accreditation/Certification Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17997-1

## Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-23

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.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# Method Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-17997-1

Method	Method Description	Protocol	Laboratory
8011	EDB	EPA	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
8011	Microextraction	SW846	TAL SPK

**Protocol References:**

EPA = US Environmental Protection Agency


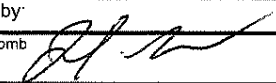
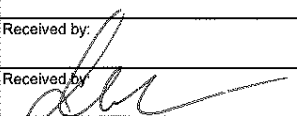
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



## Chain of Custody Record

<b>Client Information</b> Client Contact: Jered Newcomb		Sampler: Jered Newcomb JAN		Lab PM: Arrington Randee E		Carrier Tracking No(s):		COC No:			
		Phone: 509-899-4371		E-Mail: Randee.Arrington@et.eurofinsus.com		State of Origin: WA		Page: Page 1 of 1			
Company: HDR inc		PWSID:		<b>Analysis Requested</b>						Job #:	
Address: 835 N Post St. Ste 101		Due Date Requested:								Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8011 EDB	
City: Spokane		TAT Requested (days): 24 hour									
State, Zip: WA, 99202		Compliance Project:   Δ Yes   Δ No									
Phone: 509-899-4371		PO #: Purchase Order Requested									
Email: jered.newcomb@hdrinc.com		WO #:									
Project Name: Simplot Warden		Project #: 59002373									
Site: Warden WA		SSOW#:									
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oi BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note.	
						Preservation Code:					
SVE-Soil-July 11 10Pre1		7/11/2022	1234	G	S	N	N	X			
SVE-Soil-July 11 10Pre2		7/11/2022	1237	G	S	N	N	X			
SVE-Soil-July 11 10Pre3		7/11/2022	1240	G	S	N	N	X			
SVE-Soil-July 11 10Pre4		7/11/2022	1243	G	S	N	N	X			
Trip Blank					S	N	N	X			
<div style="display: flex; justify-content: center; align-items: center;">  <div style="margin-left: 10px;"> <p>590-17997 Chain of Custody</p> </div> </div>											
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: Jered Newcomb 		Date/Time: 7/11/22 1434		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by: 		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: 7/11/22 1434		Company: FETSPO	
Custody Seals Intact: Δ Yes   Δ No		Custody Seal No.		Page 13 of 14		Cooler Temperature(s) °C and Other Remarks: 4.1°C cond 1Reef				7/12/2022	

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# Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-17997-1

**Login Number: 17997**

**List Source: Eurofins Spokane**

**List Number: 1**

**Creator: Vaughan, Madison 1**

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



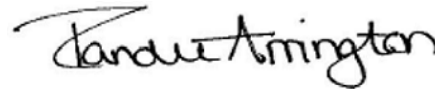
## ANALYTICAL REPORT

Eurofins Spokane  
11922 East 1st Ave  
Spokane, WA 99206  
Tel: (509)924-9200

Laboratory Job ID: 590-18027-1  
Client Project/Site: Simplot Warden

For:  
HDR Inc  
1401 E. Trent Ave  
Suite 101  
Spokane, Washington 99202

Attn: Jered Newcomb



*Authorized for release by:*  
7/15/2022 3:29:56 PM

Randee Arrington, Lab Director  
(509)924-9200  
[Randee.Arrington@et.eurofinsus.com](mailto:Randee.Arrington@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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





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# Case Narrative

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18027-1

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**Job ID: 590-18027-1**

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**Laboratory: Eurofins Spokane**

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**Narrative**

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**Receipt**

The samples were received on 7/14/2022 8:07 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.1° C.

**GC Semi VOA**

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

**General Chemistry**

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

**Organic Prep**

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

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# Sample Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18027-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18027-1	SVE-Soil-July13-11Pre1	Solid	07/13/22 12:47	07/14/22 08:07
590-18027-2	SVE-Soil-July13-11Pre2	Solid	07/13/22 12:50	07/14/22 08:07
590-18027-3	SVE-Soil-July13-11Pre3	Solid	07/13/22 12:52	07/14/22 08:07
590-18027-4	SVE-Soil-July13-11Pre4	Solid	07/13/22 12:55	07/14/22 08:07
590-18027-5	Trip Blank	Solid	07/13/22 00:00	07/14/22 08:07

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# Definitions/Glossary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18027-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18027-1

**Client Sample ID: SVE-Soil-July13-11Pre1**

**Lab Sample ID: 590-18027-1**

Date Collected: 07/13/22 12:47

Matrix: Solid

Date Received: 07/14/22 08:07

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.8		0.01	0.01	%			07/14/22 15:16	1
Percent Solids	89.2		0.01	0.01	%			07/14/22 15:16	1

**Client Sample ID: SVE-Soil-July13-11Pre1**

**Lab Sample ID: 590-18027-1**

Date Collected: 07/13/22 12:47

Matrix: Solid

Date Received: 07/14/22 08:07

Percent Solids: 89.2

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	F2	0.055	0.038	ug/Kg	☼	07/14/22 11:22	07/14/22 13:05	1

**Client Sample ID: SVE-Soil-July13-11Pre2**

**Lab Sample ID: 590-18027-2**

Date Collected: 07/13/22 12:50

Matrix: Solid

Date Received: 07/14/22 08:07

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.01	0.01	%			07/14/22 15:16	1
Percent Solids	90.9		0.01	0.01	%			07/14/22 15:16	1

**Client Sample ID: SVE-Soil-July13-11Pre2**

**Lab Sample ID: 590-18027-2**

Date Collected: 07/13/22 12:50

Matrix: Solid

Date Received: 07/14/22 08:07

Percent Solids: 90.9

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	07/14/22 11:22	07/14/22 13:54	1

**Client Sample ID: SVE-Soil-July13-11Pre3**

**Lab Sample ID: 590-18027-3**

Date Collected: 07/13/22 12:52

Matrix: Solid

Date Received: 07/14/22 08:07

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.01	0.01	%			07/14/22 15:16	1
Percent Solids	92.0		0.01	0.01	%			07/14/22 15:16	1

**Client Sample ID: SVE-Soil-July13-11Pre3**

**Lab Sample ID: 590-18027-3**

Date Collected: 07/13/22 12:52

Matrix: Solid

Date Received: 07/14/22 08:07

Percent Solids: 92.0

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	07/14/22 11:22	07/14/22 14:11	1

**Client Sample ID: SVE-Soil-July13-11Pre4**

**Lab Sample ID: 590-18027-4**

Date Collected: 07/13/22 12:55

Matrix: Solid

Date Received: 07/14/22 08:07

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.01	0.01	%			07/14/22 15:16	1

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# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18027-1

**Client Sample ID: SVE-Soil-July13-11Pre4**

**Lab Sample ID: 590-18027-4**

Date Collected: 07/13/22 12:55

Matrix: Solid

Date Received: 07/14/22 08:07

**General Chemistry (Continued)**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.3		0.01	0.01	%			07/14/22 15:16	1

**Client Sample ID: SVE-Soil-July13-11Pre4**

**Lab Sample ID: 590-18027-4**

Date Collected: 07/13/22 12:55

Matrix: Solid

Date Received: 07/14/22 08:07

Percent Solids: 90.3

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	✱	07/14/22 11:22	07/14/22 14:26	1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-18027-5**

Date Collected: 07/13/22 00:00

Matrix: Solid

Date Received: 07/14/22 08:07

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		07/14/22 11:22	07/14/22 14:43	1

