



November 9, 2022

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

**Subject: Progress Report for October 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. 1st 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 October 2022

- Simplot continued 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 continued in accordance with the PTP (HDR May 2022) through early November 2023. Pre-treatment sampling consisting of four discrete core soil samples and the associated quality control (QC) samples were collected prior to treatment of each treatment batch and analyzed for EDB by Eurofins in Spokane, Washington on a rush 24-hour turnaround basis. Eurofins has reported all samples through October 2022 as non-detect for EDB with the exception of two detections: one each in Batch 31 and Batch 38. Pretreatment samples SVE-Soil-Sept15-31Pre4 results detected 0.062 µg/Kg EDB and SVE-Soil-Oct5-38Pre4 results in 0.065 µg/Kg, EDB which are below the CUL of 0.27 µg/Kg. EDB analytical results for treatment batches 37 through 50 are attached to this memo. The pilot study and treatment batches 1 through 8 are described in the June 2022 Progress Report. Treatment batches 27 through 36 are described in the September 2022 Progress Report.
- Simplot implemented a plan to increase frequency of treatment batch rotations to a frequency of every 48 hours, including weekends. On weekend batch swaps, the remediation contractor (GrayMar) was tasked with conducting soil sampling on Simplot's behalf; HDR provided sample media. Simplot tasked the remediation contractor with the responsibility to manage soils removed from treatment cell prior to receipt of laboratory analytical results including proper segregation, stockpile location tracking, and confirmation that results <CUL prior reuse as on-site backfill. If pre-treatment results are > CUL, the segregated batches were re-sampled; if post-treatment sample results were also > CUL, the batch would be placed back into the cell for additional treatment. For all batches processed on the 48-hour rotation, all pre-treatment samples were non-detect for EDB.
- One deviation from the PTP occurred during October. Two samples from Batch 40 (collected on 10/9/2022) were discovered to be damaged during transit/handling; HDR collected 2 additional samples approximately 48 hours after treatment started to supplement missing samples. This is a deviation only because 2 of 4 samples were collected prior to commencement treatment. Four samples were collected from this treatment batch were reported as non-detect for EDB.
- Simplot/HDR coordinated with GrayMar to remove treatment batch soils 37 through 50 for use as on-site backfill based on non-detect soil sample analytical results, in accordance with the CAIMP and PTP.
- Five soil investigative derived waste (IDW) samples were collected from drums on 10/5/2022. This soil IDW was generated from previous monitoring well installation activities. All five samples were non-detect for EDB. Per the Simplot-Warden Work Plan, section 2.1.7 (Waste Handling Procedures), the soil IDW was used as backfill in the excavation pit.
- Six water investigative derived waste (IDW) samples were collected on 10/21/2022 from purged groundwater from a previous groundwater sampling event. The drums have been stored in the warehouse on site. Of the six water samples, five were non-detect for EDB and one sample, IDW-Water-Drum-3-10212022, resulted in an EDB detection of 0.0039 µg/L, which is below the CUL of

0.05 µg/L. The water IDW remains in the drums and is stored on site. The water IDW is likely to be disposed of offsite.

- Simplot currently estimates that SVE operations will extend through Treatment Batch 53, and that SVE soil treatment actions could be completed by November 10, 2022.
- Comments on the Groundwater Well Installation Plan (HDR 2021) were received from Ecology; Simplot/HDR are currently working on incorporating comments to a revised Plan.

Anticipated Activities for November 2022

- Simplot/HDR will continue 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 currently estimates that SVE operations will extend through Treatment Batch 53, and that SVE soil treatment actions could be completed by the November 10, 2022.
- Simplot/HDR to evaluate soil batches for use as on-site backfill in accordance with CAICMP and PTP.
- Following completion of soil treatment, Simplot/GrayMar to coordinate site grading, backfill and restoration of SVE treatment cell area, and removal of SVE equipment and associated appurtenance.
- Simplot/HDR will incorporate SVE remedial activities into the draft cleanup action report and submit to Ecology following completion of SVE operations.
- Simplot/HDR will incorporate Ecology comments on the Groundwater Well Installation Plan and submit to Ecology.

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

Respectfully,
HDR Engineering, Inc.



Tyler Allen
Senior Environmental Scientist

Attachments: Batch 37 Pretreatment EDB 9-2-2022 (J18519-1) Lab Report.pdf
 Batch 38 Pretreatment EDB 9-7-2022 (J18541-1) Lab Report.pdf
 Batch 39 Pretreatment EDB 9-9-2022 (J18592-1) Lab Report.pdf
 Batch 40 Pretreatment EDB 9-13-2022 (J18606-1) Lab Report.pdf
 Batch 41 Pretreatment EDB 9-15-2022 (J18636-1) Lab Report.pdf
 Batch 42 Pretreatment EDB 9-19-2022 (J18652-1) Lab Report.pdf
 Batch 43 Pretreatment EDB 9-21-2022 (J18671-1) Lab Report.pdf
 Batch 44 Pretreatment EDB 9-23-2022 (J18719-1) Lab Report.pdf
 Batch 55 Pretreatment EDB 9-27-2022 (J18744-1) Lab Report.pdf

Batch 46 Pretreatment EDB 9-29-2022 (J18784-1) Lab Report.pdf
Batch 47 Pretreatment EDB 9-21-2022 (J18671-1) Lab Report.pdf
Batch 48 Pretreatment EDB 9-23-2022 (J18719-1) Lab Report.pdf
Batch 59 Pretreatment EDB 9-27-2022 (J18744-1) Lab Report.pdf
Batch 50 Pretreatment EDB 9-29-2022 (J18784-1) Lab Report.pdf
IDW Soil Drums EDB 10-5-2022 (J18870-1) Lab Report Report.pdf
IDW Water EDB 10-21-2022 (J19044-1) Lab Report.pdf

CC: Molly Dimick, J.R. Simplot Company

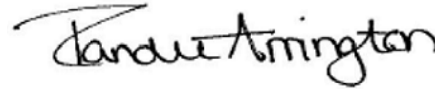
ANALYTICAL REPORT

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

Laboratory Job ID: 590-18815-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
10/4/2022 2:36:04 PM

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

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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: 590-18815-1

Job ID: 590-18815-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/3/2022 2:45 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

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: 590-18815-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18815-1	SVE-Soil-Oct3-37Pre1	Solid	10/03/22 12:57	10/03/22 14:45
590-18815-2	SVE-Soil-Oct3-37Pre2	Solid	10/03/22 12:59	10/03/22 14:45
590-18815-3	SVE-Soil-Oct3-37Pre3	Solid	10/03/22 13:01	10/03/22 14:45
590-18815-4	SVE-Soil-Oct3-37Pre4	Solid	10/03/22 13:05	10/03/22 14:45
590-18815-5	SVE-Soil-Oct3-37DUP	Solid	10/03/22 12:00	10/03/22 14:45
590-18815-6	Trip Blank	Solid	10/03/22 00:00	10/03/22 14:45

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18815-1

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: 590-18815-1

Client Sample ID: SVE-Soil-Oct3-37Pre1

Lab Sample ID: 590-18815-1

Date Collected: 10/03/22 12:57

Matrix: Solid

Date Received: 10/03/22 14:45

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.01	0.01	%			10/04/22 08:08	1
Percent Solids	90.4		0.01	0.01	%			10/04/22 08:08	1

Client Sample ID: SVE-Soil-Oct3-37Pre1

Lab Sample ID: 590-18815-1

Date Collected: 10/03/22 12:57

Matrix: Solid

Date Received: 10/03/22 14:45

Percent Solids: 90.4

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	☼	10/04/22 08:26	10/04/22 10:32	1

Client Sample ID: SVE-Soil-Oct3-37Pre2

Lab Sample ID: 590-18815-2

Date Collected: 10/03/22 12:59

Matrix: Solid

Date Received: 10/03/22 14:45

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.01	0.01	%			10/04/22 08:08	1
Percent Solids	88.8		0.01	0.01	%			10/04/22 08:08	1

Client Sample ID: SVE-Soil-Oct3-37Pre2

Lab Sample ID: 590-18815-2

Date Collected: 10/03/22 12:59

Matrix: Solid

Date Received: 10/03/22 14:45

Percent Solids: 88.8

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	☼	10/04/22 08:26	10/04/22 11:21	1

Client Sample ID: SVE-Soil-Oct3-37Pre3

Lab Sample ID: 590-18815-3

Date Collected: 10/03/22 13:01

Matrix: Solid

Date Received: 10/03/22 14:45

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.01	0.01	%			10/04/22 08:08	1
Percent Solids	88.5		0.01	0.01	%			10/04/22 08:08	1

Client Sample ID: SVE-Soil-Oct3-37Pre3

Lab Sample ID: 590-18815-3

Date Collected: 10/03/22 13:01

Matrix: Solid

Date Received: 10/03/22 14:45

Percent Solids: 88.5

Method: 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056	0.039	ug/Kg	☼	10/04/22 08:26	10/04/22 11:37	1

Client Sample ID: SVE-Soil-Oct3-37Pre4

Lab Sample ID: 590-18815-4

Date Collected: 10/03/22 13:05

Matrix: Solid

Date Received: 10/03/22 14:45

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.01	0.01	%			10/04/22 08:08	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18815-1

Client Sample ID: SVE-Soil-Oct3-37Pre4

Lab Sample ID: 590-18815-4

Date Collected: 10/03/22 13:05

Matrix: Solid

Date Received: 10/03/22 14:45

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.8		0.01	0.01	%			10/04/22 08:08	1

Client Sample ID: SVE-Soil-Oct3-37Pre4

Lab Sample ID: 590-18815-4

Date Collected: 10/03/22 13:05

Matrix: Solid

Date Received: 10/03/22 14:45

Percent Solids: 89.8

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	☼	10/04/22 08:26	10/04/22 11:53	1

Client Sample ID: SVE-Soil-Oct3-37DUP

Lab Sample ID: 590-18815-5

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 14:45

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.01	0.01	%			10/04/22 08:08	1
Percent Solids	88.6		0.01	0.01	%			10/04/22 08:08	1

Client Sample ID: SVE-Soil-Oct3-37DUP

Lab Sample ID: 590-18815-5

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 14:45

Percent Solids: 88.6

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	☼	10/04/22 08:26	10/04/22 12:09	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-18815-6

Date Collected: 10/03/22 00:00

Matrix: Solid

Date Received: 10/03/22 14:45

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		10/04/22 08:26	10/04/22 12:25	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18815-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38382/2-A
Matrix: Solid
Analysis Batch: 38384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/04/22 08:26	10/04/22 10:00	1

Lab Sample ID: LCS 590-38382/3-A
Matrix: Solid
Analysis Batch: 38384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.06		ug/Kg		106	60 - 140

Lab Sample ID: 590-18815-1 MS
Matrix: Solid
Analysis Batch: 38384

Client Sample ID: SVE-Soil-Oct3-37Pre1
Prep Type: Total/NA
Prep Batch: 38382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		1.09	0.808		ug/Kg	⊛	74	60 - 140

Lab Sample ID: 590-18815-1 MSD
Matrix: Solid
Analysis Batch: 38384

Client Sample ID: SVE-Soil-Oct3-37Pre1
Prep Type: Total/NA
Prep Batch: 38382

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.08	0.878		ug/Kg	⊛	81	60 - 140	8	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-18815-5 DU
Matrix: Solid
Analysis Batch: 38381

Client Sample ID: SVE-Soil-Oct3-37DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.4		10.9		%		4	20
Percent Solids	88.6		89.1		%		0.6	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18815-1

Client Sample ID: SVE-Soil-Oct3-37Pre1

Lab Sample ID: 590-18815-1

Date Collected: 10/03/22 12:57

Matrix: Solid

Date Received: 10/03/22 14:45

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			38381	10/04/22 08:08	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct3-37Pre1

Lab Sample ID: 590-18815-1

Date Collected: 10/03/22 12:57

Matrix: Solid

Date Received: 10/03/22 14:45

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.11 g	2 mL	38382	10/04/22 08:26	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38384	10/04/22 10:32	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct3-37Pre2

Lab Sample ID: 590-18815-2

Date Collected: 10/03/22 12:59

Matrix: Solid

Date Received: 10/03/22 14:45

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			38381	10/04/22 08:08	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct3-37Pre2

Lab Sample ID: 590-18815-2

Date Collected: 10/03/22 12:59

Matrix: Solid

Date Received: 10/03/22 14:45

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			10.21 g	2 mL	38382	10/04/22 08:26	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38384	10/04/22 11:21	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct3-37Pre3

Lab Sample ID: 590-18815-3

Date Collected: 10/03/22 13:01

Matrix: Solid

Date Received: 10/03/22 14:45

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			38381	10/04/22 08:08	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct3-37Pre3

Lab Sample ID: 590-18815-3

Date Collected: 10/03/22 13:01

Matrix: Solid

Date Received: 10/03/22 14:45

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.06 g	2 mL	38382	10/04/22 08:26	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38384	10/04/22 11:37	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct3-37Pre4

Lab Sample ID: 590-18815-4

Date Collected: 10/03/22 13:05

Matrix: Solid

Date Received: 10/03/22 14:45

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			38381	10/04/22 08:08	M1V	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18815-1

Client Sample ID: SVE-Soil-Oct3-37Pre4

Lab Sample ID: 590-18815-4

Date Collected: 10/03/22 13:05

Matrix: Solid

Date Received: 10/03/22 14:45

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			10.05 g	2 mL	38382	10/04/22 08:26	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38384	10/04/22 11:53	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct3-37DUP

Lab Sample ID: 590-18815-5

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 14:45

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			38381	10/04/22 08:08	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct3-37DUP

Lab Sample ID: 590-18815-5

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 14:45

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.26 g	2 mL	38382	10/04/22 08:26	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38384	10/04/22 12:09	M1V	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-18815-6

Date Collected: 10/03/22 00:00

Matrix: Solid

Date Received: 10/03/22 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.36 g	2 mL	38382	10/04/22 08:26	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38384	10/04/22 12:25	M1V	EET SPK

Laboratory References:

EET 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: 590-18815-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Method Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18815-1

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

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



Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18815-1

Login Number: 18815

List Source: Eurofins Spokane

List Number: 1

Creator: Fettig, Riley

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



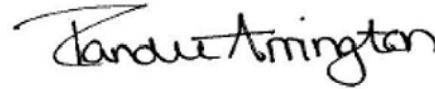
ANALYTICAL REPORT

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

Laboratory Job ID: 590-18869-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



*Authorized for release by:
10/6/2022 5:16:29 PM*

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

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results through



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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: 590-18869-1

Job ID: 590-18869-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/5/2022 2:00 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

Method 8011: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 590-38413 and analytical batch 590-38415 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: 590-18869-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18869-1	SVE-Soil-Oct5-38Pre1	Solid	10/05/22 11:49	10/05/22 14:00
590-18869-2	SVE-Soil-Oct5-38Pre2	Solid	10/05/22 11:51	10/05/22 14:00
590-18869-3	SVE-Soil-Oct5-38Pre3	Solid	10/05/22 11:53	10/05/22 14:00
590-18869-4	SVE-Soil-Oct5-38Pre4	Solid	10/05/22 11:55	10/05/22 14:00
590-18869-5	Trip Blank	Solid	10/05/22 11:00	10/05/22 14:00

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18869-1

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: 590-18869-1

Client Sample ID: SVE-Soil-Oct5-38Pre1

Lab Sample ID: 590-18869-1

Date Collected: 10/05/22 11:49

Matrix: Solid

Date Received: 10/05/22 14:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.5		0.01	0.01	%			10/06/22 07:52	1
Percent Solids (EPA Moisture)	88.5		0.01	0.01	%			10/06/22 07:52	1

Client Sample ID: SVE-Soil-Oct5-38Pre1

Lab Sample ID: 590-18869-1

Date Collected: 10/05/22 11:49

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 88.5

Method: EPA 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	☼	10/06/22 07:33	10/06/22 09:39	1

Client Sample ID: SVE-Soil-Oct5-38Pre2

Lab Sample ID: 590-18869-2

Date Collected: 10/05/22 11:51

Matrix: Solid

Date Received: 10/05/22 14:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.4		0.01	0.01	%			10/06/22 07:52	1
Percent Solids (EPA Moisture)	89.6		0.01	0.01	%			10/06/22 07:52	1

Client Sample ID: SVE-Soil-Oct5-38Pre2

Lab Sample ID: 590-18869-2

Date Collected: 10/05/22 11:51

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 89.6

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.037	ug/Kg	☼	10/06/22 07:33	10/06/22 10:26	1

Client Sample ID: SVE-Soil-Oct5-38Pre3

Lab Sample ID: 590-18869-3

Date Collected: 10/05/22 11:53

Matrix: Solid

Date Received: 10/05/22 14:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.6		0.01	0.01	%			10/06/22 07:52	1
Percent Solids (EPA Moisture)	90.4		0.01	0.01	%			10/06/22 07:52	1