# QC Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18027-1

## Method: 8011 - EDB

**Lab Sample ID: MB 590-37055/3-A**  
**Matrix: Solid**  
**Analysis Batch: 37054**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 37055**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		07/14/22 09:52	07/14/22 12:16	1

**Lab Sample ID: LCS 590-37055/4-A**  
**Matrix: Solid**  
**Analysis Batch: 37054**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 37055**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.31		ug/Kg		131	60 - 140

**Lab Sample ID: 590-18027-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 37054**

**Client Sample ID: SVE-Soil-July13-11Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37055**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND	F2	4.45	3.94		ug/Kg	☼	89	60 - 140

**Lab Sample ID: 590-18027-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 37054**

**Client Sample ID: SVE-Soil-July13-11Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37055**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND	F2	4.45	2.93	F2	ug/Kg	☼	66	60 - 140	29	20

## Method: Moisture - Percent Moisture

**Lab Sample ID: 590-18027-4 DU**  
**Matrix: Solid**  
**Analysis Batch: 37073**

**Client Sample ID: SVE-Soil-July13-11Pre4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.7		9.1		%		6	20
Percent Solids	90.3		90.9		%		0.7	20

# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18027-1

**Client Sample ID: SVE-Soil-July13-11Pre1**

**Lab Sample ID: 590-18027-1**

Date Collected: 07/13/22 12:47

Matrix: Solid

Date Received: 07/14/22 08:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37073	07/14/22 15:16	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July13-11Pre1**

**Lab Sample ID: 590-18027-1**

Date Collected: 07/13/22 12:47

Matrix: Solid

Date Received: 07/14/22 08:07

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.24 g	2 mL	37055	07/14/22 11:22	NMI	TAL SPK
Total/NA	Analysis	8011		1			37054	07/14/22 13:05	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July13-11Pre2**

**Lab Sample ID: 590-18027-2**

Date Collected: 07/13/22 12:50

Matrix: Solid

Date Received: 07/14/22 08:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37073	07/14/22 15:16	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July13-11Pre2**

**Lab Sample ID: 590-18027-2**

Date Collected: 07/13/22 12:50

Matrix: Solid

Date Received: 07/14/22 08:07

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.45 g	2 mL	37055	07/14/22 11:22	NMI	TAL SPK
Total/NA	Analysis	8011		1			37054	07/14/22 13:54	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July13-11Pre3**

**Lab Sample ID: 590-18027-3**

Date Collected: 07/13/22 12:52

Matrix: Solid

Date Received: 07/14/22 08:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37073	07/14/22 15:16	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July13-11Pre3**

**Lab Sample ID: 590-18027-3**

Date Collected: 07/13/22 12:52

Matrix: Solid

Date Received: 07/14/22 08:07

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.13 g	2 mL	37055	07/14/22 11:22	NMI	TAL SPK
Total/NA	Analysis	8011		1			37054	07/14/22 14:11	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July13-11Pre4**

**Lab Sample ID: 590-18027-4**

Date Collected: 07/13/22 12:55

Matrix: Solid

Date Received: 07/14/22 08:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37073	07/14/22 15:16	NMI	TAL SPK

Eurofins Spokane



# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18027-1

**Client Sample ID: SVE-Soil-July13-11Pre4**

**Lab Sample ID: 590-18027-4**

**Date Collected: 07/13/22 12:55**

**Matrix: Solid**

**Date Received: 07/14/22 08:07**

**Percent Solids: 90.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.31 g	2 mL	37055	07/14/22 11:22	NMI	TAL SPK
Total/NA	Analysis	8011		1			37054	07/14/22 14:26	NMI	TAL SPK

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-18027-5**

**Date Collected: 07/13/22 00:00**

**Matrix: Solid**

**Date Received: 07/14/22 08:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.70 g	2 mL	37055	07/14/22 11:22	NMI	TAL SPK
Total/NA	Analysis	8011		1			37054	07/14/22 14:43	NMI	TAL SPK

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

# Accreditation/Certification Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18027-1

## Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-23

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
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# Method Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18027-1

Method	Method Description	Protocol	Laboratory
8011	EDB	EPA	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
8011	Microextraction	SW846	TAL SPK

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

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# Chain of Custody Record

<b>Client Information</b>		Sampler: Jered Newcomb, JAN		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No:																					
Client Contact: Jered Newcomb		Phone: 509-899-4371		E-Mail: Randee.Arrington@et.eurofinsus.com		State of Origin: WA		Page: Page 1 of 1																					
Company: HDR Inc		PWSID:		<b>Analysis Requested</b>						Job #:																			
Address: 835 N Post St. Ste. 101		Due Date Requested:								Preservation Codes:																			
City: Spokane		TAT Requested (days): 24 hour		A HCL M Hexane		B NaOH N None		C Zn Acetate O AsNaO2																					
State, Zip: WA, 99202		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		D Nitric Acid P Na2O4S		E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3																					
Phone: 509-899-4371		PO #: Purchase Order Requested		G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate		I Ice U Acetone																					
Email: jered.newcomb@hdrinc.com		WO #:		J DI Water V MCAA		K EDTA W pH 4-5		L EDA Z other (specify)																					
Project Name: Simplot Warden		Project #: 59002373		Other:																									
Site: Warden WA		SSOW#:																											
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8011 EDB		Total Number of Containers		Special Instructions/Note:											
																				Preservation Code:									
SVE-Soil-July 11Pre1		7/13/2022		1247		G S		N N		X																			
SVE-Soil-July 11Pre2		7/13/2022		1250		G S		N N		X																			
SVE-Soil-July 11Pre3		7/13/2022		1252		G S		N N		X																			
SVE-Soil-July 11Pre4		7/13/2022		1255		G S		N N		X																			
Trip Blank						S		N N		X																			
 590-18027 Chain of Custody																													
<b>Possible Hazard Identification</b>										<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>																			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Volatile <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																			
Deliverable Requested: I II III IV Other (specify)										Special Instructions/QC Requirements.																			
Empty Kit Relinquished by:					Date:					Time:					Method of Shipment:														
Relinquished by: Jered Newcomb <i>[Signature]</i>					Date/Time: 7/14/22 7:50					Company:					Received by: <i>[Signature]</i>					Date/Time: 7/14/22 0807					Company: EEJTXG				
Relinquished by:					Date/Time:					Company:					Received by:					Date/Time:					Company:				
Relinquished by:					Date/Time:					Company:					Received by:					Date/Time:					Company:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No					Page 13 of 14					Cooler Temperature(s) °C and Other Remarks: 4.1°C corr HPOG					7/15/2022									

# Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18027-1

**Login Number: 18027**

**List Number: 1**

**Creator: Vaughan, Madison 1**

**List Source: Eurofins Spokane**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



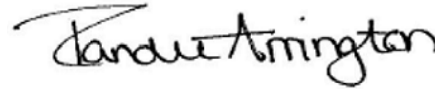
## ANALYTICAL REPORT

Eurofins Spokane  
11922 East 1st Ave  
Spokane, WA 99206  
Tel: (509)924-9200

Laboratory Job ID: 590-18119-1  
Client Project/Site: Simplot Warden

For:  
HDR Inc  
1401 E. Trent Ave  
Suite 101  
Spokane, Washington 99202

Attn: Jered Newcomb



*Authorized for release by:*  
7/22/2022 4:31:24 PM

Randee Arrington, Lab Director  
(509)924-9200  
[Randee.Arrington@et.eurofinsus.com](mailto:Randee.Arrington@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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