Client Sample ID: SVE-Soil-Oct5-38Pre3

Lab Sample ID: 590-18869-3

Date Collected: 10/05/22 11:53

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 90.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	10/06/22 07:33	10/06/22 10:42	1

Client Sample ID: SVE-Soil-Oct5-38Pre4

Lab Sample ID: 590-18869-4

Date Collected: 10/05/22 11:55

Matrix: Solid

Date Received: 10/05/22 14:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.0		0.01	0.01	%			10/06/22 07:52	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18869-1

Client Sample ID: SVE-Soil-Oct5-38Pre4
Date Collected: 10/05/22 11:55
Date Received: 10/05/22 14:00

Lab Sample ID: 590-18869-4
Matrix: Solid

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.0		0.01	0.01	%			10/06/22 07:52	1

Client Sample ID: SVE-Soil-Oct5-38Pre4
Date Collected: 10/05/22 11:55
Date Received: 10/05/22 14:00

Lab Sample ID: 590-18869-4
Matrix: Solid
Percent Solids: 87.0

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	0.065		0.057	0.040	ug/Kg	✱	10/06/22 07:33	10/06/22 10:58	1

Client Sample ID: Trip Blank
Date Collected: 10/05/22 11:00
Date Received: 10/05/22 14:00

Lab Sample ID: 590-18869-5
Matrix: Solid

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.048	0.034	ug/Kg		10/06/22 07:33	10/06/22 11:14	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18869-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38413/2-A
Matrix: Solid
Analysis Batch: 38415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38413

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/06/22 07:33	10/06/22 09:07	1

Lab Sample ID: LCS 590-38413/3-A
Matrix: Solid
Analysis Batch: 38415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.06		ug/Kg		106	60 - 140

Lab Sample ID: 590-18869-1 MS
Matrix: Solid
Analysis Batch: 38415

Client Sample ID: SVE-Soil-Oct5-38Pre1
Prep Type: Total/NA
Prep Batch: 38413

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND	F2	1.10	0.725		ug/Kg	⊛	66	60 - 140

Lab Sample ID: 590-18869-1 MSD
Matrix: Solid
Analysis Batch: 38415

Client Sample ID: SVE-Soil-Oct5-38Pre1
Prep Type: Total/NA
Prep Batch: 38413

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	1.11	0.975	F2	ug/Kg	⊛	87	60 - 140	29	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-18869-1 DU
Matrix: Solid
Analysis Batch: 38414

Client Sample ID: SVE-Soil-Oct5-38Pre1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.5		10.1		%		14	20
Percent Solids	88.5		89.9		%		2	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18869-1

Client Sample ID: SVE-Soil-Oct5-38Pre1
Date Collected: 10/05/22 11:49
Date Received: 10/05/22 14:00

Lab Sample ID: 590-18869-1
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			38414	10/06/22 07:52	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct5-38Pre1
Date Collected: 10/05/22 11:49
Date Received: 10/05/22 14:00

Lab Sample ID: 590-18869-1
Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.31 g	2 mL	38413	10/06/22 07:33	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38415	10/06/22 09:39	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct5-38Pre2
Date Collected: 10/05/22 11:51
Date Received: 10/05/22 14:00

Lab Sample ID: 590-18869-2
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			38414	10/06/22 07:52	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct5-38Pre2
Date Collected: 10/05/22 11:51
Date Received: 10/05/22 14:00

Lab Sample ID: 590-18869-2
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			10.64 g	2 mL	38413	10/06/22 07:33	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38415	10/06/22 10:26	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct5-38Pre3
Date Collected: 10/05/22 11:53
Date Received: 10/05/22 14:00

Lab Sample ID: 590-18869-3
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			38414	10/06/22 07:52	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct5-38Pre3
Date Collected: 10/05/22 11:53
Date Received: 10/05/22 14:00

Lab Sample ID: 590-18869-3
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.44 g	2 mL	38413	10/06/22 07:33	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38415	10/06/22 10:42	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct5-38Pre4
Date Collected: 10/05/22 11:55
Date Received: 10/05/22 14:00

Lab Sample ID: 590-18869-4
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			38414	10/06/22 07:52	M1V	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18869-1

Client Sample ID: SVE-Soil-Oct5-38Pre4

Lab Sample ID: 590-18869-4

Date Collected: 10/05/22 11:55

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.15 g	2 mL	38413	10/06/22 07:33	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38415	10/06/22 10:58	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-18869-5

Date Collected: 10/05/22 11:00

Matrix: Solid

Date Received: 10/05/22 14:00

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	38413	10/06/22 07:33	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38415	10/06/22 11:14	NMI	EET SPK

Laboratory References:

EET 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: 590-18869-1

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: 590-18869-1

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

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



Chain of Custody Record

Client Information		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:		Analysis Requested						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:		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)																																																									
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		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8011 EDB</th> <th colspan="2">Special Instructions/Note</th> </tr> </thead> <tbody> <tr> <td>SVE-Soil-Oct 5 -38Pre1</td> <td>10/5/2022</td> <td>1149</td> <td>G</td> <td>S</td> <td>N</td> <td>N</td> <td>X</td> <td colspan="2"></td> </tr> <tr> <td>SVE-Soil-Oct 5 -38Pre2</td> <td>10/5/2022</td> <td>1151</td> <td>G</td> <td>S</td> <td>N</td> <td>N</td> <td>X</td> <td colspan="2"></td> </tr> <tr> <td>SVE-Soil-Oct 5 -38Pre3</td> <td>10/5/2022</td> <td>1153</td> <td>G</td> <td>S</td> <td>N</td> <td>N</td> <td>X</td> <td colspan="2"></td> </tr> <tr> <td>SVE-Soil-Oct 5 -38Pre4</td> <td>10/5/2022</td> <td>1155</td> <td>G</td> <td>S</td> <td>N</td> <td>N</td> <td>X</td> <td colspan="2"></td> </tr> <tr> <td>Trip Blank</td> <td></td> <td></td> <td></td> <td>S</td> <td>N</td> <td>N</td> <td>X</td> <td colspan="2"></td> </tr> </tbody> </table>						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	Special Instructions/Note		SVE-Soil-Oct 5 -38Pre1	10/5/2022	1149	G	S	N	N	X			SVE-Soil-Oct 5 -38Pre2	10/5/2022	1151	G	S	N	N	X			SVE-Soil-Oct 5 -38Pre3	10/5/2022	1153	G	S	N	N	X			SVE-Soil-Oct 5 -38Pre4	10/5/2022	1155	G	S	N	N	X			Trip Blank				S	N	N	X		
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	Special Instructions/Note																																																							
SVE-Soil-Oct 5 -38Pre1	10/5/2022	1149	G	S	N	N	X																																																														
SVE-Soil-Oct 5 -38Pre2	10/5/2022	1151	G	S	N	N	X																																																														
SVE-Soil-Oct 5 -38Pre3	10/5/2022	1153	G	S	N	N	X																																																														
SVE-Soil-Oct 5 -38Pre4	10/5/2022	1155	G	S	N	N	X																																																														
Trip Blank				S	N	N	X																																																														
Site: Warden WA		SSOW#:																																																																			
Possible Hazard Identification <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		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <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: 10/5/22 14:00		Company:		Received by: <i>[Signature]</i>		Date/Time: 10/5/22 1400		Company: STAspokane																																																											
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.		Cooler Temperature(s) °C and Other Remarks:				23°C 2.8°C Proc 6/6/2022																																																													

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18869-1

Login Number: 18869

List Source: Eurofins Spokane

List Number: 1

Creator: Arrington, Randee E

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



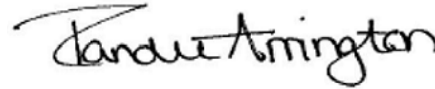
ANALYTICAL REPORT

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

Laboratory Job ID: 590-18909-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
10/10/2022 4:24:29 PM

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

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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: 590-18909-1

Job ID: 590-18909-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/7/2022 2:45 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 3.4° C.

GC Semi VOA

Method 8011: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 590-38471 and analytical batch 590-38472 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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: 590-18909-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18909-1	SVE-Soil-Oct7-39Pre1	Solid	10/07/22 12:51	10/07/22 14:45
590-18909-2	SVE-Soil-Oct7-39Pre2	Solid	10/07/22 12:53	10/07/22 14:45
590-18909-3	SVE-Soil-Oct7-39Pre3	Solid	10/07/22 12:55	10/07/22 14:45
590-18909-4	SVE-Soil-Oct7-39Pre4	Solid	10/07/22 12:57	10/07/22 14:45
590-18909-5	SVE-Soil-Oct7-39DUP	Solid	10/07/22 12:00	10/07/22 14:45
590-18909-6	Trip Blank	Solid	10/07/22 00:00	10/07/22 14:45

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18909-1

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: 590-18909-1

Client Sample ID: SVE-Soil-Oct7-39Pre1

Lab Sample ID: 590-18909-1

Date Collected: 10/07/22 12:51

Matrix: Solid

Date Received: 10/07/22 14:45

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.8		0.01	0.01	%			10/10/22 09:14	1
Percent Solids (EPA Moisture)	89.2		0.01	0.01	%			10/10/22 09:14	1

Client Sample ID: SVE-Soil-Oct7-39Pre1

Lab Sample ID: 590-18909-1

Date Collected: 10/07/22 12:51

Matrix: Solid

Date Received: 10/07/22 14:45

Percent Solids: 89.2

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	10/10/22 08:02	10/10/22 12:54	1

Client Sample ID: SVE-Soil-Oct7-39Pre2

Lab Sample ID: 590-18909-2

Date Collected: 10/07/22 12:53

Matrix: Solid

Date Received: 10/07/22 14:45

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.3		0.01	0.01	%			10/10/22 09:14	1
Percent Solids (EPA Moisture)	88.7		0.01	0.01	%			10/10/22 09:14	1

Client Sample ID: SVE-Soil-Oct7-39Pre2

Lab Sample ID: 590-18909-2

Date Collected: 10/07/22 12:53

Matrix: Solid

Date Received: 10/07/22 14:45

Percent Solids: 88.7

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	10/10/22 08:02	10/10/22 13:10	1

Client Sample ID: SVE-Soil-Oct7-39Pre3

Lab Sample ID: 590-18909-3

Date Collected: 10/07/22 12:55

Matrix: Solid

Date Received: 10/07/22 14:45

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.0		0.01	0.01	%			10/10/22 09:14	1
Percent Solids (EPA Moisture)	90.0		0.01	0.01	%			10/10/22 09:14	1

Client Sample ID: SVE-Soil-Oct7-39Pre3

Lab Sample ID: 590-18909-3

Date Collected: 10/07/22 12:55

Matrix: Solid

Date Received: 10/07/22 14:45

Percent Solids: 90.0

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	10/10/22 08:02	10/10/22 13:26	1

Client Sample ID: SVE-Soil-Oct7-39Pre4

Lab Sample ID: 590-18909-4

Date Collected: 10/07/22 12:57

Matrix: Solid

Date Received: 10/07/22 14:45

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.1		0.01	0.01	%			10/10/22 09:14	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18909-1

Client Sample ID: SVE-Soil-Oct7-39Pre4

Lab Sample ID: 590-18909-4

Date Collected: 10/07/22 12:57

Matrix: Solid

Date Received: 10/07/22 14:45

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	88.9		0.01	0.01	%			10/10/22 09:14	1

Client Sample ID: SVE-Soil-Oct7-39Pre4

Lab Sample ID: 590-18909-4

Date Collected: 10/07/22 12:57

Matrix: Solid

Date Received: 10/07/22 14:45

Percent Solids: 88.9

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056	0.039	ug/Kg	☼	10/10/22 08:02	10/10/22 13:42	1

Client Sample ID: SVE-Soil-Oct7-39DUP

Lab Sample ID: 590-18909-5

Date Collected: 10/07/22 12:00

Matrix: Solid

Date Received: 10/07/22 14:45

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.6		0.01	0.01	%			10/10/22 09:14	1
Percent Solids (EPA Moisture)	89.4		0.01	0.01	%			10/10/22 09:14	1

Client Sample ID: SVE-Soil-Oct7-39DUP

Lab Sample ID: 590-18909-5

Date Collected: 10/07/22 12:00

Matrix: Solid

Date Received: 10/07/22 14:45

Percent Solids: 89.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	10/10/22 08:02	10/10/22 13:58	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-18909-6

Date Collected: 10/07/22 00:00

Matrix: Solid

Date Received: 10/07/22 14:45

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.048	0.033	ug/Kg		10/10/22 08:02	10/10/22 14:14	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18909-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38471/2-A
Matrix: Solid
Analysis Batch: 38472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/10/22 08:02	10/10/22 09:43	1

Lab Sample ID: LCS 590-38471/3-A
Matrix: Solid
Analysis Batch: 38472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	0.896		ug/Kg		90	60 - 140

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18909-1

Client Sample ID: SVE-Soil-Oct7-39Pre1

Lab Sample ID: 590-18909-1

Date Collected: 10/07/22 12:51

Matrix: Solid

Date Received: 10/07/22 14:45

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			38475	10/10/22 09:14	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct7-39Pre1

Lab Sample ID: 590-18909-1

Date Collected: 10/07/22 12:51

Matrix: Solid

Date Received: 10/07/22 14:45

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			10.31 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 12:54	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct7-39Pre2

Lab Sample ID: 590-18909-2

Date Collected: 10/07/22 12:53

Matrix: Solid

Date Received: 10/07/22 14:45

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			38475	10/10/22 09:14	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct7-39Pre2

Lab Sample ID: 590-18909-2

Date Collected: 10/07/22 12:53

Matrix: Solid

Date Received: 10/07/22 14:45

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.49 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 13:10	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct7-39Pre3

Lab Sample ID: 590-18909-3

Date Collected: 10/07/22 12:55

Matrix: Solid

Date Received: 10/07/22 14:45

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			38475	10/10/22 09:14	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct7-39Pre3

Lab Sample ID: 590-18909-3

Date Collected: 10/07/22 12:55

Matrix: Solid

Date Received: 10/07/22 14:45

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			10.44 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 13:26	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct7-39Pre4

Lab Sample ID: 590-18909-4

Date Collected: 10/07/22 12:57

Matrix: Solid

Date Received: 10/07/22 14:45

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			38475	10/10/22 09:14	NMI	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18909-1

Client Sample ID: SVE-Soil-Oct7-39Pre4

Lab Sample ID: 590-18909-4

Date Collected: 10/07/22 12:57

Matrix: Solid

Date Received: 10/07/22 14:45

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.03 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 13:42	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct7-39DUP

Lab Sample ID: 590-18909-5

Date Collected: 10/07/22 12:00

Matrix: Solid

Date Received: 10/07/22 14:45

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			38475	10/10/22 09:14	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct7-39DUP

Lab Sample ID: 590-18909-5

Date Collected: 10/07/22 12:00

Matrix: Solid

Date Received: 10/07/22 14:45

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			10.63 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 13:58	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-18909-6

Date Collected: 10/07/22 00:00

Matrix: Solid

Date Received: 10/07/22 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.50 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 14:14	NMI	EET SPK

Laboratory References:

EET 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: 590-18909-1

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: 590-18909-1

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

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



Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18909-1

Login Number: 18909

List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

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



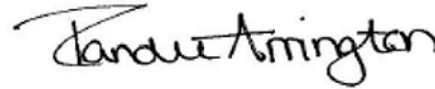
ANALYTICAL REPORT

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

Laboratory Job ID: 590-18935-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
10/12/2022 3:42:47 PM

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

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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: 590-18935-1

Job ID: 590-18935-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/11/2022 2:50 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 3.1° 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: 590-18935-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18935-1	SVE-Soil-Oct9-40Pre1	Solid	10/09/22 13:40	10/11/22 14:50
590-18935-2	SVE-Soil-Oct9-40Pre4	Solid	10/09/22 13:52	10/11/22 14:50
590-18935-3	SVE-Soil-Oct11-40Post48-1	Solid	10/11/22 12:16	10/11/22 14:50
590-18935-4	SVE-Soil-Oct11-40Post48-2	Solid	10/11/22 12:18	10/11/22 14:50
590-18935-5	Trip Blank	Solid	10/11/22 00:00	10/11/22 14:50

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18935-1

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: 590-18935-1

Client Sample ID: SVE-Soil-Oct9-40Pre1

Lab Sample ID: 590-18935-1

Date Collected: 10/09/22 13:40

Matrix: Solid

Date Received: 10/11/22 14:50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.2		0.01	0.01	%			10/12/22 09:35	1
Percent Solids (EPA Moisture)	87.8		0.01	0.01	%			10/12/22 09:35	1