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# Case Narrative

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18119-1

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**Job ID: 590-18119-1**

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**Laboratory: Eurofins Spokane**

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## Narrative

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### Receipt

The samples were received on 7/21/2022 2:56 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

### GC Semi VOA

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

### General Chemistry

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

### Organic Prep

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

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# Sample Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18119-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18119-1	SVE-Soil-July21-12Pre1	Solid	07/21/22 07:58	07/21/22 14:56
590-18119-2	SVE-Soil-July21-12Pre2	Solid	07/21/22 08:00	07/21/22 14:56
590-18119-3	SVE-Soil-July21-12Pre3	Solid	07/21/22 08:04	07/21/22 14:56
590-18119-4	SVE-Soil-July21-12Pre4	Solid	07/21/22 08:06	07/21/22 14:56
590-18119-5	SVE-Soil-July21-12DUP	Solid	07/21/22 07:50	07/21/22 14:56
590-18119-6	Trip Blank	Solid	07/21/22 00:00	07/21/22 14:56

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# Definitions/Glossary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18119-1

## Qualifiers

### General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18119-1

**Client Sample ID: SVE-Soil-July21-12Pre1**

**Lab Sample ID: 590-18119-1**

Date Collected: 07/21/22 07:58

Matrix: Solid

Date Received: 07/21/22 14:56

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.046	0.032	ug/Kg		07/22/22 08:58	07/22/22 11:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.01	0.01	%			07/22/22 10:25	1
Percent Solids	89.9		0.01	0.01	%			07/22/22 10:25	1

**Client Sample ID: SVE-Soil-July21-12Pre2**

**Lab Sample ID: 590-18119-2**

Date Collected: 07/21/22 08:00

Matrix: Solid

Date Received: 07/21/22 14:56

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.049	0.035	ug/Kg		07/22/22 09:01	07/22/22 12:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.01	0.01	%			07/22/22 10:25	1
Percent Solids	90.6		0.01	0.01	%			07/22/22 10:25	1

**Client Sample ID: SVE-Soil-July21-12Pre3**

**Lab Sample ID: 590-18119-3**

Date Collected: 07/21/22 08:04

Matrix: Solid

Date Received: 07/21/22 14:56

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.049	0.035	ug/Kg		07/22/22 09:01	07/22/22 12:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.01	0.01	%			07/22/22 10:25	1
Percent Solids	89.8		0.01	0.01	%			07/22/22 10:25	1

**Client Sample ID: SVE-Soil-July21-12Pre4**

**Lab Sample ID: 590-18119-4**

Date Collected: 07/21/22 08:06

Matrix: Solid

Date Received: 07/21/22 14:56

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.048	0.034	ug/Kg		07/22/22 09:01	07/22/22 12:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.6		0.01	0.01	%			07/22/22 10:25	1
Percent Solids	89.4		0.01	0.01	%			07/22/22 10:25	1

# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18119-1

**Client Sample ID: SVE-Soil-July21-12DUP**

**Lab Sample ID: 590-18119-5**

Date Collected: 07/21/22 07:50

Matrix: Solid

Date Received: 07/21/22 14:56

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.049	0.034	ug/Kg		07/22/22 09:01	07/22/22 12:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.01	0.01	%			07/22/22 10:25	1
Percent Solids	90.5		0.01	0.01	%			07/22/22 10:25	1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-18119-6**

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/21/22 14:56

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		07/22/22 09:01	07/22/22 13:31	1

# QC Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18119-1

## Method: 8011 - EDB

**Lab Sample ID: MB 590-37180/2-A**  
**Matrix: Solid**  
**Analysis Batch: 37182**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 37180**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		07/22/22 08:58	07/22/22 10:31	1

**Lab Sample ID: LCS 590-37180/3-A**  
**Matrix: Solid**  
**Analysis Batch: 37182**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 37180**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.13		ug/Kg		113	60 - 140

**Lab Sample ID: 590-18119-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 37182**

**Client Sample ID: SVE-Soil-July21-12Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37180**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		0.979	0.959		ug/Kg		98	60 - 140

**Lab Sample ID: 590-18119-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 37182**

**Client Sample ID: SVE-Soil-July21-12Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37180**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		0.990	1.10		ug/Kg		111	60 - 140	14	20

## Method: Moisture - Percent Moisture

**Lab Sample ID: 590-18119-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 37188**

**Client Sample ID: SVE-Soil-July21-12Pre1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.1		8.1	F3	%		22	20
Percent Solids	89.9		91.9		%		2	20

# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18119-1

**Client Sample ID: SVE-Soil-July21-12Pre1**

**Lab Sample ID: 590-18119-1**

**Date Collected: 07/21/22 07:58**

**Matrix: Solid**

**Date Received: 07/21/22 14:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.85 g	2 mL	37180	07/22/22 08:58	NMI	TAL SPK
Total/NA	Analysis	8011		1			37182	07/22/22 11:20	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37188	07/22/22 10:25	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July21-12Pre2**

**Lab Sample ID: 590-18119-2**

**Date Collected: 07/21/22 08:00**

**Matrix: Solid**

**Date Received: 07/21/22 14:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.12 g	2 mL	37180	07/22/22 09:01	NMI	TAL SPK
Total/NA	Analysis	8011		1			37182	07/22/22 12:09	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37188	07/22/22 10:25	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July21-12Pre3**

**Lab Sample ID: 590-18119-3**

**Date Collected: 07/21/22 08:04**

**Matrix: Solid**

**Date Received: 07/21/22 14:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.13 g	2 mL	37180	07/22/22 09:01	NMI	TAL SPK
Total/NA	Analysis	8011		1			37182	07/22/22 12:26	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37188	07/22/22 10:25	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July21-12Pre4**

**Lab Sample ID: 590-18119-4**

**Date Collected: 07/21/22 08:06**

**Matrix: Solid**

**Date Received: 07/21/22 14:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.31 g	2 mL	37180	07/22/22 09:01	NMI	TAL SPK
Total/NA	Analysis	8011		1			37182	07/22/22 12:42	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37188	07/22/22 10:25	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July21-12DUP**

**Lab Sample ID: 590-18119-5**

**Date Collected: 07/21/22 07:50**

**Matrix: Solid**

**Date Received: 07/21/22 14:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.18 g	2 mL	37180	07/22/22 09:01	NMI	TAL SPK
Total/NA	Analysis	8011		1			37182	07/22/22 12:59	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37188	07/22/22 10:25	NMI	TAL SPK

# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18119-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-18119-6**

**Date Collected: 07/21/22 00:00**

**Matrix: Solid**

**Date Received: 07/21/22 14:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.56 g	2 mL	37180	07/22/22 09:01	NMI	TAL SPK
Total/NA	Analysis	8011		1			37182	07/22/22 13:31	NMI	TAL SPK

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

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# Accreditation/Certification Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18119-1

## Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-23

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.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids





# Method Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18119-1

Method	Method Description	Protocol	Laboratory
8011	EDB	EPA	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
8011	Microextraction	SW846	TAL SPK

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

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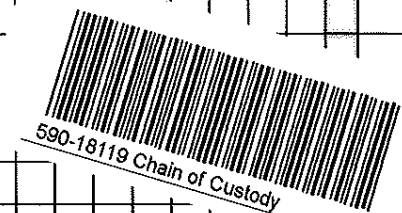
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# Chain of Custody Record