Client Sample ID: SVE-Soil-Oct9-40Pre1

Lab Sample ID: 590-18935-1

Date Collected: 10/09/22 13:40

Matrix: Solid

Date Received: 10/11/22 14:50

Percent Solids: 87.8

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056	0.039	ug/Kg	☼	10/12/22 08:26	10/12/22 10:26	1

Client Sample ID: SVE-Soil-Oct9-40Pre4

Lab Sample ID: 590-18935-2

Date Collected: 10/09/22 13:52

Matrix: Solid

Date Received: 10/11/22 14:50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.9		0.01	0.01	%			10/12/22 09:35	1
Percent Solids (EPA Moisture)	89.1		0.01	0.01	%			10/12/22 09:35	1

Client Sample ID: SVE-Soil-Oct9-40Pre4

Lab Sample ID: 590-18935-2

Date Collected: 10/09/22 13:52

Matrix: Solid

Date Received: 10/11/22 14:50

Percent Solids: 89.1

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	10/12/22 08:26	10/12/22 11:14	1

Client Sample ID: SVE-Soil-Oct11-40Post48-1

Lab Sample ID: 590-18935-3

Date Collected: 10/11/22 12:16

Matrix: Solid

Date Received: 10/11/22 14:50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.5		0.01	0.01	%			10/12/22 09:35	1
Percent Solids (EPA Moisture)	88.5		0.01	0.01	%			10/12/22 09:35	1

Client Sample ID: SVE-Soil-Oct11-40Post48-1

Lab Sample ID: 590-18935-3

Date Collected: 10/11/22 12:16

Matrix: Solid

Date Received: 10/11/22 14:50

Percent Solids: 88.5

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	☼	10/12/22 08:26	10/12/22 11:30	1

Client Sample ID: SVE-Soil-Oct11-40Post48-2

Lab Sample ID: 590-18935-4

Date Collected: 10/11/22 12:18

Matrix: Solid

Date Received: 10/11/22 14:50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.8		0.01	0.01	%			10/12/22 09:35	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18935-1

Client Sample ID: SVE-Soil-Oct11-40Post48-2
Date Collected: 10/11/22 12:18
Date Received: 10/11/22 14:50

Lab Sample ID: 590-18935-4
Matrix: Solid

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	88.2		0.01	0.01	%			10/12/22 09:35	1

Client Sample ID: SVE-Soil-Oct11-40Post48-2
Date Collected: 10/11/22 12:18
Date Received: 10/11/22 14:50

Lab Sample ID: 590-18935-4
Matrix: Solid
Percent Solids: 88.2

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	✱	10/12/22 08:26	10/12/22 11:46	1

Client Sample ID: Trip Blank
Date Collected: 10/11/22 00:00
Date Received: 10/11/22 14:50

Lab Sample ID: 590-18935-5
Matrix: Solid

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.049	0.035	ug/Kg		10/12/22 08:26	10/12/22 12:02	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18935-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38529/2-A
Matrix: Solid
Analysis Batch: 38530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/12/22 08:26	10/12/22 09:53	1

Lab Sample ID: LCS 590-38529/3-A
Matrix: Solid
Analysis Batch: 38530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.08		ug/Kg		108	60 - 140

Lab Sample ID: 590-18935-1 MS
Matrix: Solid
Analysis Batch: 38530

Client Sample ID: SVE-Soil-Oct9-40Pre1
Prep Type: Total/NA
Prep Batch: 38529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		1.13	0.853		ug/Kg	⊛	75	60 - 140

Lab Sample ID: 590-18935-1 MSD
Matrix: Solid
Analysis Batch: 38530

Client Sample ID: SVE-Soil-Oct9-40Pre1
Prep Type: Total/NA
Prep Batch: 38529

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.13	0.840		ug/Kg	⊛	74	60 - 140	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-18935-1 DU
Matrix: Solid
Analysis Batch: 38532

Client Sample ID: SVE-Soil-Oct9-40Pre1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12.2		12.1		%		0.1	20
Percent Solids	87.8		87.9		%		0	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18935-1

Client Sample ID: SVE-Soil-Oct9-40Pre1
Date Collected: 10/09/22 13:40
Date Received: 10/11/22 14:50

Lab Sample ID: 590-18935-1
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			38532	10/12/22 09:35	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct9-40Pre1
Date Collected: 10/09/22 13:40
Date Received: 10/11/22 14:50

Lab Sample ID: 590-18935-1
Matrix: Solid
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.14 g	2 mL	38529	10/12/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38530	10/12/22 10:26	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct9-40Pre4
Date Collected: 10/09/22 13:52
Date Received: 10/11/22 14:50

Lab Sample ID: 590-18935-2
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			38532	10/12/22 09:35	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct9-40Pre4
Date Collected: 10/09/22 13:52
Date Received: 10/11/22 14:50

Lab Sample ID: 590-18935-2
Matrix: Solid
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.21 g	2 mL	38529	10/12/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38530	10/12/22 11:14	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct11-40Post48-1
Date Collected: 10/11/22 12:16
Date Received: 10/11/22 14:50

Lab Sample ID: 590-18935-3
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			38532	10/12/22 09:35	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct11-40Post48-1
Date Collected: 10/11/22 12:16
Date Received: 10/11/22 14:50

Lab Sample ID: 590-18935-3
Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.23 g	2 mL	38529	10/12/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38530	10/12/22 11:30	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct11-40Post48-2
Date Collected: 10/11/22 12:18
Date Received: 10/11/22 14:50

Lab Sample ID: 590-18935-4
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			38532	10/12/22 09:35	NMI	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18935-1

Client Sample ID: SVE-Soil-Oct11-40Post48-2

Lab Sample ID: 590-18935-4

Date Collected: 10/11/22 12:18

Matrix: Solid

Date Received: 10/11/22 14:50

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.28 g	2 mL	38529	10/12/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38530	10/12/22 11:46	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-18935-5

Date Collected: 10/11/22 00:00

Matrix: Solid

Date Received: 10/11/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.13 g	2 mL	38529	10/12/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38530	10/12/22 12:02	NMI	EET SPK

Laboratory References:

EET 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: 590-18935-1

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: 590-18935-1

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

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



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


Chain of Custody Record

eurofins
 Environment Testing
 America

Client Information		Sampler: Jered Newcomb, JAN / <i>Janke Allen</i>		Lab PM: Arrington Randee E		Carrier Tracking No(s):		COC No: 590-7430-2162.1									
Client Contact: Jered Newcomb		Phone: 509-899-4371		E-Mail: Randee.Arrington@et.eurofins.com		State of Origin: WA		Page: Page 1 of 1									
Company: HDR Inc		PWSID:		Analysis Requested						Job #:							
Address: 835 N Post St. Ste. 101		Due Date Requested:		<table border="1"> <tr><td>Field Filtered Sample (Yes or No)</td><td></td></tr> <tr><td>Perform MS/MSD (Yes or No)</td><td></td></tr> <tr><td>8011</td><td>EDB</td></tr> </table>						Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8011	EDB	Post-servation Codes	
Field Filtered Sample (Yes or No)																	
Perform MS/MSD (Yes or No)																	
8011	EDB																
City: Spokane		TAT Requested (days): 24 hour								A HCL		M Hexane					
State, Zip: WA, 99202		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		B NaOH		N None											
Phone: 509-899-4371		PO #: Purchase Order Requested		C Zn Acetate		O AsNaO2											
Email: jered.newcomb@hdrinc.com		WO #:		D Nitric Acid		P Na2O4S											
Project Name: Simplot Warden		Project #: 59002373		E NaHSO4		Q Na2SO3											
Site: Warden WA		SSOW#:		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:													
				Comments													
				*Post treatment samples after 48 hours. Pre-T samples (2) unusable.													
				Special Instructions/Note:													

 Total Number of containers: | |

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	Special Instructions/Note:
SVE-Soil-June-3Post1	6/ /2022		G	S	N	N	X		
SVE-Soil-June-3Post2	6/ /2022		G	S	N	N	X		
SVE-Soil-June-3Post3	6/ /2022		G	S	N	N	X		
SVE-Soil-June-3Post4	6/ /2022		G	S	N	N	X		
SVE-Soil-June-3DUP	6/ /2022		G	S	N	N	X		
Trip Blank				S	N	N	X		
SVE-Soil-Oct9-40Pre1	10/9/22	1340	G	S	N	N	X		
SVE-Soil-Oct9-40Pre2	10/11/22	1345							Inufficient sample. Disposed
SVE-Soil-Oct9-40Pre3	10/11/22	1349							Inufficient sample. Disposed
SVE-Soil-Oct9-40Pre4		1352					X		
SVE-Soil-Oct11-40Pre42-1	10/11/22	1316	G	S	N	N	X		
SVE-Soil-Oct11-40Pre48-2	10/11/22	1218	G	S	N	N	X		



590-18935 Chain of Custody

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested: I, II, III, IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>Janke Allen</i>	Date/Time: 10/11/22 11:51	Company: Graymar	Received by: <i>[Signature]</i> Date/Time: 10/11/22 11:51 Company: HDR
Relinquished by: <i>Jered Newcomb</i>	Date/Time: 10/11/22 14:50	Company: HDR	Received by: <i>[Signature]</i> Date/Time: 10/11/22 14:56 Company: EECORP
Relinquished by:	Date/Time:	Company: Page 13 of 14	Received by: Date/Time: Company: 10/12/2022

Custody Seals Intact: Custody Seal No.

Cooler Temperature(s) °C and Other Remarks:

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18935-1

Login Number: 18935

List Number: 1

Creator: Fettig, Riley

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	

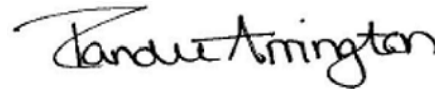
ANALYTICAL REPORT

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

Laboratory Job ID: 590-18936-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
10/12/2022 3:43:51 PM

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

LINKS

Review your project
results through



Have a Question?



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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: 590-18936-1

Job ID: 590-18936-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/11/2022 2:50 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 3.1° 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.



Sample Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18936-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18936-1	SVE-Soil-Oct11-41-Pre1	Solid	10/11/22 12:46	10/11/22 14:50
590-18936-2	SVE-Soil-Oct11-41-Pre2	Solid	10/11/22 12:48	10/11/22 14:50
590-18936-3	SVE-Soil-Oct11-41-Pre3	Solid	10/11/22 12:50	10/11/22 14:50
590-18936-4	SVE-Soil-Oct11-41-Pre4	Solid	10/11/22 12:52	10/11/22 14:50
590-18936-5	Trip Blank	Solid	10/11/22 00:00	10/11/22 14:50

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18936-1

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: 590-18936-1

Client Sample ID: SVE-Soil-Oct11-41-Pre1

Lab Sample ID: 590-18936-1

Date Collected: 10/11/22 12:46

Matrix: Solid

Date Received: 10/11/22 14:50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.7		0.01	0.01	%			10/12/22 09:35	1
Percent Solids (EPA Moisture)	89.3		0.01	0.01	%			10/12/22 09:35	1

Client Sample ID: SVE-Soil-Oct11-41-Pre1

Lab Sample ID: 590-18936-1

Date Collected: 10/11/22 12:46

Matrix: Solid

Date Received: 10/11/22 14:50

Percent Solids: 89.3

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	☼	10/12/22 08:26	10/12/22 12:17	1

Client Sample ID: SVE-Soil-Oct11-41-Pre2

Lab Sample ID: 590-18936-2

Date Collected: 10/11/22 12:48

Matrix: Solid

Date Received: 10/11/22 14:50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.8		0.01	0.01	%			10/12/22 09:35	1
Percent Solids (EPA Moisture)	90.2		0.01	0.01	%			10/12/22 09:35	1

Client Sample ID: SVE-Soil-Oct11-41-Pre2

Lab Sample ID: 590-18936-2

Date Collected: 10/11/22 12:48

Matrix: Solid

Date Received: 10/11/22 14:50

Percent Solids: 90.2

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.037	ug/Kg	☼	10/12/22 08:26	10/12/22 12:49	1

Client Sample ID: SVE-Soil-Oct11-41-Pre3

Lab Sample ID: 590-18936-3

Date Collected: 10/11/22 12:50

Matrix: Solid

Date Received: 10/11/22 14:50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.6		0.01	0.01	%			10/12/22 09:35	1
Percent Solids (EPA Moisture)	90.4		0.01	0.01	%			10/12/22 09:35	1

Client Sample ID: SVE-Soil-Oct11-41-Pre3

Lab Sample ID: 590-18936-3

Date Collected: 10/11/22 12:50

Matrix: Solid

Date Received: 10/11/22 14:50

Percent Solids: 90.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	10/12/22 08:26	10/12/22 13:05	1

Client Sample ID: SVE-Soil-Oct11-41-Pre4

Lab Sample ID: 590-18936-4

Date Collected: 10/11/22 12:52

Matrix: Solid

Date Received: 10/11/22 14:50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.8		0.01	0.01	%			10/12/22 09:35	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18936-1

Client Sample ID: SVE-Soil-Oct11-41-Pre4

Lab Sample ID: 590-18936-4

Date Collected: 10/11/22 12:52

Matrix: Solid

Date Received: 10/11/22 14:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.2		0.01	0.01	%			10/12/22 09:35	1

Client Sample ID: SVE-Soil-Oct11-41-Pre4

Lab Sample ID: 590-18936-4

Date Collected: 10/11/22 12:52

Matrix: Solid

Date Received: 10/11/22 14:50

Percent Solids: 87.2

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056	0.039	ug/Kg	☼	10/12/22 08:26	10/12/22 13:21	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-18936-5

Date Collected: 10/11/22 00:00

Matrix: Solid

Date Received: 10/11/22 14:50

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		10/12/22 08:26	10/12/22 13:37	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18936-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38529/2-A
Matrix: Solid
Analysis Batch: 38530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/12/22 08:26	10/12/22 09:53	1

Lab Sample ID: LCS 590-38529/3-A
Matrix: Solid
Analysis Batch: 38530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.08		ug/Kg		108	60 - 140

Method: Moisture - Percent Moisture

Lab Sample ID: 590-18936-1 DU
Matrix: Solid
Analysis Batch: 38532

Client Sample ID: SVE-Soil-Oct11-41-Pre1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.7		10.7		%		0.6	20
Percent Solids	89.3		89.3		%		0.08	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18936-1

Client Sample ID: SVE-Soil-Oct11-41-Pre1

Lab Sample ID: 590-18936-1

Date Collected: 10/11/22 12:46

Matrix: Solid

Date Received: 10/11/22 14:50

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			38532	10/12/22 09:35	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct11-41-Pre1

Lab Sample ID: 590-18936-1

Date Collected: 10/11/22 12:46

Matrix: Solid

Date Received: 10/11/22 14:50

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.11 g	2 mL	38529	10/12/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38530	10/12/22 12:17	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct11-41-Pre2

Lab Sample ID: 590-18936-2

Date Collected: 10/11/22 12:48

Matrix: Solid

Date Received: 10/11/22 14:50

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			38532	10/12/22 09:35	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct11-41-Pre2

Lab Sample ID: 590-18936-2

Date Collected: 10/11/22 12:48

Matrix: Solid

Date Received: 10/11/22 14:50

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			10.36 g	2 mL	38529	10/12/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38530	10/12/22 12:49	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct11-41-Pre3

Lab Sample ID: 590-18936-3

Date Collected: 10/11/22 12:50

Matrix: Solid

Date Received: 10/11/22 14:50

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			38532	10/12/22 09:35	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct11-41-Pre3

Lab Sample ID: 590-18936-3

Date Collected: 10/11/22 12:50

Matrix: Solid

Date Received: 10/11/22 14:50

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.09 g	2 mL	38529	10/12/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38530	10/12/22 13:05	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct11-41-Pre4

Lab Sample ID: 590-18936-4

Date Collected: 10/11/22 12:52

Matrix: Solid

Date Received: 10/11/22 14:50

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			38532	10/12/22 09:35	NMI	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18936-1

Client Sample ID: SVE-Soil-Oct11-41-Pre4

Lab Sample ID: 590-18936-4

Date Collected: 10/11/22 12:52

Matrix: Solid

Date Received: 10/11/22 14:50

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.33 g	2 mL	38529	10/12/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38530	10/12/22 13:21	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-18936-5

Date Collected: 10/11/22 00:00

Matrix: Solid

Date Received: 10/11/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.62 g	2 mL	38529	10/12/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38530	10/12/22 13:37	NMI	EET SPK

Laboratory References:

EET 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: 590-18936-1

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: 590-18936-1

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

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



Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18936-1

Login Number: 18936

List Number: 1

Creator: Fettig, Riley

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	

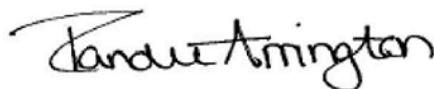
ANALYTICAL REPORT

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

Laboratory Job ID: 590-18959-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
10/14/2022 4:59:22 PM

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

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results through



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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: 590-18959-1

Job ID: 590-18959-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/13/2022 3:10 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 7.1° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: SVE-Soil-Oct13-42Pre1 (590-18959-1), SVE-Soil-Oct13-42Pre2 (590-18959-2), SVE-Soil-Oct13-42Pre3 (590-18959-3), SVE-Soil-Oct13-42Pre4 (590-18959-4), SVE-Soil-Oct13-42DUP (590-18959-5) and Trip Blank (590-18959-6). The samples are considered acceptable since they were collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC Semi VOA

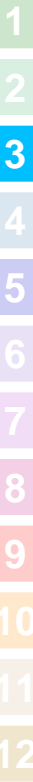
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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.



Sample Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18959-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18959-1	SVE-Soil-Oct13-42Pre1	Solid	10/13/22 13:10	10/13/22 15:10
590-18959-2	SVE-Soil-Oct13-42Pre2	Solid	10/13/22 13:15	10/13/22 15:10
590-18959-3	SVE-Soil-Oct13-42Pre3	Solid	10/13/22 13:20	10/13/22 15:10
590-18959-4	SVE-Soil-Oct13-42Pre4	Solid	10/13/22 13:25	10/13/22 15:10
590-18959-5	SVE-Soil-Oct13-42DUP	Solid	10/13/22 15:00	10/13/22 15:10
590-18959-6	Trip Blank	Solid	10/13/22 00:00	10/13/22 15:10

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18959-1

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: 590-18959-1

Client Sample ID: SVE-Soil-Oct13-42Pre1
Date Collected: 10/13/22 13:10
Date Received: 10/13/22 15:10

Lab Sample ID: 590-18959-1
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.1		0.01	0.01	%			10/14/22 09:34	1
Percent Solids (EPA Moisture)	88.9		0.01	0.01	%			10/14/22 09:34	1

Client Sample ID: SVE-Soil-Oct13-42Pre1
Date Collected: 10/13/22 13:10
Date Received: 10/13/22 15:10

Lab Sample ID: 590-18959-1
Matrix: Solid
Percent Solids: 88.9

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056	0.039	ug/Kg	☼	10/14/22 08:51	10/14/22 10:49	1

Client Sample ID: SVE-Soil-Oct13-42Pre2
Date Collected: 10/13/22 13:15
Date Received: 10/13/22 15:10

Lab Sample ID: 590-18959-2
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.4		0.01	0.01	%			10/14/22 09:34	1
Percent Solids (EPA Moisture)	89.6		0.01	0.01	%			10/14/22 09:34	1

Client Sample ID: SVE-Soil-Oct13-42Pre2
Date Collected: 10/13/22 13:15
Date Received: 10/13/22 15:10

Lab Sample ID: 590-18959-2
Matrix: Solid
Percent Solids: 89.6

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	10/14/22 08:51	10/14/22 11:37	1

Client Sample ID: SVE-Soil-Oct13-42Pre3
Date Collected: 10/13/22 13:20
Date Received: 10/13/22 15:10

Lab Sample ID: 590-18959-3
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.9		0.01	0.01	%			10/14/22 09:34	1
Percent Solids (EPA Moisture)	90.1		0.01	0.01	%			10/14/22 09:34	1

Client Sample ID: SVE-Soil-Oct13-42Pre3
Date Collected: 10/13/22 13:20
Date Received: 10/13/22 15:10

Lab Sample ID: 590-18959-3
Matrix: Solid
Percent Solids: 90.1

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	10/14/22 08:51	10/14/22 11:53	1

Client Sample ID: SVE-Soil-Oct13-42Pre4
Date Collected: 10/13/22 13:25
Date Received: 10/13/22 15:10

Lab Sample ID: 590-18959-4
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.1		0.01	0.01	%			10/14/22 09:34	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18959-1

Client Sample ID: SVE-Soil-Oct13-42Pre4

Lab Sample ID: 590-18959-4

Date Collected: 10/13/22 13:25

Matrix: Solid

Date Received: 10/13/22 15:10

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	86.9		0.01	0.01	%			10/14/22 09:34	1

Client Sample ID: SVE-Soil-Oct13-42Pre4

Lab Sample ID: 590-18959-4

Date Collected: 10/13/22 13:25

Matrix: Solid

Date Received: 10/13/22 15:10

Percent Solids: 86.9

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.057	0.040	ug/Kg	☼	10/14/22 08:51	10/14/22 12:09	1

Client Sample ID: SVE-Soil-Oct13-42DUP

Lab Sample ID: 590-18959-5

Date Collected: 10/13/22 15:00

Matrix: Solid

Date Received: 10/13/22 15:10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.3		0.01	0.01	%			10/14/22 09:34	1
Percent Solids (EPA Moisture)	89.7		0.01	0.01	%			10/14/22 09:34	1

Client Sample ID: SVE-Soil-Oct13-42DUP

Lab Sample ID: 590-18959-5

Date Collected: 10/13/22 15:00

Matrix: Solid

Date Received: 10/13/22 15:10

Percent Solids: 89.7

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	10/14/22 08:51	10/14/22 12:25	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-18959-6

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/13/22 15:10

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.046	0.032	ug/Kg		10/14/22 08:51	10/14/22 12:41	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18959-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38577/2-A
Matrix: Solid
Analysis Batch: 38585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/14/22 08:51	10/14/22 10:17	1

Lab Sample ID: LCS 590-38577/3-A
Matrix: Solid
Analysis Batch: 38585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38577

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: 590-18959-1 MS
Matrix: Solid
Analysis Batch: 38585

Client Sample ID: SVE-Soil-Oct13-42Pre1
Prep Type: Total/NA
Prep Batch: 38577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		1.11	0.957		ug/Kg	⊛	87	60 - 140

Lab Sample ID: 590-18959-1 MSD
Matrix: Solid
Analysis Batch: 38585

Client Sample ID: SVE-Soil-Oct13-42Pre1
Prep Type: Total/NA
Prep Batch: 38577

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.07	0.899		ug/Kg	⊛	84	60 - 140	6	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-18959-1 DU
Matrix: Solid
Analysis Batch: 38584

Client Sample ID: SVE-Soil-Oct13-42Pre1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.1		10.8		%		2	20
Percent Solids	88.9		89.2		%		0.3	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18959-1

Client Sample ID: SVE-Soil-Oct13-42Pre1

Lab Sample ID: 590-18959-1

Date Collected: 10/13/22 13:10

Matrix: Solid

Date Received: 10/13/22 15:10

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			38584	10/14/22 09:34	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct13-42Pre1

Lab Sample ID: 590-18959-1

Date Collected: 10/13/22 13:10

Matrix: Solid

Date Received: 10/13/22 15:10

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.06 g	2 mL	38577	10/14/22 08:51	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38585	10/14/22 10:49	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct13-42Pre2

Lab Sample ID: 590-18959-2

Date Collected: 10/13/22 13:15

Matrix: Solid

Date Received: 10/13/22 15:10

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			38584	10/14/22 09:34	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct13-42Pre2

Lab Sample ID: 590-18959-2

Date Collected: 10/13/22 13:15

Matrix: Solid

Date Received: 10/13/22 15:10

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			10.63 g	2 mL	38577	10/14/22 08:51	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38585	10/14/22 11:37	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct13-42Pre3

Lab Sample ID: 590-18959-3

Date Collected: 10/13/22 13:20

Matrix: Solid

Date Received: 10/13/22 15:10

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			38584	10/14/22 09:34	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct13-42Pre3

Lab Sample ID: 590-18959-3

Date Collected: 10/13/22 13:20

Matrix: Solid

Date Received: 10/13/22 15:10

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			10.38 g	2 mL	38577	10/14/22 08:51	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38585	10/14/22 11:53	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct13-42Pre4

Lab Sample ID: 590-18959-4

Date Collected: 10/13/22 13:25

Matrix: Solid

Date Received: 10/13/22 15:10

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			38584	10/14/22 09:34	NMI	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18959-1

Client Sample ID: SVE-Soil-Oct13-42Pre4

Lab Sample ID: 590-18959-4

Date Collected: 10/13/22 13:25

Matrix: Solid

Date Received: 10/13/22 15:10

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.05 g	2 mL	38577	10/14/22 08:51	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38585	10/14/22 12:09	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct13-42DUP

Lab Sample ID: 590-18959-5

Date Collected: 10/13/22 15:00

Matrix: Solid

Date Received: 10/13/22 15:10

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			38584	10/14/22 09:34	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct13-42DUP

Lab Sample ID: 590-18959-5

Date Collected: 10/13/22 15:00

Matrix: Solid

Date Received: 10/13/22 15:10

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			10.18 g	2 mL	38577	10/14/22 08:51	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38585	10/14/22 12:25	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-18959-6

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/13/22 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.86 g	2 mL	38577	10/14/22 08:51	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38585	10/14/22 12:41	NMI	EET SPK

Laboratory References:

EET 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: 590-18959-1

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: 590-18959-1

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

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



Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18959-1

Login Number: 18959

List Source: Eurofins Spokane

List Number: 1

Creator: Fettig, Riley

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	



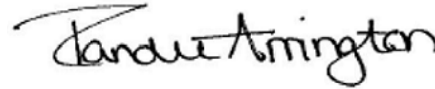
ANALYTICAL REPORT

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

Laboratory Job ID: 590-18987-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
10/18/2022 4:57:11 PM

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

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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: 590-18987-1

Job ID: 590-18987-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/17/2022 3:06 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 3.6° 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: 590-18987-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18987-1	SVE-Soil-Oct15-43Pre1	Solid	10/15/22 12:15	10/17/22 15:06
590-18987-2	SVE-Soil-Oct15-43Pre2	Solid	10/15/22 12:19	10/17/22 15:06
590-18987-3	SVE-Soil-Oct15-43Pre3	Solid	10/15/22 12:21	10/17/22 15:06
590-18987-4	SVE-Soil-Oct15-43Pre4	Solid	10/15/22 12:25	10/17/22 15:06
590-18987-5	Trip Blank	Solid	10/15/22 00:00	10/17/22 15:06

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18987-1

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: 590-18987-1

Client Sample ID: SVE-Soil-Oct15-43Pre1
Date Collected: 10/15/22 12:15
Date Received: 10/17/22 15:06

Lab Sample ID: 590-18987-1
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.3		0.01	0.01	%			10/18/22 07:44	1
Percent Solids (EPA Moisture)	89.7		0.01	0.01	%			10/18/22 07:44	1

Client Sample ID: SVE-Soil-Oct15-43Pre1
Date Collected: 10/15/22 12:15
Date Received: 10/17/22 15:06

Lab Sample ID: 590-18987-1
Matrix: Solid
Percent Solids: 89.7

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056	0.039	ug/Kg	☼	10/18/22 07:54	10/18/22 12:52	1

Client Sample ID: SVE-Soil-Oct15-43Pre2
Date Collected: 10/15/22 12:19
Date Received: 10/17/22 15:06

Lab Sample ID: 590-18987-2
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.2		0.01	0.01	%			10/18/22 07:44	1
Percent Solids (EPA Moisture)	89.8		0.01	0.01	%			10/18/22 07:44	1

Client Sample ID: SVE-Soil-Oct15-43Pre2
Date Collected: 10/15/22 12:19
Date Received: 10/17/22 15:06

Lab Sample ID: 590-18987-2
Matrix: Solid
Percent Solids: 89.8

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	10/18/22 07:54	10/18/22 13:32	1

Client Sample ID: SVE-Soil-Oct15-43Pre3
Date Collected: 10/15/22 12:21
Date Received: 10/17/22 15:06

Lab Sample ID: 590-18987-3
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.0		0.01	0.01	%			10/18/22 07:44	1
Percent Solids (EPA Moisture)	90.0		0.01	0.01	%			10/18/22 07:44	1

Client Sample ID: SVE-Soil-Oct15-43Pre3
Date Collected: 10/15/22 12:21
Date Received: 10/17/22 15:06

Lab Sample ID: 590-18987-3
Matrix: Solid
Percent Solids: 90.0

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	10/18/22 07:54	10/18/22 13:42	1

Client Sample ID: SVE-Soil-Oct15-43Pre4
Date Collected: 10/15/22 12:25
Date Received: 10/17/22 15:06

Lab Sample ID: 590-18987-4
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.4		0.01	0.01	%			10/18/22 07:44	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18987-1

Client Sample ID: SVE-Soil-Oct15-43Pre4

Lab Sample ID: 590-18987-4

Date Collected: 10/15/22 12:25

Matrix: Solid

Date Received: 10/17/22 15:06

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.6		0.01	0.01	%			10/18/22 07:44	1

Client Sample ID: SVE-Soil-Oct15-43Pre4

Lab Sample ID: 590-18987-4

Date Collected: 10/15/22 12:25

Matrix: Solid

Date Received: 10/17/22 15:06

Percent Solids: 87.6

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	✱	10/18/22 07:54	10/18/22 13:57	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-18987-5

Date Collected: 10/15/22 00:00

Matrix: Solid

Date Received: 10/17/22 15:06

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		10/18/22 07:54	10/18/22 14:06	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18987-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38634/2-A
Matrix: Solid
Analysis Batch: 38644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/18/22 07:54	10/18/22 12:31	1

Lab Sample ID: LCS 590-38634/3-A
Matrix: Solid
Analysis Batch: 38644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.10		ug/Kg		110	60 - 140

Lab Sample ID: 590-18987-1 MS
Matrix: Solid
Analysis Batch: 38644

Client Sample ID: SVE-Soil-Oct15-43Pre1
Prep Type: Total/NA
Prep Batch: 38634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		1.11	0.832		ug/Kg	⊛	75	60 - 140

Lab Sample ID: 590-18987-1 MSD
Matrix: Solid
Analysis Batch: 38644

Client Sample ID: SVE-Soil-Oct15-43Pre1
Prep Type: Total/NA
Prep Batch: 38634

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.07	0.813		ug/Kg	⊛	76	60 - 140	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-18987-1 DU
Matrix: Solid
Analysis Batch: 38633

Client Sample ID: SVE-Soil-Oct15-43Pre1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.3		10.9		%		6	20
Percent Solids	89.7		89.1		%		0.8	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18987-1

Client Sample ID: SVE-Soil-Oct15-43Pre1

Lab Sample ID: 590-18987-1

Date Collected: 10/15/22 12:15

Matrix: Solid

Date Received: 10/17/22 15:06

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			38633	10/18/22 07:44	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct15-43Pre1

Lab Sample ID: 590-18987-1

Date Collected: 10/15/22 12:15

Matrix: Solid

Date Received: 10/17/22 15:06

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			10.01 g	2 mL	38634	10/18/22 07:54	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38644	10/18/22 12:52	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct15-43Pre2

Lab Sample ID: 590-18987-2

Date Collected: 10/15/22 12:19

Matrix: Solid

Date Received: 10/17/22 15:06

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			38633	10/18/22 07:44	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct15-43Pre2

Lab Sample ID: 590-18987-2

Date Collected: 10/15/22 12:19

Matrix: Solid

Date Received: 10/17/22 15:06

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			10.38 g	2 mL	38634	10/18/22 07:54	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38644	10/18/22 13:32	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct15-43Pre3

Lab Sample ID: 590-18987-3

Date Collected: 10/15/22 12:21

Matrix: Solid

Date Received: 10/17/22 15:06

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			38633	10/18/22 07:44	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct15-43Pre3

Lab Sample ID: 590-18987-3

Date Collected: 10/15/22 12:21

Matrix: Solid

Date Received: 10/17/22 15:06

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			10.24 g	2 mL	38634	10/18/22 07:54	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38644	10/18/22 13:42	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct15-43Pre4

Lab Sample ID: 590-18987-4

Date Collected: 10/15/22 12:25

Matrix: Solid

Date Received: 10/17/22 15:06

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			38633	10/18/22 07:44	M1V	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18987-1

Client Sample ID: SVE-Soil-Oct15-43Pre4

Lab Sample ID: 590-18987-4

Date Collected: 10/15/22 12:25

Matrix: Solid

Date Received: 10/17/22 15:06

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.69 g	2 mL	38634	10/18/22 07:54	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38644	10/18/22 13:57	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-18987-5

Date Collected: 10/15/22 00:00

Matrix: Solid

Date Received: 10/17/22 15:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.57 g	2 mL	38634	10/18/22 07:54	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38644	10/18/22 14:06	NMI	EET SPK

Laboratory References:

EET 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: 590-18987-1

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: 590-18987-1

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

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



Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18987-1

Login Number: 18987

List Source: Eurofins Spokane

List Number: 1

Creator: Fettig, Riley

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



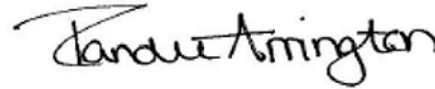
ANALYTICAL REPORT

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

Laboratory Job ID: 590-18988-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
10/18/2022 4:58:04 PM