<b>Client Information</b>			Sampler: Jered Newcomb, JAN			Lab PM: Arrington, Randee E			Carrier Tracking No(s):			COC No:											
Client Contact: Jered Newcomb			Phone: 509-899-4371			E-Mail: Randee.Arrington@et.eurofinsus.com			State of Origin: WA			Page: Page 1 of 1											
Company: HDR Inc			PWSID:			<b>Analysis Requested</b>									Job #:								
Address: 835 N Post St. Ste. 101			Due Date Requested:												<b>Preservation Codes</b>			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:					
City: Spokane			TAT Requested (days): 24 hour																				
State, Zip: WA, 99202			Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																				
Phone: 509-899-4371			PO #: Purchase Order Requested																				
Email: jered.newcomb@hdrinc.com			WO #:																				
Project Name: Simplot Warden			Project #: 59002373			<b>Special Instructions/Note:</b>																	
Site: Warden WA			SSOW#:																				
<b>Sample Identification</b>			<b>Sample Date</b>		<b>Sample Time</b>							<b>Sample Type</b> (C=Comp, G=grab)	<b>Matrix</b> (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	8011 EDB	<b>Total Number of Containers</b>						
SVE-Soil-July 21 12Pre1			7/21/2022		758							G	S	N	N	X							
SVE-Soil-July 21 12Pre2			7/21/2022		800							G	S	N	N	X							
SVE-Soil-July 21 12Pre3			7/21/2022		804	G	S	N	N	X													
SVE-Soil-July 21 12Pre4			7/21/2022		806	G	S	N	N	X													
SVE-Soil-July 21 12DUP			7/21/2022		750	G	S	N	N	X													
Trip Blank							S	N	N	X													
<b>Possible Hazard Identification</b>												<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Volatile <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological												<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Deliverable Requested: I II III, IV Other (specify)												Special Instructions/QC Requirements.											
Empty Kit Relinquished by:						Date:			Time:			Method of Shipment:											
Relinquished by: Jered Newcomb <i>[Signature]</i>						Date/Time: 7/21/22 1455			Company:			Received by: <i>[Signature]</i>											
Relinquished by:						Date/Time:			Company:			Date/Time: 7/21/22 14:56											
Relinquished by:						Date/Time:			Company:			Date/Time:											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No.			Page 13 of 14			Cooler Temperature(s) °C and Other Remarks: 2.0°C 1970 11206			7/22/2022											



# Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18119-1

**Login Number: 18119**

**List Number: 1**

**Creator: Vaughan, Madison 1**

**List Source: Eurofins Spokane**

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.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	

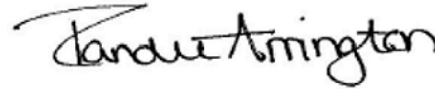
## ANALYTICAL REPORT

Eurofins Spokane  
11922 East 1st Ave  
Spokane, WA 99206  
Tel: (509)924-9200

Laboratory Job ID: 590-18150-1  
Client Project/Site: Simplot Warden

For:  
HDR Inc  
1401 E. Trent Ave  
Suite 101  
Spokane, Washington 99202

Attn: Jered Newcomb



*Authorized for release by:*  
7/26/2022 10:41:06 AM

Randee Arrington, Lab Director  
(509)924-9200  
[Randee.Arrington@et.eurofinsus.com](mailto:Randee.Arrington@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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



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# Case Narrative

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18150-1

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**Job ID: 590-18150-1**

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**Laboratory: Eurofins Spokane**

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## Narrative

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### Receipt

The samples were received on 7/25/2022 2:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

### GC Semi VOA

Method 8011: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 590-37210 and analytical batch 590-37211 was outside control limits. Sample matrix interference is suspected.

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

### General Chemistry

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

### Organic Prep

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

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# Sample Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18150-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18150-1	SVE-Soil-July25-13Pre1	Solid	07/25/22 12:42	07/25/22 14:40
590-18150-2	SVE-Soil-July25-13Pre2	Solid	07/25/22 12:45	07/25/22 14:40
590-18150-3	SVE-Soil-July25-13Pre3	Solid	07/25/22 12:49	07/25/22 14:40
590-18150-4	SVE-Soil-July25-13Pre4	Solid	07/25/22 12:51	07/25/22 14:40
590-18150-5	Trip Blank	Solid	07/25/22 00:00	07/25/22 14:40

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# Definitions/Glossary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18150-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count



# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18150-1

## Client Sample ID: SVE-Soil-July25-13Pre1

Lab Sample ID: 590-18150-1

Date Collected: 07/25/22 12:42

Matrix: Solid

Date Received: 07/25/22 14:40

### Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	F2	0.048	0.034	ug/Kg		07/25/22 15:46	07/25/22 23:11	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.01	0.01	%			07/25/22 15:34	1
Percent Solids	89.8		0.01	0.01	%			07/25/22 15:34	1

## Client Sample ID: SVE-Soil-July25-13Pre2

Lab Sample ID: 590-18150-2

Date Collected: 07/25/22 12:45

Matrix: Solid

Date Received: 07/25/22 14:40

### Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.048	0.034	ug/Kg		07/25/22 15:46	07/26/22 00:00	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.01	0.01	%			07/25/22 15:34	1
Percent Solids	91.6		0.01	0.01	%			07/25/22 15:34	1

## Client Sample ID: SVE-Soil-July25-13Pre3

Lab Sample ID: 590-18150-3

Date Collected: 07/25/22 12:49

Matrix: Solid

Date Received: 07/25/22 14:40

### Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.048	0.034	ug/Kg		07/25/22 15:46	07/26/22 00:15	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.01	0.01	%			07/25/22 15:34	1
Percent Solids	89.8		0.01	0.01	%			07/25/22 15:34	1

## Client Sample ID: SVE-Soil-July25-13Pre4

Lab Sample ID: 590-18150-4

Date Collected: 07/25/22 12:51

Matrix: Solid

Date Received: 07/25/22 14:40

### Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		07/25/22 15:48	07/26/22 00:31	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.01	0.01	%			07/25/22 15:34	1
Percent Solids	90.4		0.01	0.01	%			07/25/22 15:34	1

# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18150-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-18150-5**

**Date Collected: 07/25/22 00:00**

**Matrix: Solid**

**Date Received: 07/25/22 14:40**

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.046	0.032	ug/Kg		07/25/22 15:50	07/26/22 00:47	1

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# QC Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18150-1

## Method: 8011 - EDB

**Lab Sample ID: MB 590-37210/1-A**  
**Matrix: Solid**  
**Analysis Batch: 37211**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 37210**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		07/25/22 15:46	07/25/22 22:39	1

**Lab Sample ID: LCS 590-37210/2-A**  
**Matrix: Solid**  
**Analysis Batch: 37211**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 37210**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.21		ug/Kg		121	60 - 140

**Lab Sample ID: 590-18150-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 37211**

**Client Sample ID: SVE-Soil-July25-13Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37210**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND	F2	0.981	0.796		ug/Kg		81	60 - 140

**Lab Sample ID: 590-18150-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 37211**

**Client Sample ID: SVE-Soil-July25-13Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37210**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND	F2	0.994	0.614	F2	ug/Kg		62	60 - 140	26	20

# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18150-1

**Client Sample ID: SVE-Soil-July25-13Pre1**

**Lab Sample ID: 590-18150-1**

**Date Collected: 07/25/22 12:42**

**Matrix: Solid**

**Date Received: 07/25/22 14:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.35 g	2 mL	37210	07/25/22 15:46	NMI	TAL SPK
Total/NA	Analysis	8011		1			37211	07/25/22 23:11	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37208	07/25/22 15:34	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July25-13Pre2**

**Lab Sample ID: 590-18150-2**

**Date Collected: 07/25/22 12:45**

**Matrix: Solid**

**Date Received: 07/25/22 14:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.37 g	2 mL	37210	07/25/22 15:46	NMI	TAL SPK
Total/NA	Analysis	8011		1			37211	07/26/22 00:00	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37208	07/25/22 15:34	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July25-13Pre3**

**Lab Sample ID: 590-18150-3**

**Date Collected: 07/25/22 12:49**

**Matrix: Solid**

**Date Received: 07/25/22 14:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.38 g	2 mL	37210	07/25/22 15:46	NMI	TAL SPK
Total/NA	Analysis	8011		1			37211	07/26/22 00:15	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37208	07/25/22 15:34	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July25-13Pre4**

**Lab Sample ID: 590-18150-4**

**Date Collected: 07/25/22 12:51**

**Matrix: Solid**

**Date Received: 07/25/22 14:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.56 g	2 mL	37210	07/25/22 15:48	NMI	TAL SPK
Total/NA	Analysis	8011		1			37211	07/26/22 00:31	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37208	07/25/22 15:34	NMI	TAL SPK

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-18150-5**

**Date Collected: 07/25/22 00:00**

**Matrix: Solid**

**Date Received: 07/25/22 14:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.77 g	2 mL	37210	07/25/22 15:50	NMI	TAL SPK
Total/NA	Analysis	8011		1			37211	07/26/22 00:47	NMI	TAL SPK

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

# Accreditation/Certification Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18150-1

## Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-23

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
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# Method Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18150-1

Method	Method Description	Protocol	Laboratory
8011	EDB	EPA	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
8011	Microextraction	SW846	TAL SPK

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



# Chain of Custody Record

<b>Client Information</b>		Sampler: Jered Newcomb, JAN		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No:																																																																																																																									
Client Contact: Jered Newcomb		Phone: 509-899-4371		E-Mail: Randee.Arrington@et.eurofinsus.com		State of Origin: WA		Page: Page 1 of 1																																																																																																																									
Company: HDR Inc		PWSID:		<b>Analysis Requested</b>						Job #:																																																																																																																							
Address: 835 N Post St. Ste. 101		Due Date Requested:		<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td rowspan="5">8011 EDB</td> <td colspan="6"></td> <td rowspan="5">Total Number of Containers</td> <td colspan="2">Preservation Codes.</td> </tr> <tr> <td colspan="6"></td> <td>A HCL</td> <td>M Hexane</td> </tr> <tr> <td colspan="6"></td> <td>B NaOH</td> <td>N None</td> </tr> <tr> <td colspan="6"></td> <td>C Zn Acetate</td> <td>O AsNaO2</td> </tr> <tr> <td colspan="6"></td> <td>D Nitric Acid</td> <td>P Na2O4S</td> </tr> <tr> <td colspan="6"></td> <td>E NaHSO4</td> <td>Q Na2SO3</td> </tr> <tr> <td colspan="6"></td> <td>F MeOH</td> <td>R Na2S2O3</td> </tr> <tr> <td colspan="6"></td> <td>G Amchlor</td> <td>S H2SO4</td> </tr> <tr> <td colspan="6"></td> <td>H Ascorbic Acid</td> <td>T TSP Dodecahydrate</td> </tr> <tr> <td colspan="6"></td> <td>I Ice</td> <td>U Acetone</td> </tr> <tr> <td colspan="6"></td> <td>J DI Water</td> <td>V MCAA</td> </tr> <tr> <td colspan="6"></td> <td>K EDTA</td> <td>W pH 4-5</td> </tr> <tr> <td colspan="6"></td> <td>L EDA</td> <td>Z other (specify)</td> </tr> <tr> <td colspan="6"></td> <td colspan="2">Other:</td> <td colspan="2"></td> </tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 EDB							Total Number of Containers	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:				TAT Requested (days): 24 hour	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 EDB											Total Number of Containers	Preservation Codes.																																																																																																																			
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Phone: 509-899-4371		Purchase Order Requested																																																																																																																															
Email: jered.newcomb@hdrinc.com		WO #:																																																																																																																															
Project Name: Simplot Warden		Project #: 59002373																																																																																																																															
Site: Warden WA		SSOW#:																																																																																																																															
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=AI)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8011 EDB		Total Number of Containers		Special Instructions/Note:																																																																																																															
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SVE-Soil-July 25 13Pre1		7/25/2022		1242		G S		S		N N X																																																																																																																							
SVE-Soil-July 25 13Pre2		7/25/2022		1245		G S		S		N N X																																																																																																																							
SVE-Soil-July 25 13Pre3		7/25/2022		1249		G S		S		N N X																																																																																																																							
SVE-Soil-July 25 13Pre4		7/25/2022		1251		G S		S		N N X																																																																																																																							
Trip Blank								S		N N X																																																																																																																							



<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I II III IV Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Jered Newcomb <i>[Signature]</i>		Date/Time: 7/25/22 14:38		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by: <i>[Signature]</i>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 2.6°C low H2O6		Date/Time: 7/25/22 14:00	

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# Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18150-1

**Login Number: 18150**

**List Number: 1**

**Creator: Vaughan, Madison 1**

**List Source: Eurofins Spokane**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





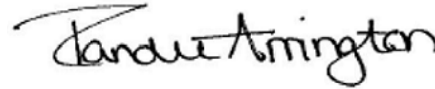
## ANALYTICAL REPORT

Eurofins Spokane  
11922 East 1st Ave  
Spokane, WA 99206  
Tel: (509)924-9200

Laboratory Job ID: 590-18172-1  
Client Project/Site: Simplot Warden

For:  
HDR Inc  
1401 E. Trent Ave  
Suite 101  
Spokane, Washington 99202

Attn: Jered Newcomb



*Authorized for release by:  
7/28/2022 5:00:51 PM*

Randee Arrington, Lab Director  
(509)924-9200  
[Randee.Arrington@et.eurofinsus.com](mailto:Randee.Arrington@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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



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# Case Narrative

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18172-1

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**Job ID: 590-18172-1**

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**Laboratory: Eurofins Spokane**

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**Narrative**

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**Receipt**

The samples were received on 7/27/2022 1:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

**GC Semi VOA**

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

**General Chemistry**

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

**Organic Prep**

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

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# Sample Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18172-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18172-1	SVE-Soil-July27-14Pre1	Solid	07/27/22 11:20	07/27/22 13:50
590-18172-2	SVE-Soil-July27-14Pre2	Solid	07/27/22 11:20	07/27/22 13:50
590-18172-3	SVE-Soil-July27-14Pre3	Solid	07/27/22 11:20	07/27/22 13:50
590-18172-4	SVE-Soil-July27-14Pre4	Solid	07/27/22 11:20	07/27/22 13:50
590-18172-5	Trip Blank	Solid	07/27/22 00:00	07/27/22 13:50

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# Definitions/Glossary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18172-1

## 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18172-1

**Client Sample ID: SVE-Soil-July27-14Pre1**

**Lab Sample ID: 590-18172-1**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.01	0.01	%			07/27/22 15:26	1
Percent Solids	90.2		0.01	0.01	%			07/27/22 15:26	1

**Client Sample ID: SVE-Soil-July27-14Pre1**

**Lab Sample ID: 590-18172-1**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Percent Solids: 90.2

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.036	ug/Kg	☼	07/27/22 16:16	07/27/22 18:21	1