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

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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: 590-18988-1

Job ID: 590-18988-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/17/2022 3:06 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 3.6° 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: 590-18988-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18988-1	SVE-Soil-Oct17-44Pre1	Solid	10/17/22 12:48	10/17/22 15:06
590-18988-2	SVE-Soil-Oct17-44Pre2	Solid	10/17/22 12:51	10/17/22 15:06
590-18988-3	SVE-Soil-Oct17-44Pre3	Solid	10/17/22 12:54	10/17/22 15:06
590-18988-4	SVE-Soil-Oct17-44Pre4	Solid	10/17/22 12:57	10/17/22 15:06
590-18988-5	Trip Blank	Solid	10/17/22 00:00	10/17/22 15:06

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18988-1

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: 590-18988-1

Client Sample ID: SVE-Soil-Oct17-44Pre1

Lab Sample ID: 590-18988-1

Date Collected: 10/17/22 12:48

Matrix: Solid

Date Received: 10/17/22 15:06

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.7		0.01	0.01	%			10/18/22 07:44	1
Percent Solids (EPA Moisture)	89.3		0.01	0.01	%			10/18/22 07:44	1

Client Sample ID: SVE-Soil-Oct17-44Pre1

Lab Sample ID: 590-18988-1

Date Collected: 10/17/22 12:48

Matrix: Solid

Date Received: 10/17/22 15:06

Percent Solids: 89.3

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.037	ug/Kg	☼	10/18/22 07:54	10/18/22 14:14	1

Client Sample ID: SVE-Soil-Oct17-44Pre2

Lab Sample ID: 590-18988-2

Date Collected: 10/17/22 12:51

Matrix: Solid

Date Received: 10/17/22 15:06

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.3		0.01	0.01	%			10/18/22 07:44	1
Percent Solids (EPA Moisture)	89.7		0.01	0.01	%			10/18/22 07:44	1

Client Sample ID: SVE-Soil-Oct17-44Pre2

Lab Sample ID: 590-18988-2

Date Collected: 10/17/22 12:51

Matrix: Solid

Date Received: 10/17/22 15:06

Percent Solids: 89.7

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	☼	10/18/22 07:54	10/18/22 14:47	1

Client Sample ID: SVE-Soil-Oct17-44Pre3

Lab Sample ID: 590-18988-3

Date Collected: 10/17/22 12:54

Matrix: Solid

Date Received: 10/17/22 15:06

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.6		0.01	0.01	%			10/18/22 07:44	1
Percent Solids (EPA Moisture)	90.4		0.01	0.01	%			10/18/22 07:44	1

Client Sample ID: SVE-Soil-Oct17-44Pre3

Lab Sample ID: 590-18988-3

Date Collected: 10/17/22 12:54

Matrix: Solid

Date Received: 10/17/22 15:06

Percent Solids: 90.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	☼	10/18/22 07:54	10/18/22 15:00	1

Client Sample ID: SVE-Soil-Oct17-44Pre4

Lab Sample ID: 590-18988-4

Date Collected: 10/17/22 12:57

Matrix: Solid

Date Received: 10/17/22 15:06

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.4		0.01	0.01	%			10/18/22 07:44	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18988-1

Client Sample ID: SVE-Soil-Oct17-44Pre4

Lab Sample ID: 590-18988-4

Date Collected: 10/17/22 12:57

Matrix: Solid

Date Received: 10/17/22 15:06

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.6		0.01	0.01	%			10/18/22 07:44	1

Client Sample ID: SVE-Soil-Oct17-44Pre4

Lab Sample ID: 590-18988-4

Date Collected: 10/17/22 12:57

Matrix: Solid

Date Received: 10/17/22 15:06

Percent Solids: 87.6

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.057	0.040	ug/Kg	✱	10/18/22 07:54	10/18/22 15:13	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-18988-5

Date Collected: 10/17/22 00:00

Matrix: Solid

Date Received: 10/17/22 15:06

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/18/22 07:54	10/18/22 15:24	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18988-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38634/2-A
Matrix: Solid
Analysis Batch: 38644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/18/22 07:54	10/18/22 12:31	1

Lab Sample ID: LCS 590-38634/3-A
Matrix: Solid
Analysis Batch: 38644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.10		ug/Kg		110	60 - 140

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18988-1

Client Sample ID: SVE-Soil-Oct17-44Pre1

Lab Sample ID: 590-18988-1

Date Collected: 10/17/22 12:48

Matrix: Solid

Date Received: 10/17/22 15:06

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			38633	10/18/22 07:44	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct17-44Pre1

Lab Sample ID: 590-18988-1

Date Collected: 10/17/22 12:48

Matrix: Solid

Date Received: 10/17/22 15:06

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.71 g	2 mL	38634	10/18/22 07:54	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38644	10/18/22 14:14	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct17-44Pre2

Lab Sample ID: 590-18988-2

Date Collected: 10/17/22 12:51

Matrix: Solid

Date Received: 10/17/22 15:06

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			38633	10/18/22 07:44	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct17-44Pre2

Lab Sample ID: 590-18988-2

Date Collected: 10/17/22 12:51

Matrix: Solid

Date Received: 10/17/22 15:06

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			10.11 g	2 mL	38634	10/18/22 07:54	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38644	10/18/22 14:47	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct17-44Pre3

Lab Sample ID: 590-18988-3

Date Collected: 10/17/22 12:54

Matrix: Solid

Date Received: 10/17/22 15:06

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			38633	10/18/22 07:44	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct17-44Pre3

Lab Sample ID: 590-18988-3

Date Collected: 10/17/22 12:54

Matrix: Solid

Date Received: 10/17/22 15:06

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.02 g	2 mL	38634	10/18/22 07:54	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38644	10/18/22 15:00	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct17-44Pre4

Lab Sample ID: 590-18988-4

Date Collected: 10/17/22 12:57

Matrix: Solid

Date Received: 10/17/22 15:06

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			38633	10/18/22 07:44	M1V	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18988-1

Client Sample ID: SVE-Soil-Oct17-44Pre4

Lab Sample ID: 590-18988-4

Date Collected: 10/17/22 12:57

Matrix: Solid

Date Received: 10/17/22 15:06

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.08 g	2 mL	38634	10/18/22 07:54	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38644	10/18/22 15:13	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-18988-5

Date Collected: 10/17/22 00:00

Matrix: Solid

Date Received: 10/17/22 15:06

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	38634	10/18/22 07:54	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38644	10/18/22 15:24	NMI	EET SPK

Laboratory References:

EET 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: 590-18988-1

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

- 1
- 2
- 3
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- 10
- 11
- 12

Method Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18988-1

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

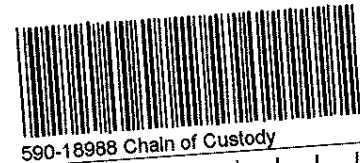
Laboratory References:

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



Chain of Custody Record

Client Information		Sampler: Jerred Newcomb, JAN / <i>Daniel Bonds</i>		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:		Analysis Requested						Job #:																																																																			
Address: 835 N Post St. Ste. 101		Due Date Requested:		<table border="1"> <tr><td>Field Filtered Sample (Yes or No)</td><td></td></tr> <tr><td>Perform MS/MSD (Yes or No)</td><td></td></tr> <tr><td>8011 EDB</td><td></td></tr> </table>						Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8011 EDB		Preservation Codes		Other:																																																											
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Perform MS/MSD (Yes or No)																																																																													
8011 EDB																																																																													
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 Na2SO3																																																																					
Phone: 509-899-4371		PO #:		G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate		I Ice U Acetone																																																																					
Email: jerred.newcomb@hdrinc.com		Purchase Order Requested		J DI Water V MCAA		K EDTA W pH 4-5		L EDA Z other (specify)																																																																					
Project Name: Simplot Warden		Project #: 59002373		<table border="1"> <tr><td>Total Number of Containers:</td><td></td></tr> </table>						Total Number of Containers:		Special Instructions/Note:																																																																	
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Site: Warden WA		SSOW#:		<table border="1"> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>MATRIX (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8011 EDB</th> <th>Total Number of Containers</th> <th>Special Instructions/Note</th> </tr> <tr> <td colspan="10">Preservation Code: <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>SVE-Soil-Oct 17-44Pre1</td> <td>10/17/2022</td> <td>12:48</td> <td>G</td> <td>S</td> <td>N</td> <td>N</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>SVE-Soil-Oct 17-44Pre2</td> <td>10/17/2022</td> <td>12:51</td> <td>G</td> <td>S</td> <td>N</td> <td>N</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>SVE-Soil-Oct 17-44Pre3</td> <td>10/17/2022</td> <td>12:54</td> <td>G</td> <td>S</td> <td>N</td> <td>N</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>SVE-Soil-Oct 17-44Pre4</td> <td>10/17/2022</td> <td>12:57</td> <td>G</td> <td>S</td> <td>N</td> <td>N</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>Trip Blank</td> <td></td> <td></td> <td></td> <td>S</td> <td>N</td> <td>N</td> <td>X</td> <td>1</td> <td></td> </tr> </table>		Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 EDB	Total Number of Containers	Special Instructions/Note	Preservation Code: <input checked="" type="checkbox"/> N										SVE-Soil-Oct 17-44Pre1	10/17/2022	12:48	G	S	N	N	X	1		SVE-Soil-Oct 17-44Pre2	10/17/2022	12:51	G	S	N	N	X	1		SVE-Soil-Oct 17-44Pre3	10/17/2022	12:54	G	S	N	N	X	1		SVE-Soil-Oct 17-44Pre4	10/17/2022	12:57	G	S	N	N	X	1		Trip Blank				S	N	N	X	1			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 EDB	Total Number of Containers	Special Instructions/Note																																																																				
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Trip Blank				S	N	N	X	1																																																																					



Possible Hazard Identification
 Non-Hazard Flammable Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested. I, II, III, IV Other (specify) _____

Special Instructions/QC Requirements.

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: <i>[Signature]</i>	Date/Time: 10/17/22 15:06	Company: HDR	Received by: <i>[Signature]</i>	Date/Time: 10/17/22 15:00	Company: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Yes No Custody Seal No. _____ Cooler Temperature(s) °C and Other Remarks: 31 3.0 (flow corrd) 10/18/2022

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18988-1

Login Number: 18988

List Number: 1

Creator: Fettig, Riley

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	

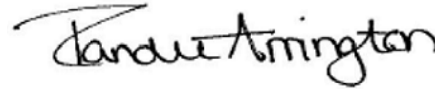
ANALYTICAL REPORT

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

Laboratory Job ID: 590-19011-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
10/20/2022 3:53:02 PM

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

LINKS

Review your project
results through



Have a Question?



Visit us at:

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: 590-19011-1

Job ID: 590-19011-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/19/2022 3:00 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 3.2° 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: 590-19011-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19011-1	SVE-Soil-Oct19-45Pre1	Solid	10/19/22 12:47	10/19/22 15:00
590-19011-2	SVE-Soil-Oct19-45Pre2	Solid	10/19/22 12:50	10/19/22 15:00
590-19011-3	SVE-Soil-Oct19-45Pre3	Solid	10/19/22 12:54	10/19/22 15:00
590-19011-4	SVE-Soil-Oct19-45Pre4	Solid	10/19/22 12:58	10/19/22 15:00
590-19011-5	Trip Blank	Solid	10/19/22 00:00	10/19/22 15:00

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19011-1

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: 590-19011-1

Client Sample ID: SVE-Soil-Oct19-45Pre1

Lab Sample ID: 590-19011-1

Date Collected: 10/19/22 12:47

Matrix: Solid

Date Received: 10/19/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.7		0.01	0.01	%			10/20/22 08:10	1
Percent Solids (EPA Moisture)	89.3		0.01	0.01	%			10/20/22 08:10	1

Client Sample ID: SVE-Soil-Oct19-45Pre1

Lab Sample ID: 590-19011-1

Date Collected: 10/19/22 12:47

Matrix: Solid

Date Received: 10/19/22 15:00

Percent Solids: 89.3

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	10/20/22 08:22	10/20/22 10:34	1

Client Sample ID: SVE-Soil-Oct19-45Pre2

Lab Sample ID: 590-19011-2

Date Collected: 10/19/22 12:50

Matrix: Solid

Date Received: 10/19/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.6		0.01	0.01	%			10/20/22 08:10	1
Percent Solids (EPA Moisture)	90.4		0.01	0.01	%			10/20/22 08:10	1

Client Sample ID: SVE-Soil-Oct19-45Pre2

Lab Sample ID: 590-19011-2

Date Collected: 10/19/22 12:50

Matrix: Solid

Date Received: 10/19/22 15:00

Percent Solids: 90.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	☼	10/20/22 08:22	10/20/22 11:22	1

Client Sample ID: SVE-Soil-Oct19-45Pre3

Lab Sample ID: 590-19011-3

Date Collected: 10/19/22 12:54

Matrix: Solid

Date Received: 10/19/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.6		0.01	0.01	%			10/20/22 08:10	1
Percent Solids (EPA Moisture)	88.4		0.01	0.01	%			10/20/22 08:10	1

Client Sample ID: SVE-Soil-Oct19-45Pre3

Lab Sample ID: 590-19011-3

Date Collected: 10/19/22 12:54

Matrix: Solid

Date Received: 10/19/22 15:00

Percent Solids: 88.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	10/20/22 08:22	10/20/22 11:39	1

Client Sample ID: SVE-Soil-Oct19-45Pre4

Lab Sample ID: 590-19011-4

Date Collected: 10/19/22 12:58

Matrix: Solid

Date Received: 10/19/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.2		0.01	0.01	%			10/20/22 08:10	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19011-1

Client Sample ID: SVE-Soil-Oct19-45Pre4

Lab Sample ID: 590-19011-4

Date Collected: 10/19/22 12:58

Matrix: Solid

Date Received: 10/19/22 15:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	84.8		0.01	0.01	%			10/20/22 08:10	1

Client Sample ID: SVE-Soil-Oct19-45Pre4

Lab Sample ID: 590-19011-4

Date Collected: 10/19/22 12:58

Matrix: Solid

Date Received: 10/19/22 15:00

Percent Solids: 84.8

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056	0.039	ug/Kg	☼	10/20/22 08:22	10/20/22 11:55	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-19011-5

Date Collected: 10/19/22 00:00

Matrix: Solid

Date Received: 10/19/22 15:00

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/20/22 08:22	10/20/22 12:11	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19011-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38674/2-A
Matrix: Solid
Analysis Batch: 38675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/20/22 08:22	10/20/22 10:02	1

Lab Sample ID: LCS 590-38674/3-A
Matrix: Solid
Analysis Batch: 38675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.19		ug/Kg		119	60 - 140

Lab Sample ID: 590-19011-1 MS
Matrix: Solid
Analysis Batch: 38675

Client Sample ID: SVE-Soil-Oct19-45Pre1
Prep Type: Total/NA
Prep Batch: 38674

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		1.11	0.940		ug/Kg	⊛	84	60 - 140

Lab Sample ID: 590-19011-1 MSD
Matrix: Solid
Analysis Batch: 38675

Client Sample ID: SVE-Soil-Oct19-45Pre1
Prep Type: Total/NA
Prep Batch: 38674

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.12	1.08		ug/Kg	⊛	97	60 - 140	14	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-19011-1 DU
Matrix: Solid
Analysis Batch: 38673

Client Sample ID: SVE-Soil-Oct19-45Pre1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.7		11.6		%		8	20
Percent Solids	89.3		88.4		%		1	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19011-1

Client Sample ID: SVE-Soil-Oct19-45Pre1

Lab Sample ID: 590-19011-1

Date Collected: 10/19/22 12:47

Matrix: Solid

Date Received: 10/19/22 15:00

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			38673	10/20/22 08:10	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct19-45Pre1

Lab Sample ID: 590-19011-1

Date Collected: 10/19/22 12:47

Matrix: Solid

Date Received: 10/19/22 15:00

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.27 g	2 mL	38674	10/20/22 08:22	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38675	10/20/22 10:34	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct19-45Pre2

Lab Sample ID: 590-19011-2

Date Collected: 10/19/22 12:50

Matrix: Solid

Date Received: 10/19/22 15:00

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			38673	10/20/22 08:10	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct19-45Pre2

Lab Sample ID: 590-19011-2

Date Collected: 10/19/22 12:50

Matrix: Solid

Date Received: 10/19/22 15:00

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.02 g	2 mL	38674	10/20/22 08:22	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38675	10/20/22 11:22	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct19-45Pre3

Lab Sample ID: 590-19011-3

Date Collected: 10/19/22 12:54

Matrix: Solid

Date Received: 10/19/22 15:00

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			38673	10/20/22 08:10	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct19-45Pre3

Lab Sample ID: 590-19011-3

Date Collected: 10/19/22 12:54

Matrix: Solid

Date Received: 10/19/22 15:00

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.32 g	2 mL	38674	10/20/22 08:22	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38675	10/20/22 11:39	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct19-45Pre4

Lab Sample ID: 590-19011-4

Date Collected: 10/19/22 12:58

Matrix: Solid

Date Received: 10/19/22 15:00

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			38673	10/20/22 08:10	M1V	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19011-1

Client Sample ID: SVE-Soil-Oct19-45Pre4

Lab Sample ID: 590-19011-4

Date Collected: 10/19/22 12:58

Matrix: Solid

Date Received: 10/19/22 15:00

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.47 g	2 mL	38674	10/20/22 08:22	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38675	10/20/22 11:55	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-19011-5

Date Collected: 10/19/22 00:00

Matrix: Solid

Date Received: 10/19/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.02 g	2 mL	38674	10/20/22 08:22	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38675	10/20/22 12:11	NMI	EET SPK

Laboratory References:

EET 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: 590-19011-1

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: 590-19011-1

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

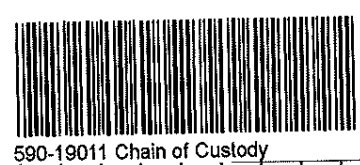
Laboratory References:

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



Chain of Custody Record

Client Information		Sampler Jered Newcomb, JAN / DANIEL BRANDS, DB		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:		Analysis Requested						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: _____		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)							
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/oil, 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:	
SVE-Soil-Oct 19-45Pre1		10/19/2022		12 47		G		S		N		N		X					
SVE-Soil-Oct 19-45Pre2		10/19/2022		12 50		G		S		N		N		X					
SVE-Soil-Oct 19-45Pre3		10/19/2022		12 54		G		S		N		N		X					
SVE-Soil-Oct 19-45Pre4		10/19/2022		12 58		G		S		N		N		X					
Trip Blank								S		N		N		X					



Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Ammable <input type="checkbox"/> Solvent <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: <i>[Signature]</i>		Date/Time: 10/19/22 15:00		Company: HDR		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19011-1

Login Number: 19011

List Number: 1

Creator: Vaughan, Madison 1

List Source: Eurofins Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

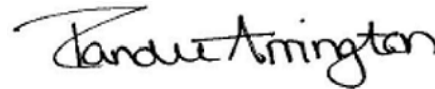
ANALYTICAL REPORT

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

Laboratory Job ID: 590-19042-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
10/24/2022 3:56:52 PM

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

LINKS

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results through



Have a Question?