**Client Sample ID: SVE-Soil-July27-14Pre2**

**Lab Sample ID: 590-18172-2**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.01	0.01	%			07/27/22 15:26	1
Percent Solids	90.2		0.01	0.01	%			07/27/22 15:26	1

**Client Sample ID: SVE-Soil-July27-14Pre2**

**Lab Sample ID: 590-18172-2**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Percent Solids: 90.2

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	07/27/22 16:16	07/27/22 19:11	1

**Client Sample ID: SVE-Soil-July27-14Pre3**

**Lab Sample ID: 590-18172-3**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.0		0.01	0.01	%			07/27/22 15:26	1
Percent Solids	90.0		0.01	0.01	%			07/27/22 15:26	1

**Client Sample ID: SVE-Soil-July27-14Pre3**

**Lab Sample ID: 590-18172-3**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Percent Solids: 90.0

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.036	ug/Kg	☼	07/27/22 16:16	07/27/22 19:28	1

**Client Sample ID: SVE-Soil-July27-14Pre4**

**Lab Sample ID: 590-18172-4**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.01	0.01	%			07/27/22 15:26	1

Eurofins Spokane

# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18172-1

**Client Sample ID: SVE-Soil-July27-14Pre4**

**Lab Sample ID: 590-18172-4**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

**General Chemistry (Continued)**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.6		0.01	0.01	%			07/27/22 15:26	1

**Client Sample ID: SVE-Soil-July27-14Pre4**

**Lab Sample ID: 590-18172-4**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Percent Solids: 90.6

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	07/27/22 16:16	07/27/22 19:45	1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-18172-5**

Date Collected: 07/27/22 00:00

Matrix: Solid

Date Received: 07/27/22 13:50

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		07/27/22 16:38	07/27/22 20:01	1

# QC Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18172-1

## Method: 8011 - EDB

**Lab Sample ID: MB 590-37262/2-A**  
**Matrix: Solid**  
**Analysis Batch: 37263**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 37262**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		07/27/22 16:16	07/27/22 17:47	1

**Lab Sample ID: LCS 590-37262/3-A**  
**Matrix: Solid**  
**Analysis Batch: 37263**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 37262**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.12		ug/Kg		112	60 - 140

**Lab Sample ID: 590-18172-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 37263**

**Client Sample ID: SVE-Soil-July27-14Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37262**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		1.07	0.965		ug/Kg	⊛	90	60 - 140

**Lab Sample ID: 590-18172-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 37263**

**Client Sample ID: SVE-Soil-July27-14Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37262**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.09	1.09		ug/Kg	⊛	100	60 - 140	12	20

## Method: Moisture - Percent Moisture

**Lab Sample ID: 590-18172-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 37260**

**Client Sample ID: SVE-Soil-July27-14Pre1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.8		9.3		%		5	20
Percent Solids	90.2		90.7		%		0.6	20

**Lab Sample ID: 590-18172-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 37260**

**Client Sample ID: SVE-Soil-July27-14Pre2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.8		9.7		%		0.4	20
Percent Solids	90.2		90.3		%		0.05	20



# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18172-1

**Client Sample ID: SVE-Soil-July27-14Pre1**

**Lab Sample ID: 590-18172-1**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37260	07/27/22 15:26	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July27-14Pre1**

**Lab Sample ID: 590-18172-1**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.72 g	2 mL	37262	07/27/22 16:16	NMI	TAL SPK
Total/NA	Analysis	8011		1			37263	07/27/22 18:21	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July27-14Pre2**

**Lab Sample ID: 590-18172-2**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37260	07/27/22 15:26	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July27-14Pre2**

**Lab Sample ID: 590-18172-2**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.47 g	2 mL	37262	07/27/22 16:16	NMI	TAL SPK
Total/NA	Analysis	8011		1			37263	07/27/22 19:11	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July27-14Pre3**

**Lab Sample ID: 590-18172-3**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37260	07/27/22 15:26	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July27-14Pre3**

**Lab Sample ID: 590-18172-3**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.66 g	2 mL	37262	07/27/22 16:16	NMI	TAL SPK
Total/NA	Analysis	8011		1			37263	07/27/22 19:28	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July27-14Pre4**

**Lab Sample ID: 590-18172-4**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37260	07/27/22 15:26	NMI	TAL SPK

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# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18172-1

**Client Sample ID: SVE-Soil-July27-14Pre4**

**Lab Sample ID: 590-18172-4**

Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.06 g	2 mL	37262	07/27/22 16:16	NMI	TAL SPK
Total/NA	Analysis	8011		1			37263	07/27/22 19:45	NMI	TAL SPK

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-18172-5**

Date Collected: 07/27/22 00:00

Matrix: Solid

Date Received: 07/27/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.72 g	2 mL	37262	07/27/22 16:38	NMI	TAL SPK
Total/NA	Analysis	8011		1			37263	07/27/22 20:01	NMI	TAL SPK

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



# Accreditation/Certification Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18172-1

## Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-23

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
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# Method Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18172-1

Method	Method Description	Protocol	Laboratory
8011	EDB	EPA	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
8011	Microextraction	SW846	TAL SPK

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

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# Chain of Custody Record

<b>Client Information</b>		Sampler: Jered Newcomb, JAN		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No:					
Client Contact: Jered Newcomb		Phone: 509-899-4371		E-Mail: Randee.Arrington@et.eurofinsus.com		State of Origin: WA		Page: Page 1 of 1					
Company: HDR Inc		PWSID:		<b>Analysis Requested</b>						Job #:			
Address: 835 N Post St. Ste 101		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8011 EDB						Total Number of Containers		<b>Preservation Codes</b> A HCL                    M Hexane B NaOH                  N None C Zn Acetate            O AsNaO2 D Nitric Acid            P Na2O4S E NaHSO4                Q Na2SO3 F MeCH                  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:	
City: Spokane		TAT Requested (days): <b>24 hour</b>											
State, Zip: WA, 99202		Compliance Project:    Δ Yes    Δ No											
Phone: 509-899-4371		PO #: Purchase Order Requested											
Email: jered.newcomb@hdrinc.com		WO #:											
Project Name: Simplot Warden		Project #: 59002373											
Site: Warden WA		SSOW#:											
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011	EDB	Total Number of Containers	<b>Special Instructions/Note:</b>		
											Preservation Code: N		
SVE-Soil-July 27 14Pre1		7/27/2022		G	S	N	N	X					
SVE-Soil-July 27 14Pre2		7/27/2022		G	S	N	N	X					
SVE-Soil-July 27 14Pre3		7/27/2022	1120	G	S	N	N	X					
SVE-Soil-July 27 14Pre4		7/27/2022		G	S	N	N	X					
Trip Blank					S	N	N	X					




<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV Other (specify)				Special Instructions/QC Requirements			
Empty Kit Relinquished by:		Date:		Time		Method of Shipment:	
Relinquished by: Jered Newcomb		Date/Time: 7/27/22 1350		Company:		Received by: [Signature]	
Relinquished by:		Date/Time:		Company:		Date/Time: 7/27/22 1350	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 2-9°C (cool) 1 Root 7/28/2022			