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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: 590-19042-1

Job ID: 590-19042-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/21/2022 3:36 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 5.2° 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: 590-19042-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19042-1	SVE-Soil-Oct21-46Pre1	Solid	10/21/22 12:05	10/21/22 15:36
590-19042-2	SVE-Soil-Oct21-46Pre2	Solid	10/21/22 12:07	10/21/22 15:36
590-19042-3	SVE-Soil-Oct21-46Pre3	Solid	10/21/22 12:09	10/21/22 15:36
590-19042-4	SVE-Soil-Oct21-46Pre4	Solid	10/21/22 12:11	10/21/22 15:36
590-19042-5	SVE-Soil-Oct21-46DUP	Solid	10/21/22 12:00	10/21/22 15:36
590-19042-6	Trip Blank	Solid	10/21/22 00:00	10/21/22 15:36

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19042-1

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: 590-19042-1

Client Sample ID: SVE-Soil-Oct21-46Pre1
Date Collected: 10/21/22 12:05
Date Received: 10/21/22 15:36

Lab Sample ID: 590-19042-1
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.8		0.01	0.01	%			10/24/22 09:10	1
Percent Solids (EPA Moisture)	89.2		0.01	0.01	%			10/24/22 09:10	1

Client Sample ID: SVE-Soil-Oct21-46Pre1
Date Collected: 10/21/22 12:05
Date Received: 10/21/22 15:36

Lab Sample ID: 590-19042-1
Matrix: Solid
Percent Solids: 89.2

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	10/24/22 08:38	10/24/22 10:35	1

Client Sample ID: SVE-Soil-Oct21-46Pre2
Date Collected: 10/21/22 12:07
Date Received: 10/21/22 15:36

Lab Sample ID: 590-19042-2
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.6		0.01	0.01	%			10/24/22 09:10	1
Percent Solids (EPA Moisture)	87.4		0.01	0.01	%			10/24/22 09:10	1

Client Sample ID: SVE-Soil-Oct21-46Pre2
Date Collected: 10/21/22 12:07
Date Received: 10/21/22 15:36

Lab Sample ID: 590-19042-2
Matrix: Solid
Percent Solids: 87.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056	0.039	ug/Kg	☼	10/24/22 08:38	10/24/22 10:51	1

Client Sample ID: SVE-Soil-Oct21-46Pre3
Date Collected: 10/21/22 12:09
Date Received: 10/21/22 15:36

Lab Sample ID: 590-19042-3
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.3		0.01	0.01	%			10/24/22 09:10	1
Percent Solids (EPA Moisture)	88.7		0.01	0.01	%			10/24/22 09:10	1

Client Sample ID: SVE-Soil-Oct21-46Pre3
Date Collected: 10/21/22 12:09
Date Received: 10/21/22 15:36

Lab Sample ID: 590-19042-3
Matrix: Solid
Percent Solids: 88.7

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	10/24/22 08:38	10/24/22 11:40	1

Client Sample ID: SVE-Soil-Oct21-46Pre4
Date Collected: 10/21/22 12:11
Date Received: 10/21/22 15:36

Lab Sample ID: 590-19042-4
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.7		0.01	0.01	%			10/24/22 09:10	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19042-1

Client Sample ID: SVE-Soil-Oct21-46Pre4

Lab Sample ID: 590-19042-4

Date Collected: 10/21/22 12:11

Matrix: Solid

Date Received: 10/21/22 15:36

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	88.3		0.01	0.01	%			10/24/22 09:10	1

Client Sample ID: SVE-Soil-Oct21-46Pre4

Lab Sample ID: 590-19042-4

Date Collected: 10/21/22 12:11

Matrix: Solid

Date Received: 10/21/22 15:36

Percent Solids: 88.3

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	☼	10/24/22 08:38	10/24/22 11:56	1

Client Sample ID: SVE-Soil-Oct21-46DUP

Lab Sample ID: 590-19042-5

Date Collected: 10/21/22 12:00

Matrix: Solid

Date Received: 10/21/22 15:36

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.7		0.01	0.01	%			10/24/22 09:10	1
Percent Solids (EPA Moisture)	89.3		0.01	0.01	%			10/24/22 09:10	1

Client Sample ID: SVE-Soil-Oct21-46DUP

Lab Sample ID: 590-19042-5

Date Collected: 10/21/22 12:00

Matrix: Solid

Date Received: 10/21/22 15:36

Percent Solids: 89.3

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	10/24/22 08:38	10/24/22 12:12	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-19042-6

Date Collected: 10/21/22 00:00

Matrix: Solid

Date Received: 10/21/22 15:36

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		10/24/22 08:38	10/24/22 12:28	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19042-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38719/2-A
Matrix: Solid
Analysis Batch: 38721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/24/22 08:38	10/24/22 10:02	1

Lab Sample ID: LCS 590-38719/3-A
Matrix: Solid
Analysis Batch: 38721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	0.995		ug/Kg		100	60 - 140

Lab Sample ID: 590-19042-2 MS
Matrix: Solid
Analysis Batch: 38721

Client Sample ID: SVE-Soil-Oct21-46Pre2
Prep Type: Total/NA
Prep Batch: 38719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		1.13	0.914		ug/Kg	⊛	81	60 - 140

Lab Sample ID: 590-19042-2 MSD
Matrix: Solid
Analysis Batch: 38721

Client Sample ID: SVE-Soil-Oct21-46Pre2
Prep Type: Total/NA
Prep Batch: 38719

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.12	0.969		ug/Kg	⊛	87	60 - 140	6	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-19042-2 DU
Matrix: Solid
Analysis Batch: 38720

Client Sample ID: SVE-Soil-Oct21-46Pre2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12.6		11.1		%		12	20
Percent Solids	87.4		88.9		%		2	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19042-1

Client Sample ID: SVE-Soil-Oct21-46Pre1

Lab Sample ID: 590-19042-1

Date Collected: 10/21/22 12:05

Matrix: Solid

Date Received: 10/21/22 15:36

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			38720	10/24/22 09:10	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct21-46Pre1

Lab Sample ID: 590-19042-1

Date Collected: 10/21/22 12:05

Matrix: Solid

Date Received: 10/21/22 15:36

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			10.23 g	2 mL	38719	10/24/22 08:38	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38721	10/24/22 10:35	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct21-46Pre2

Lab Sample ID: 590-19042-2

Date Collected: 10/21/22 12:07

Matrix: Solid

Date Received: 10/21/22 15:36

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			38720	10/24/22 09:10	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct21-46Pre2

Lab Sample ID: 590-19042-2

Date Collected: 10/21/22 12:07

Matrix: Solid

Date Received: 10/21/22 15:36

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.25 g	2 mL	38719	10/24/22 08:38	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38721	10/24/22 10:51	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct21-46Pre3

Lab Sample ID: 590-19042-3

Date Collected: 10/21/22 12:09

Matrix: Solid

Date Received: 10/21/22 15:36

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			38720	10/24/22 09:10	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct21-46Pre3

Lab Sample ID: 590-19042-3

Date Collected: 10/21/22 12:09

Matrix: Solid

Date Received: 10/21/22 15:36

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.44 g	2 mL	38719	10/24/22 08:38	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38721	10/24/22 11:40	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct21-46Pre4

Lab Sample ID: 590-19042-4

Date Collected: 10/21/22 12:11

Matrix: Solid

Date Received: 10/21/22 15:36

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			38720	10/24/22 09:10	M1V	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19042-1

Client Sample ID: SVE-Soil-Oct21-46Pre4

Lab Sample ID: 590-19042-4

Date Collected: 10/21/22 12:11

Matrix: Solid

Date Received: 10/21/22 15:36

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.27 g	2 mL	38719	10/24/22 08:38	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38721	10/24/22 11:56	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct21-46DUP

Lab Sample ID: 590-19042-5

Date Collected: 10/21/22 12:00

Matrix: Solid

Date Received: 10/21/22 15:36

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			38720	10/24/22 09:10	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct21-46DUP

Lab Sample ID: 590-19042-5

Date Collected: 10/21/22 12:00

Matrix: Solid

Date Received: 10/21/22 15:36

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.23 g	2 mL	38719	10/24/22 08:38	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38721	10/24/22 12:12	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-19042-6

Date Collected: 10/21/22 00:00

Matrix: Solid

Date Received: 10/21/22 15:36

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	38719	10/24/22 08:38	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38721	10/24/22 12:28	NMI	EET SPK

Laboratory References:

EET 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: 590-19042-1

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: 590-19042-1

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

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



Chain of Custody Record

Client Information		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:		Job #:	

Address: 835 N Post St. Ste 101		Due Date Requested		Analysis Requested		Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)	
City: Spokane		TAT Requested (days): 24 hour					
State, Zip: WA, 99202		Compliance Project: A Yes Δ No					
Phone: 509-899-4371		PO #: Purchase Order Requested					
Email: jered.newcomb@hdrinc.com		WO #:		Total Number of Containers:			
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/oil, 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
					Field Filtered	MS/MSD	MS/MSD	Field Filtered	MS/MSD	MS/MSD			
Preservation Code:													
SVE-Soil-Oct ₂ -46Pre1	10/21/2022	1205	G	S	N	N	X					1	
SVE-Soil-Oct ₂ -46Pre2	10/21/2022	1207	G	S	N	N	X					1	
SVE-Soil-Oct ₂ -46Pre3	10/21/2022	1209	G	S	N	N	X					1	
SVE-Soil-Oct ₂ -46Pre4	10/21/2022	1211	G	S	N	N	X					1	
SVE-Soil-Oct ₂ -46DUP	10/21/2022	1200	G	S	N	N	X					1	
Trip Blank				S	N	N	X					1	



Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Solvent	<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: <i>[Signature]</i>	Date/Time: 10/21/22 15:35	Company: HOR	Received by: <i>[Signature]</i>	Date/Time: 10/21/22 15:36	Company: EOT/AD
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Page 13 of 14	Cooler Temperature(s) °C and Other Remarks: 5.2°C Cool 112006 10/24/2022
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Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19042-1

Login Number: 19042

List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

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



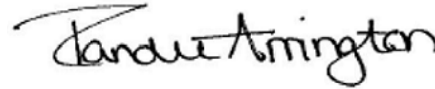
ANALYTICAL REPORT

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

Laboratory Job ID: 590-19064-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
10/26/2022 6:12:57 PM

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

LINKS

Review your project
results through



Have a Question?



Visit us at:

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: 590-19064-1

Job ID: 590-19064-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/25/2022 4:10 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 3.4° 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: 590-19064-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19064-1	SVE-Soil-Oct23-47Pre1	Solid	10/23/22 11:17	10/25/22 16:10
590-19064-2	SVE-Soil-Oct23-47Pre2	Solid	10/23/22 11:22	10/25/22 16:10
590-19064-3	SVE-Soil-Oct23-47Pre3	Solid	10/23/22 11:27	10/25/22 16:10
590-19064-4	SVE-Soil-Oct23-47Pre4	Solid	10/23/22 13:33	10/25/22 16:10
590-19064-5	Trip Blank	Solid	10/23/22 00:00	10/25/22 16:10

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19064-1

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: 590-19064-1

Client Sample ID: SVE-Soil-Oct23-47Pre1

Lab Sample ID: 590-19064-1

Date Collected: 10/23/22 11:17

Matrix: Solid

Date Received: 10/25/22 16:10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.1		0.01	0.01	%			10/26/22 09:46	1
Percent Solids (EPA Moisture)	89.9		0.01	0.01	%			10/26/22 09:46	1

Client Sample ID: SVE-Soil-Oct23-47Pre1

Lab Sample ID: 590-19064-1

Date Collected: 10/23/22 11:17

Matrix: Solid

Date Received: 10/25/22 16:10

Percent Solids: 89.9

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056	0.039	ug/Kg	☼	10/26/22 08:21	10/26/22 11:20	1

Client Sample ID: SVE-Soil-Oct23-47Pre2

Lab Sample ID: 590-19064-2

Date Collected: 10/23/22 11:22

Matrix: Solid

Date Received: 10/25/22 16:10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.5		0.01	0.01	%			10/26/22 09:46	1
Percent Solids (EPA Moisture)	89.5		0.01	0.01	%			10/26/22 09:46	1

Client Sample ID: SVE-Soil-Oct23-47Pre2

Lab Sample ID: 590-19064-2

Date Collected: 10/23/22 11:22

Matrix: Solid

Date Received: 10/25/22 16:10

Percent Solids: 89.5

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	10/26/22 08:21	10/26/22 12:09	1

Client Sample ID: SVE-Soil-Oct23-47Pre3

Lab Sample ID: 590-19064-3

Date Collected: 10/23/22 11:27

Matrix: Solid

Date Received: 10/25/22 16:10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.6		0.01	0.01	%			10/26/22 09:46	1
Percent Solids (EPA Moisture)	89.4		0.01	0.01	%			10/26/22 09:46	1

Client Sample ID: SVE-Soil-Oct23-47Pre3

Lab Sample ID: 590-19064-3

Date Collected: 10/23/22 11:27

Matrix: Solid

Date Received: 10/25/22 16:10

Percent Solids: 89.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	10/26/22 08:21	10/26/22 12:25	1

Client Sample ID: SVE-Soil-Oct23-47Pre4

Lab Sample ID: 590-19064-4

Date Collected: 10/23/22 13:33

Matrix: Solid

Date Received: 10/25/22 16:10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.4		0.01	0.01	%			10/26/22 09:46	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19064-1

Client Sample ID: SVE-Soil-Oct23-47Pre4

Lab Sample ID: 590-19064-4

Date Collected: 10/23/22 13:33

Matrix: Solid

Date Received: 10/25/22 16:10

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	89.6		0.01	0.01	%			10/26/22 09:46	1

Client Sample ID: SVE-Soil-Oct23-47Pre4

Lab Sample ID: 590-19064-4

Date Collected: 10/23/22 13:33

Matrix: Solid

Date Received: 10/25/22 16:10

Percent Solids: 89.6

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	✱	10/26/22 08:21	10/26/22 12:42	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-19064-5

Date Collected: 10/23/22 00:00

Matrix: Solid

Date Received: 10/25/22 16:10

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.049	0.034	ug/Kg		10/26/22 08:21	10/26/22 12:58	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19064-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38758/2-A
Matrix: Solid
Analysis Batch: 38772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/26/22 08:21	10/26/22 10:48	1

Lab Sample ID: LCS 590-38758/3-A
Matrix: Solid
Analysis Batch: 38772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38758

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: 590-19064-1 MS
Matrix: Solid
Analysis Batch: 38772

Client Sample ID: SVE-Soil-Oct23-47Pre1
Prep Type: Total/NA
Prep Batch: 38758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		1.08	0.889		ug/Kg	⊛	83	60 - 140

Lab Sample ID: 590-19064-1 MSD
Matrix: Solid
Analysis Batch: 38772

Client Sample ID: SVE-Soil-Oct23-47Pre1
Prep Type: Total/NA
Prep Batch: 38758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.07	0.941		ug/Kg	⊛	88	60 - 140	6	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-19064-1 DU
Matrix: Solid
Analysis Batch: 38766

Client Sample ID: SVE-Soil-Oct23-47Pre1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.1		10.8		%		7	20
Percent Solids	89.9		89.2		%		0.8	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19064-1

Client Sample ID: SVE-Soil-Oct23-47Pre1

Lab Sample ID: 590-19064-1

Date Collected: 10/23/22 11:17

Matrix: Solid

Date Received: 10/25/22 16:10

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			38766	10/26/22 09:46	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct23-47Pre1

Lab Sample ID: 590-19064-1

Date Collected: 10/23/22 11:17

Matrix: Solid

Date Received: 10/25/22 16:10

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			10.00 g	2 mL	38758	10/26/22 08:21	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 11:20	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct23-47Pre2

Lab Sample ID: 590-19064-2

Date Collected: 10/23/22 11:22

Matrix: Solid

Date Received: 10/25/22 16:10

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			38766	10/26/22 09:46	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct23-47Pre2

Lab Sample ID: 590-19064-2

Date Collected: 10/23/22 11:22

Matrix: Solid

Date Received: 10/25/22 16:10

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.27 g	2 mL	38758	10/26/22 08:21	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 12:09	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct23-47Pre3

Lab Sample ID: 590-19064-3

Date Collected: 10/23/22 11:27

Matrix: Solid

Date Received: 10/25/22 16:10

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			38766	10/26/22 09:46	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct23-47Pre3

Lab Sample ID: 590-19064-3

Date Collected: 10/23/22 11:27

Matrix: Solid

Date Received: 10/25/22 16:10

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			10.57 g	2 mL	38758	10/26/22 08:21	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 12:25	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct23-47Pre4

Lab Sample ID: 590-19064-4

Date Collected: 10/23/22 13:33

Matrix: Solid

Date Received: 10/25/22 16:10

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			38766	10/26/22 09:46	M1V	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19064-1

Client Sample ID: SVE-Soil-Oct23-47Pre4

Lab Sample ID: 590-19064-4

Date Collected: 10/23/22 13:33

Matrix: Solid

Date Received: 10/25/22 16:10

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			10.47 g	2 mL	38758	10/26/22 08:21	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 12:42	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-19064-5

Date Collected: 10/23/22 00:00

Matrix: Solid

Date Received: 10/25/22 16:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.16 g	2 mL	38758	10/26/22 08:21	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 12:58	NMI	EET SPK

Laboratory References:

EET 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: 590-19064-1

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: 590-19064-1

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

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

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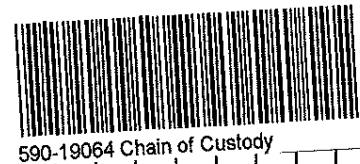
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11922 East 1st Ave
 Spokane WA 99206
 Phone (509) 924-9200 Phone (509) 924-9290

Chain of Custody Record

eurofins
 Environment Testing
 America

Client Information		Sampler: Jered Newcomb, JAN / Jake Allen		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:		Analysis Requested						Job #:									
Address: 835 N Post St. Sta. 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 #: 59002378 10391653		Other:															
Site: Warden WA		SSOW#:																	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=AU)		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-Oct-46Pre1 SVE-Soil-Oct 23-47 Pre1		10/23/2022		11:17		G S		S		N N X						1			
SVE-Soil-Oct-46Pre2 SVE-Soil-Oct 23-47 Pre2		10/23/2022		11:22		G S		S		N N X						1			
SVE-Soil-Oct-46Pre3 SVE-Soil-Oct 23-47 Pre3		10/23/2022		11:27		G S		S		N N X						1			
SVE-Soil-Oct-46Pre4 SVE-Soil-Oct 23-47 Pre4		10/23/2022		11:33		G S		S		N N X						1			
SVE-Soil-Oct-46DUP		10/ /2022				G S		S		N N X						1			
Trip Blank								S		N N X						1			
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Solvent <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: Jake Allen		Date/Time: 10/25/22 13:55		Company: Gibby Mear		Received by: [Signature]		Date/Time: 10/25/22 13:55		Company: HDR									
Relinquished by: [Signature]		Date/Time: 10/25/22 16:10		Company: HDR		Received by: [Signature]		Date/Time: 10/25/22 16:10		Company: Ectoro									
Relinquished by: [Signature]		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: 2.3 3.4 12.05				10/26/2022							



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Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19064-1

Login Number: 19064

List Number: 1

Creator: Fettig, Riley

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	



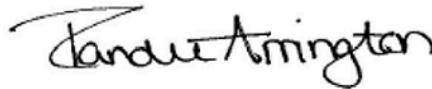
ANALYTICAL REPORT

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

Laboratory Job ID: 590-19065-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
10/26/2022 6:13:49 PM

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

LINKS

Review your project
results through



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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: 590-19065-1

Job ID: 590-19065-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/25/2022 4:10 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 3.4° 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: 590-19065-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19065-1	SVE-Soil-Oct25-48Pre1	Solid	10/25/22 14:15	10/25/22 16:10
590-19065-2	SVE-Soil-Oct25-48Pre2	Solid	10/25/22 14:17	10/25/22 16:10
590-19065-3	SVE-Soil-Oct25-48Pre3	Solid	10/25/22 14:19	10/25/22 16:10
590-19065-4	SVE-Soil-Oct25-48Pre4	Solid	10/25/22 14:21	10/25/22 16:10
590-19065-5	Trip Blank	Solid	10/25/22 00:00	10/25/22 16:10

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19065-1

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: 590-19065-1

Client Sample ID: SVE-Soil-Oct25-48Pre1
Date Collected: 10/25/22 14:15
Date Received: 10/25/22 16:10

Lab Sample ID: 590-19065-1
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.7		0.01	0.01	%			10/26/22 09:46	1
Percent Solids (EPA Moisture)	90.3		0.01	0.01	%			10/26/22 09:46	1

Client Sample ID: SVE-Soil-Oct25-48Pre1
Date Collected: 10/25/22 14:15
Date Received: 10/25/22 16:10

Lab Sample ID: 590-19065-1
Matrix: Solid
Percent Solids: 90.3

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	10/26/22 08:21	10/26/22 13:14	1

Client Sample ID: SVE-Soil-Oct25-48Pre2
Date Collected: 10/25/22 14:17
Date Received: 10/25/22 16:10

Lab Sample ID: 590-19065-2
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.4		0.01	0.01	%			10/26/22 09:46	1
Percent Solids (EPA Moisture)	90.6		0.01	0.01	%			10/26/22 09:46	1

Client Sample ID: SVE-Soil-Oct25-48Pre2
Date Collected: 10/25/22 14:17
Date Received: 10/25/22 16:10

Lab Sample ID: 590-19065-2
Matrix: Solid
Percent Solids: 90.6

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	10/26/22 08:21	10/26/22 13:55	1

Client Sample ID: SVE-Soil-Oct25-48Pre3
Date Collected: 10/25/22 14:19
Date Received: 10/25/22 16:10

Lab Sample ID: 590-19065-3
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.6		0.01	0.01	%			10/26/22 09:46	1
Percent Solids (EPA Moisture)	89.4		0.01	0.01	%			10/26/22 09:46	1

Client Sample ID: SVE-Soil-Oct25-48Pre3
Date Collected: 10/25/22 14:19
Date Received: 10/25/22 16:10

Lab Sample ID: 590-19065-3
Matrix: Solid
Percent Solids: 89.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	10/26/22 08:21	10/26/22 14:11	1

Client Sample ID: SVE-Soil-Oct25-48Pre4
Date Collected: 10/25/22 14:21
Date Received: 10/25/22 16:10

Lab Sample ID: 590-19065-4
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.1		0.01	0.01	%			10/26/22 09:46	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19065-1

Client Sample ID: SVE-Soil-Oct25-48Pre4

Lab Sample ID: 590-19065-4

Date Collected: 10/25/22 14:21

Matrix: Solid

Date Received: 10/25/22 16:10

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	89.9		0.01	0.01	%			10/26/22 09:46	1

Client Sample ID: SVE-Soil-Oct25-48Pre4

Lab Sample ID: 590-19065-4

Date Collected: 10/25/22 14:21

Matrix: Solid

Date Received: 10/25/22 16:10

Percent Solids: 89.9

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	10/26/22 08:21	10/26/22 14:27	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-19065-5

Date Collected: 10/25/22 00:00

Matrix: Solid

Date Received: 10/25/22 16:10

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.048	0.033	ug/Kg		10/26/22 08:21	10/26/22 14:43	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19065-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38758/2-A
Matrix: Solid
Analysis Batch: 38772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/26/22 08:21	10/26/22 10:48	1

Lab Sample ID: LCS 590-38758/3-A
Matrix: Solid
Analysis Batch: 38772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38758

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 Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19065-1

Client Sample ID: SVE-Soil-Oct25-48Pre1

Lab Sample ID: 590-19065-1

Date Collected: 10/25/22 14:15

Matrix: Solid

Date Received: 10/25/22 16:10

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			38766	10/26/22 09:46	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct25-48Pre1

Lab Sample ID: 590-19065-1

Date Collected: 10/25/22 14:15

Matrix: Solid

Date Received: 10/25/22 16:10

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			10.14 g	2 mL	38758	10/26/22 08:21	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 13:14	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct25-48Pre2

Lab Sample ID: 590-19065-2

Date Collected: 10/25/22 14:17

Matrix: Solid

Date Received: 10/25/22 16:10

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			38766	10/26/22 09:46	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct25-48Pre2

Lab Sample ID: 590-19065-2

Date Collected: 10/25/22 14:17

Matrix: Solid

Date Received: 10/25/22 16:10

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			10.18 g	2 mL	38758	10/26/22 08:21	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 13:55	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct25-48Pre3

Lab Sample ID: 590-19065-3

Date Collected: 10/25/22 14:19

Matrix: Solid

Date Received: 10/25/22 16:10

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			38766	10/26/22 09:46	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct25-48Pre3

Lab Sample ID: 590-19065-3

Date Collected: 10/25/22 14:19

Matrix: Solid

Date Received: 10/25/22 16:10

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			10.23 g	2 mL	38758	10/26/22 08:21	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 14:11	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct25-48Pre4

Lab Sample ID: 590-19065-4

Date Collected: 10/25/22 14:21

Matrix: Solid

Date Received: 10/25/22 16:10

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			38766	10/26/22 09:46	M1V	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19065-1

Client Sample ID: SVE-Soil-Oct25-48Pre4

Lab Sample ID: 590-19065-4

Date Collected: 10/25/22 14:21

Matrix: Solid

Date Received: 10/25/22 16:10

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			10.47 g	2 mL	38758	10/26/22 08:21	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 14:27	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-19065-5

Date Collected: 10/25/22 00:00

Matrix: Solid

Date Received: 10/25/22 16:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.48 g	2 mL	38758	10/26/22 08:21	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 14:43	NMI	EET SPK

Laboratory References:

EET 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: 590-19065-1

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: 590-19065-1

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

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



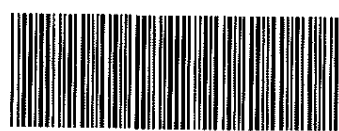
Chain of Custody Record

Client Information		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:	Analysis Requested			Job #:
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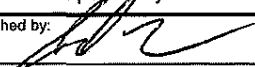
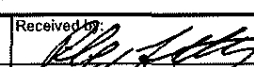
Address: 835 N Post St. Ste. 101	Due Date Requested:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 EDB	Total Number of Containers
City: Spokane	TAT Requested (days): 24 hour				
State, Zip: WA, 99202	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Phone: 509-899-4371	PO #: Purchase Order Requested				
Email: jered.newcomb@hdrinc.com	WO #:				
Project Name: Simplot Warden	Project #: 10331653				
Site: Warden WA	SSOW#:				

Preservation Codes	
A HCL	M Hexane
B NaOH	N None
C Zn Acetate	O AsNaO2
D Nitric Acid	P Na2O4S
E NaHSO4	Q Na2SO3
F MeOH	R Na2S2O3
G Amchlor	S H2SO4
H Ascorbic Acid	T TSP Dodecahydrate
I Ice	U Acetone
J DI Water	V MCAA
K EDTA	W pH 4-5
L EDA	Z other (specify)
Other:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)	8011 EDB	Total Number of Containers	Special Instructions/Note:
					Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 EDB				
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N	<input checked="" type="checkbox"/>		1	
SVE-Soil-Oct 25 -48Pre1	10/25/2022	1415	G	S	N	N	X	<input checked="" type="checkbox"/>		1	
SVE-Soil-Oct 25 -48Pre2	10/25/2022	1417	G	S	N	N	X	<input checked="" type="checkbox"/>		1	
SVE-Soil-Oct 25 -48Pre3	10/25/2022	1419	G	S	N	N	X	<input checked="" type="checkbox"/>		1	
SVE-Soil-Oct 25 -48Pre4	10/25/2022	1421	G	S	N	N	X	<input checked="" type="checkbox"/>		1	
Trip Blank				S	N	N	X	<input checked="" type="checkbox"/>		1	
 590-19065 Chain of Custody											

Possible Hazard Identification <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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <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: 	Date/Time: 10/25/22 18:10	Company: HDR	Received by: 	Date/Time: 10/25/22 10:10	Company: ECH
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"/>	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 52 74 mark
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Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19065-1

Login Number: 19065

List Number: 1

Creator: Fettig, Riley

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	





Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 590-19120-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb

Authorized for release by:
10/31/2022 3:47:09 PM

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

LINKS

Review your project
results through



Have a Question?



Visit us at:

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: 590-19120-1

Job ID: 590-19120-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/28/2022 12:15 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 4.0° 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: 590-19120-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19120-1	SVE-Soil-Oct28-49Pre1	Solid	10/28/22 10:05	10/28/22 12:15
590-19120-2	SVE-Soil-Oct28-49Pre2	Solid	10/28/22 10:09	10/28/22 12:15
590-19120-3	SVE-Soil-Oct28-49Pre3	Solid	10/28/22 10:13	10/28/22 12:15
590-19120-4	SVE-Soil-Oct28-49Pre4	Solid	10/28/22 10:16	10/28/22 12:15
590-19120-5	SVE-Soil-Oct28-49DUP	Solid	10/28/22 12:00	10/28/22 12:15
590-19120-6	Trip Blank	Solid	10/28/22 00:00	10/28/22 12:15

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19120-1

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: 590-19120-1

Client Sample ID: SVE-Soil-Oct28-49Pre1
Date Collected: 10/28/22 10:05
Date Received: 10/28/22 12:15

Lab Sample ID: 590-19120-1
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.2		0.01	0.01	%			10/28/22 14:53	1
Percent Solids (EPA Moisture)	89.8		0.01	0.01	%			10/28/22 14:53	1

Client Sample ID: SVE-Soil-Oct28-49Pre1
Date Collected: 10/28/22 10:05
Date Received: 10/28/22 12:15

Lab Sample ID: 590-19120-1
Matrix: Solid
Percent Solids: 89.8

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	☼	10/31/22 09:41	10/31/22 11:56	1

Client Sample ID: SVE-Soil-Oct28-49Pre2
Date Collected: 10/28/22 10:09
Date Received: 10/28/22 12:15

Lab Sample ID: 590-19120-2
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.7		0.01	0.01	%			10/28/22 14:53	1
Percent Solids (EPA Moisture)	90.3		0.01	0.01	%			10/28/22 14:53	1

Client Sample ID: SVE-Soil-Oct28-49Pre2
Date Collected: 10/28/22 10:09
Date Received: 10/28/22 12:15

Lab Sample ID: 590-19120-2
Matrix: Solid
Percent Solids: 90.3

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	10/31/22 09:41	10/31/22 12:44	1

Client Sample ID: SVE-Soil-Oct28-49Pre3
Date Collected: 10/28/22 10:13
Date Received: 10/28/22 12:15

Lab Sample ID: 590-19120-3
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.4		0.01	0.01	%			10/28/22 14:53	1
Percent Solids (EPA Moisture)	92.6		0.01	0.01	%			10/28/22 14:53	1

Client Sample ID: SVE-Soil-Oct28-49Pre3
Date Collected: 10/28/22 10:13
Date Received: 10/28/22 12:15