Lab/Client Opening

11922 East 1st Ave  
 Spokane, WA 99206  
 Phone (509) 924-9200 Phone (509) 924-9290

# Chain of Custody Record

<b>Client Information</b>				Sampler Jerred Newcomb, JAN	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No:					
Client Contact: Jerred Newcomb				Phone: 509-899-4371	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin: WA	Page: Page 1 of 1					
Company: HDR Inc				PWSID:		Job #:						
Address: 835 N Post St. Ste 101				<b>Analysis Requested</b>				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 EDTA                      Z other (specify)  Other:				
City: Spokane									Due Date Requested:			
State, Zip: WA, 99202									TAT Requested (days): 24 hour			
Phone: 509-899-4371									Compliance Project: <input type="checkbox"/> A Yes <input type="checkbox"/> No			
Email: jerred.newcomb@hdrinc.com									PO #: Purchase Order Requested			
Project Name: Simplot Warden									WO #:			
Site: Warden WA				Project #: 59002373	SSOW#:							
<b>Sample Identification</b>				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefill, BT=leachate, A=Air)	Field Filtered Sample (Yes or No)	Performs MS/MS (Yes or No)	Total Number of Containers		Special Instructions/Note:
SVE-Soil-July 27 14Pre1				7/27/2022	1114	G	S	N	N	X		
SVE-Soil-July 27 14Pre2				7/27/2022	1118	G	S	N	N	X		
SVE-Soil-July 27 14Pre3				7/27/2022	1120	G	S	N	N	X		
SVE-Soil-July 27 -14Pre4				7/27/2022	1123	G	S	N	N	X		
Trip Blank							S	N	N	X		
 590-18172 Chain of Custody												
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Ammable <input type="checkbox"/> Solitant <input type="checkbox"/> Poison B <input type="checkbox"/> Known <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV Other (specify)						Special Instructions/QC Requirements.						
Empty Kit Relinquished by:				Date:	Time:	Method of Shipment:						
Relinquished by: Jerred Newcomb				Date/Time: 7/27/22 1350	Company:	Received by:	Date/Time: 7/27/22, 1:00	Company:				
Relinquished by:				Date/Time:	Company:	Received by:	Date/Time:	Company:				
Relinquished by:				Date/Time:	Company:	Received by:	Date/Time:	Company:				
Custody Seals Intact:		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:								

## Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18172-1

**Login Number: 18172**

**List Number: 1**

**Creator: Vaughan, Madison 1**

**List Source: Eurofins Spokane**

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.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	

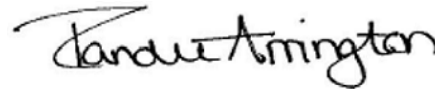
## ANALYTICAL REPORT

Eurofins Spokane  
11922 East 1st Ave  
Spokane, WA 99206  
Tel: (509)924-9200

Laboratory Job ID: 590-18194-1  
Client Project/Site: Simplot Warden

For:  
HDR Inc  
1401 E. Trent Ave  
Suite 101  
Spokane, Washington 99202

Attn: Jered Newcomb



*Authorized for release by:  
8/1/2022 5:17:51 PM*

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

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





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# Case Narrative

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18194-1

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**Job ID: 590-18194-1**

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**Laboratory: Eurofins Spokane**

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**Narrative**

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**Receipt**

The samples were received on 7/29/2022 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9° C.

**GC Semi VOA**

Method 8011: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 590-37318 and analytical batch 590-37326 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

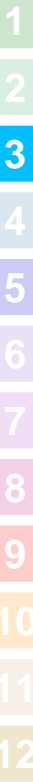
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**General Chemistry**

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

**Organic Prep**

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



# Sample Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18194-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18194-1	SVE-Soil-July29-15Pre1	Solid	07/29/22 08:15	07/29/22 10:25
590-18194-2	SVE-Soil-July29-15Pre2	Solid	07/29/22 08:17	07/29/22 10:25
590-18194-3	SVE-Soil-July29-15Pre3	Solid	07/29/22 08:19	07/29/22 10:25
590-18194-4	SVE-Soil-July29-15Pre4	Solid	07/29/22 08:21	07/29/22 10:25
590-18194-5	SVE-Soil-July29-15Dup	Solid	07/29/22 08:00	07/29/22 10:25
590-18194-6	Trip Blank	Solid	07/29/22 00:00	07/29/22 10:25

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# Definitions/Glossary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18194-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18194-1

**Client Sample ID: SVE-Soil-July29-15Pre1**

**Lab Sample ID: 590-18194-1**

Date Collected: 07/29/22 08:15

Matrix: Solid

Date Received: 07/29/22 10:25

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.01	0.01	%			08/01/22 09:30	1
Percent Solids	89.8		0.01	0.01	%			08/01/22 09:30	1

**Client Sample ID: SVE-Soil-July29-15Pre1**

**Lab Sample ID: 590-18194-1**

Date Collected: 07/29/22 08:15

Matrix: Solid

Date Received: 07/29/22 10:25

Percent Solids: 89.8

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	F2	0.052	0.036	ug/Kg	☼	08/01/22 08:30	08/01/22 10:05	1

**Client Sample ID: SVE-Soil-July29-15Pre2**

**Lab Sample ID: 590-18194-2**

Date Collected: 07/29/22 08:17

Matrix: Solid

Date Received: 07/29/22 10:25

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.01	0.01	%			08/01/22 09:30	1
Percent Solids	90.5		0.01	0.01	%			08/01/22 09:30	1

**Client Sample ID: SVE-Soil-July29-15Pre2**

**Lab Sample ID: 590-18194-2**

Date Collected: 07/29/22 08:17

Matrix: Solid

Date Received: 07/29/22 10:25

Percent Solids: 90.5

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.036	ug/Kg	☼	08/01/22 08:30	08/01/22 10:54	1

**Client Sample ID: SVE-Soil-July29-15Pre3**

**Lab Sample ID: 590-18194-3**

Date Collected: 07/29/22 08:19

Matrix: Solid

Date Received: 07/29/22 10:25

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		0.01	0.01	%			08/01/22 09:30	1
Percent Solids	89.7		0.01	0.01	%			08/01/22 09:30	1

**Client Sample ID: SVE-Soil-July29-15Pre3**

**Lab Sample ID: 590-18194-3**

Date Collected: 07/29/22 08:19

Matrix: Solid

Date Received: 07/29/22 10:25

Percent Solids: 89.6

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	08/01/22 08:30	08/01/22 11:11	1

**Client Sample ID: SVE-Soil-July29-15Pre4**

**Lab Sample ID: 590-18194-4**

Date Collected: 07/29/22 08:21

Matrix: Solid

Date Received: 07/29/22 10:25

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.01	0.01	%			08/01/22 09:30	1

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# Client Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18194-1

**Client Sample ID: SVE-Soil-July29-15Pre4**

**Lab Sample ID: 590-18194-4**

Date Collected: 07/29/22 08:21

Matrix: Solid

Date Received: 07/29/22 10:25

**General Chemistry (Continued)**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.3		0.01	0.01	%			08/01/22 09:30	1

**Client Sample ID: SVE-Soil-July29-15Pre4**

**Lab Sample ID: 590-18194-4**

Date Collected: 07/29/22 08:21

Matrix: Solid

Date Received: 07/29/22 10:25

Percent Solids: 90.3

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.051	0.036	ug/Kg	☼	08/01/22 08:30	08/01/22 11:27	1

**Client Sample ID: SVE-Soil-July29-15Dup**

**Lab Sample ID: 590-18194-5**

Date Collected: 07/29/22 08:00

Matrix: Solid

Date Received: 07/29/22 10:25

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.01	0.01	%			08/01/22 09:30	1
Percent Solids	88.8		0.01	0.01	%			08/01/22 09:30	1

**Client Sample ID: SVE-Soil-July29-15Dup**

**Lab Sample ID: 590-18194-5**

Date Collected: 07/29/22 08:00

Matrix: Solid

Date Received: 07/29/22 10:25

Percent Solids: 88.8

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	08/01/22 08:30	08/01/22 11:43	1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-18194-6**

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 10:25

**Method: 8011 - EDB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		08/01/22 08:30	08/01/22 12:00	1

# QC Sample Results

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18194-1

## Method: 8011 - EDB

**Lab Sample ID: MB 590-37318/2-A**  
**Matrix: Solid**  
**Analysis Batch: 37326**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 37318**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		08/01/22 08:30	08/01/22 09:33	1

**Lab Sample ID: LCS 590-37318/3-A**  
**Matrix: Solid**  
**Analysis Batch: 37326**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 37318**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.04		ug/Kg		104	60 - 140

**Lab Sample ID: 590-18194-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 37326**

**Client Sample ID: SVE-Soil-July29-15Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37318**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND	F2	1.07	0.695		ug/Kg	⊛	65	60 - 140

**Lab Sample ID: 590-18194-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 37326**

**Client Sample ID: SVE-Soil-July29-15Pre1**  
**Prep Type: Total/NA**  
**Prep Batch: 37318**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND	F2	1.09	0.951	F2	ug/Kg	⊛	87	60 - 140	31	20

## Method: Moisture - Percent Moisture

**Lab Sample ID: 590-18194-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 37321**

**Client Sample ID: SVE-Soil-July29-15Pre1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.2		10.6		%		4	20
Percent Solids	89.8		89.4		%		0.5	20

# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18194-1

**Client Sample ID: SVE-Soil-July29-15Pre1**

**Date Collected: 07/29/22 08:15**

**Date Received: 07/29/22 10:25**

**Lab Sample ID: 590-18194-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37321	08/01/22 09:30	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July29-15Pre1**

**Date Collected: 07/29/22 08:15**

**Date Received: 07/29/22 10:25**

**Lab Sample ID: 590-18194-1**

**Matrix: Solid**

**Percent Solids: 89.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.78 g	2 mL	37318	08/01/22 08:30	NMI	TAL SPK
Total/NA	Analysis	8011		1			37326	08/01/22 10:05	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July29-15Pre2**

**Date Collected: 07/29/22 08:17**

**Date Received: 07/29/22 10:25**

**Lab Sample ID: 590-18194-2**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37321	08/01/22 09:30	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July29-15Pre2**

**Date Collected: 07/29/22 08:17**

**Date Received: 07/29/22 10:25**

**Lab Sample ID: 590-18194-2**

**Matrix: Solid**

**Percent Solids: 90.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.73 g	2 mL	37318	08/01/22 08:30	NMI	TAL SPK
Total/NA	Analysis	8011		1			37326	08/01/22 10:54	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July29-15Pre3**

**Date Collected: 07/29/22 08:19**

**Date Received: 07/29/22 10:25**

**Lab Sample ID: 590-18194-3**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37321	08/01/22 09:30	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July29-15Pre3**

**Date Collected: 07/29/22 08:19**

**Date Received: 07/29/22 10:25**

**Lab Sample ID: 590-18194-3**

**Matrix: Solid**

**Percent Solids: 89.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.31 g	2 mL	37318	08/01/22 08:30	NMI	TAL SPK
Total/NA	Analysis	8011		1			37326	08/01/22 11:11	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July29-15Pre4**

**Date Collected: 07/29/22 08:21**

**Date Received: 07/29/22 10:25**

**Lab Sample ID: 590-18194-4**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37321	08/01/22 09:30	NMI	TAL SPK

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# Lab Chronicle

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18194-1

**Client Sample ID: SVE-Soil-July29-15Pre4**

**Lab Sample ID: 590-18194-4**

Date Collected: 07/29/22 08:21

Matrix: Solid

Date Received: 07/29/22 10:25

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.75 g	2 mL	37318	08/01/22 08:30	NMI	TAL SPK
Total/NA	Analysis	8011		1			37326	08/01/22 11:27	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July29-15Dup**

**Lab Sample ID: 590-18194-5**

Date Collected: 07/29/22 08:00

Matrix: Solid

Date Received: 07/29/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37321	08/01/22 09:30	NMI	TAL SPK

**Client Sample ID: SVE-Soil-July29-15Dup**

**Lab Sample ID: 590-18194-5**

Date Collected: 07/29/22 08:00

Matrix: Solid

Date Received: 07/29/22 10:25

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.61 g	2 mL	37318	08/01/22 08:30	NMI	TAL SPK
Total/NA	Analysis	8011		1			37326	08/01/22 11:43	NMI	TAL SPK

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-18194-6**

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.74 g	2 mL	37318	08/01/22 08:30	NMI	TAL SPK
Total/NA	Analysis	8011		1			37326	08/01/22 12:00	NMI	TAL SPK

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

# Accreditation/Certification Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18194-1

## Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-23

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.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# Method Summary

Client: HDR Inc  
Project/Site: Simplot Warden

Job ID: 590-18194-1

Method	Method Description	Protocol	Laboratory
8011	EDB	EPA	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
8011	Microextraction	SW846	TAL SPK

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

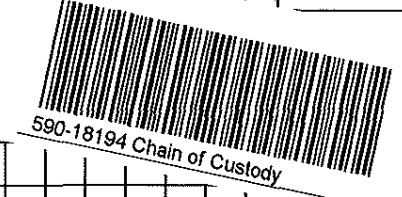


# Chain of Custody Record

<b>Client Information</b>	Sampler: Jered Newcomb, JAN	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No:
Client Contact: Jered Newcomb	Phone: 509-899-4371	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin: WA	Page: Page 1 of 1
Company: HDR Inc	PWSID:	<b>Analysis Requested</b>		Job #:

Address: 835 N Post St. Ste 101	Due Date Requested:	<b>Field Filtered Sample (Yes or No)</b> Perform MS/MSD (Yes or No)	8011 EDB	<b>Total Number of Containers</b>	<b>Preservation Codes</b> 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 Dodacahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)  Other:
City: Spokane	TAT Requested (days): 24 hour				
State Zip: WA, 99202	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Phone: 509-899-4371	PO #: Purchase Order Requested				
Email: jered.newcomb@hdrinc.com	WO #:				
Project Name: Simplot Warden	Project #: 59002373				
Site: Warden WA	SSOW#:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 EDB	Total Number of Containers	Special Instructions/Note
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
SVE-Soil-July 29 15Pre1	7/29/2022	815	G	S	N	N	X		
SVE-Soil-July 29 15Pre2	7/29/2022	817	G	S	N	N	X		
SVE-Soil-July 29 15Pre3	7/29/2022	819	G	S	N	N	X		
SVE-Soil-July 29 15Pre4	7/29/2022	821	G	S	N	N	X		
SVE-Soil-July 29 15DUP	7/29/2022	800	G	S	N	N	X		
Trip Blank				S	N	N	X		



<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I II III, IV Other (specify)	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date: 7/29/22	Time: 10:24	Method of Shipment:
Relinquished by: Jered Newcomb	Date/Time: 7/29/22 10:24	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 4.9°C Lard 11/20/22	8/1/2022
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# Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18194-1

**Login Number: 18194**

**List Source: Eurofins Spokane**

**List Number: 1**

**Creator: Vaughan, Madison 1**

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	
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.	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	