Lab Sample ID: 590-19120-3
Matrix: Solid
Percent Solids: 92.6

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	10/31/22 09:41	10/31/22 13:00	1

Client Sample ID: SVE-Soil-Oct28-49Pre4
Date Collected: 10/28/22 10:16
Date Received: 10/28/22 12:15

Lab Sample ID: 590-19120-4
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.3		0.01	0.01	%			10/28/22 14:53	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19120-1

Client Sample ID: SVE-Soil-Oct28-49Pre4

Lab Sample ID: 590-19120-4

Date Collected: 10/28/22 10:16

Matrix: Solid

Date Received: 10/28/22 12:15

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	91.7		0.01	0.01	%			10/28/22 14:53	1

Client Sample ID: SVE-Soil-Oct28-49Pre4

Lab Sample ID: 590-19120-4

Date Collected: 10/28/22 10:16

Matrix: Solid

Date Received: 10/28/22 12:15

Percent Solids: 91.7

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	10/31/22 09:41	10/31/22 13:16	1

Client Sample ID: SVE-Soil-Oct28-49DUP

Lab Sample ID: 590-19120-5

Date Collected: 10/28/22 12:00

Matrix: Solid

Date Received: 10/28/22 12:15

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.8		0.01	0.01	%			10/28/22 14:53	1
Percent Solids (EPA Moisture)	90.2		0.01	0.01	%			10/28/22 14:53	1

Client Sample ID: SVE-Soil-Oct28-49DUP

Lab Sample ID: 590-19120-5

Date Collected: 10/28/22 12:00

Matrix: Solid

Date Received: 10/28/22 12:15

Percent Solids: 90.2

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	10/31/22 09:41	10/31/22 13:32	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-19120-6

Date Collected: 10/28/22 00:00

Matrix: Solid

Date Received: 10/28/22 12:15

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.049	0.035	ug/Kg		10/31/22 09:43	10/31/22 13:48	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19120-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38834/2-A
Matrix: Solid
Analysis Batch: 38846

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/31/22 09:41	10/31/22 11:24	1

Lab Sample ID: LCS 590-38834/3-A
Matrix: Solid
Analysis Batch: 38846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.23		ug/Kg		123	60 - 140

Lab Sample ID: 590-19120-1 MS
Matrix: Solid
Analysis Batch: 38846

Client Sample ID: SVE-Soil-Oct28-49Pre1
Prep Type: Total/NA
Prep Batch: 38834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		1.11	0.962		ug/Kg	⊛	87	60 - 140

Lab Sample ID: 590-19120-1 MSD
Matrix: Solid
Analysis Batch: 38846

Client Sample ID: SVE-Soil-Oct28-49Pre1
Prep Type: Total/NA
Prep Batch: 38834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.11	1.01		ug/Kg	⊛	91	60 - 140	5	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-19120-5 DU
Matrix: Solid
Analysis Batch: 38829

Client Sample ID: SVE-Soil-Oct28-49DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.8		9.7		%		2	20
Percent Solids	90.2		90.3		%		0.2	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19120-1

Client Sample ID: SVE-Soil-Oct28-49Pre1

Lab Sample ID: 590-19120-1

Date Collected: 10/28/22 10:05

Matrix: Solid

Date Received: 10/28/22 12:15

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			38829	10/28/22 14:53	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct28-49Pre1

Lab Sample ID: 590-19120-1

Date Collected: 10/28/22 10:05

Matrix: Solid

Date Received: 10/28/22 12:15

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			10.06 g	2 mL	38834	10/31/22 09:41	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38846	10/31/22 11:56	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct28-49Pre2

Lab Sample ID: 590-19120-2

Date Collected: 10/28/22 10:09

Matrix: Solid

Date Received: 10/28/22 12:15

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			38829	10/28/22 14:53	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct28-49Pre2

Lab Sample ID: 590-19120-2

Date Collected: 10/28/22 10:09

Matrix: Solid

Date Received: 10/28/22 12:15

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			10.12 g	2 mL	38834	10/31/22 09:41	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38846	10/31/22 12:44	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct28-49Pre3

Lab Sample ID: 590-19120-3

Date Collected: 10/28/22 10:13

Matrix: Solid

Date Received: 10/28/22 12:15

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			38829	10/28/22 14:53	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct28-49Pre3

Lab Sample ID: 590-19120-3

Date Collected: 10/28/22 10:13

Matrix: Solid

Date Received: 10/28/22 12:15

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.14 g	2 mL	38834	10/31/22 09:41	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38846	10/31/22 13:00	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct28-49Pre4

Lab Sample ID: 590-19120-4

Date Collected: 10/28/22 10:16

Matrix: Solid

Date Received: 10/28/22 12:15

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			38829	10/28/22 14:53	M1V	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19120-1

Client Sample ID: SVE-Soil-Oct28-49Pre4

Lab Sample ID: 590-19120-4

Date Collected: 10/28/22 10:16

Matrix: Solid

Date Received: 10/28/22 12:15

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.33 g	2 mL	38834	10/31/22 09:41	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38846	10/31/22 13:16	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct28-49DUP

Lab Sample ID: 590-19120-5

Date Collected: 10/28/22 12:00

Matrix: Solid

Date Received: 10/28/22 12:15

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			38829	10/28/22 14:53	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct28-49DUP

Lab Sample ID: 590-19120-5

Date Collected: 10/28/22 12:00

Matrix: Solid

Date Received: 10/28/22 12:15

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			10.14 g	2 mL	38834	10/31/22 09:41	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38846	10/31/22 13:32	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-19120-6

Date Collected: 10/28/22 00:00

Matrix: Solid

Date Received: 10/28/22 12:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.11 g	2 mL	38834	10/31/22 09:43	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38846	10/31/22 13:48	NMI	EET SPK

Laboratory References:

EET 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: 590-19120-1

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: 590-19120-1

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

Protocol References:

EPA = US Environmental Protection Agency

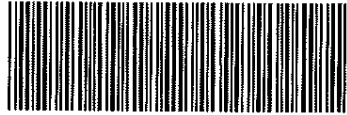
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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



Chain of Custody Record

Client Information		Sampler: Jered Newcomb, JAN / <i>Don el Bonds DMB</i>		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:		Analysis Requested 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:					
Address: 835 N Post St. Ste 101		Due Date Requested													
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 #: 10331653		SSOW#:		Project Name: Simplot Warden							
Site: Warden WA															
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)		Special Instructions/Note:	
										N		N			
SVE-Soil-Oct 28-49Pre1		10/28/2022		10 05		G		S		N		N		X	
SVE-Soil-Oct 28-49Pre2		10/28/2022		10 09		G		S		N		N		X	
SVE-Soil-Oct 28-49Pre3		10/28/2022		10 13		G		S		N		N		X	
SVE-Soil-Oct 28-49Pre4		10/28/2022		10 16		G		S		N		N		X	
SVE-Soil-Oct 28-49DUP		10/28/2022		12 00		G		S		N		N		X	
Trip Blank								S		N		N		X	
 590-19120 Chain of Custody															
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> 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: <i>[Signature]</i>				Date/Time: 10/28/22 12 15		Company:		Received by: <i>[Signature]</i>		Date/Time: 10/28/22 12 15		Company: <i>[Signature]</i>			
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.		Page 13 of 14				Cooler Temperature(s) °C and Other Remarks: 37 40				10/31/2022			

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19120-1

Login Number: 19120

List Number: 1

Creator: Fettig, Riley

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	



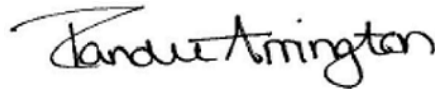
ANALYTICAL REPORT

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

Laboratory Job ID: 590-19133-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb



Authorized for release by:
11/2/2022 2:30:39 PM

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

LINKS

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results through



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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: 590-19133-1

Job ID: 590-19133-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 11/1/2022 3:00 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 4.6° 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: 590-19133-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19133-1	SVE-Soil-Oct30-50Pre1	Solid	10/30/22 11:47	11/01/22 15:00
590-19133-2	SVE-Soil-Oct30-50Pre2	Solid	10/30/22 11:50	11/01/22 15:00
590-19133-3	SVE-Soil-Oct30-50Pre3	Solid	10/30/22 11:51	11/01/22 15:00
590-19133-4	SVE-Soil-Oct30-50Pre4	Solid	10/30/22 11:55	11/01/22 15:00
590-19133-5	Trip Blank	Solid	10/30/22 00:00	11/01/22 15:00

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19133-1

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: 590-19133-1

Client Sample ID: SVE-Soil-Oct30-50Pre1

Lab Sample ID: 590-19133-1

Date Collected: 10/30/22 11:47

Matrix: Solid

Date Received: 11/01/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.4		0.01	0.01	%			11/01/22 15:25	1
Percent Solids (EPA Moisture)	91.6		0.01	0.01	%			11/01/22 15:25	1

Client Sample ID: SVE-Soil-Oct30-50Pre1

Lab Sample ID: 590-19133-1

Date Collected: 10/30/22 11:47

Matrix: Solid

Date Received: 11/01/22 15:00

Percent Solids: 91.6

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.037	ug/Kg	☼	11/01/22 15:41	11/01/22 20:04	1

Client Sample ID: SVE-Soil-Oct30-50Pre2

Lab Sample ID: 590-19133-2

Date Collected: 10/30/22 11:50

Matrix: Solid

Date Received: 11/01/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.1		0.01	0.01	%			11/01/22 15:25	1
Percent Solids (EPA Moisture)	89.9		0.01	0.01	%			11/01/22 15:25	1

Client Sample ID: SVE-Soil-Oct30-50Pre2

Lab Sample ID: 590-19133-2

Date Collected: 10/30/22 11:50

Matrix: Solid

Date Received: 11/01/22 15:00

Percent Solids: 89.9

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.036	ug/Kg	☼	11/01/22 15:41	11/01/22 20:20	1

Client Sample ID: SVE-Soil-Oct30-50Pre3

Lab Sample ID: 590-19133-3

Date Collected: 10/30/22 11:51

Matrix: Solid

Date Received: 11/01/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.5		0.01	0.01	%			11/01/22 15:25	1
Percent Solids (EPA Moisture)	89.5		0.01	0.01	%			11/01/22 15:25	1

Client Sample ID: SVE-Soil-Oct30-50Pre3

Lab Sample ID: 590-19133-3

Date Collected: 10/30/22 11:51

Matrix: Solid

Date Received: 11/01/22 15:00

Percent Solids: 89.5

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.036	ug/Kg	☼	11/01/22 15:41	11/01/22 20:36	1

Client Sample ID: SVE-Soil-Oct30-50Pre4

Lab Sample ID: 590-19133-4

Date Collected: 10/30/22 11:55

Matrix: Solid

Date Received: 11/01/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.0		0.01	0.01	%			11/01/22 15:25	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19133-1

Client Sample ID: SVE-Soil-Oct30-50Pre4

Lab Sample ID: 590-19133-4

Date Collected: 10/30/22 11:55

Matrix: Solid

Date Received: 11/01/22 15:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	89.0		0.01	0.01	%			11/01/22 15:25	1

Client Sample ID: SVE-Soil-Oct30-50Pre4

Lab Sample ID: 590-19133-4

Date Collected: 10/30/22 11:55

Matrix: Solid

Date Received: 11/01/22 15:00

Percent Solids: 89.0

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056	0.039	ug/Kg	☼	11/01/22 15:41	11/01/22 20:52	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-19133-5

Date Collected: 10/30/22 00:00

Matrix: Solid

Date Received: 11/01/22 15:00

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.048	0.033	ug/Kg		11/01/22 15:41	11/01/22 21:08	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19133-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38868/3-A
Matrix: Solid
Analysis Batch: 38867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		11/01/22 14:55	11/01/22 16:51	1

Lab Sample ID: LCS 590-38868/6-A
Matrix: Solid
Analysis Batch: 38867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	0.995		ug/Kg		100	60 - 140

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19133-1

Client Sample ID: SVE-Soil-Oct30-50Pre1

Lab Sample ID: 590-19133-1

Date Collected: 10/30/22 11:47

Matrix: Solid

Date Received: 11/01/22 15:00

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			38869	11/01/22 15:25	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct30-50Pre1

Lab Sample ID: 590-19133-1

Date Collected: 10/30/22 11:47

Matrix: Solid

Date Received: 11/01/22 15:00

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.19 g	2 mL	38868	11/01/22 15:41	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38867	11/01/22 20:04	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct30-50Pre2

Lab Sample ID: 590-19133-2

Date Collected: 10/30/22 11:50

Matrix: Solid

Date Received: 11/01/22 15:00

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			38869	11/01/22 15:25	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct30-50Pre2

Lab Sample ID: 590-19133-2

Date Collected: 10/30/22 11:50

Matrix: Solid

Date Received: 11/01/22 15:00

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			10.79 g	2 mL	38868	11/01/22 15:41	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38867	11/01/22 20:20	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct30-50Pre3

Lab Sample ID: 590-19133-3

Date Collected: 10/30/22 11:51

Matrix: Solid

Date Received: 11/01/22 15:00

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			38869	11/01/22 15:25	M1V	EET SPK

Client Sample ID: SVE-Soil-Oct30-50Pre3

Lab Sample ID: 590-19133-3

Date Collected: 10/30/22 11:51

Matrix: Solid

Date Received: 11/01/22 15:00

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.72 g	2 mL	38868	11/01/22 15:41	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38867	11/01/22 20:36	NMI	EET SPK

Client Sample ID: SVE-Soil-Oct30-50Pre4

Lab Sample ID: 590-19133-4

Date Collected: 10/30/22 11:55

Matrix: Solid

Date Received: 11/01/22 15:00

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			38869	11/01/22 15:25	M1V	EET SPK

Eurofins Spokane

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19133-1

Client Sample ID: SVE-Soil-Oct30-50Pre4

Lab Sample ID: 590-19133-4

Date Collected: 10/30/22 11:55

Matrix: Solid

Date Received: 11/01/22 15:00

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.10 g	2 mL	38868	11/01/22 15:41	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38867	11/01/22 20:52	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-19133-5

Date Collected: 10/30/22 00:00

Matrix: Solid

Date Received: 11/01/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.49 g	2 mL	38868	11/01/22 15:41	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38867	11/01/22 21:08	NMI	EET SPK

Laboratory References:

EET 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: 590-19133-1

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: 590-19133-1

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

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



Chain of Custody Record

Client Information		Sampler: Jered Newcomb, JAN <i>JAKE ALLEN</i>		Lab PM: Arrington Randee E		Carrier Tracking No(s):		COC No:									
Client Contact: Jered Newcomb		Phone: 509-899-4371		E-Mail: Randee.Arrington@et.eurolfinsus.com		State of Origin: WA		Page: Page 1 of 1									
Company: HDR Inc		PWSID:		Analysis Requested						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		Preservation Codes.					
City: Spokane		TAT Requested (days): 24 hour										A HCL		M Hexane			
State, Zip: WA, 99202		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No										B NaOH		N None			
Phone: 509-899-4371		PO #: Purchase Order Requested										C Zn Acetate		O AsNaO2			
Email: jered.newcomb@hdrinc.com		WO #:		D Nitric Acid		P Na2O4S		E NaHSO4		Q Na2SO3		F MeOH		R Na2S2O3			
Project Name: Simplot Warden		Project #: 10331653		H Ascobic Acid		S H2SO4		I Ice		T TSP Dodecahydrate		J DI Water		U Acetone			
Site: Warden WA		SSOW#:		K EDTA		W pH 4-5		L EDA		Z other (specify)		Other:					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8011 EDB		Special Instructions/Note	
																Preservation Code: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> N	
SVE-Soil-Oct 30-50Pre1		10/30/2022		11:47		G		S		N		N		X			
SVE-Soil-Oct 30-50Pre2		10/30/2022		11:50		G		S		N		N		X			
SVE-Soil-Oct 30-50Pre3		10/30/2022		11:51		G		S		N		N		X			
SVE-Soil-Oct 30-50Pre4		10/30/2022		11:55		G		S		N		N		X			
Trip Blank								S		N		N		X			



Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> 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: <i>JAKE ALLEN</i>		Date/Time: 1:00 11/1/22		Company: Gray Mar		Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: 11/1/22 1500		Company: HDR		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by:	

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19133-1

Login Number: 19133

List Number: 1

Creator: Vaughan, Madison 1

List Source: Eurofins Spokane

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



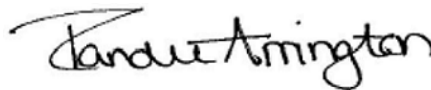
ANALYTICAL REPORT

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

Laboratory Job ID: 590-18870-1
Client Project/Site: Simplot Warden
Revision: 2

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

Attn: Jered Newcomb



Authorized for release by:
10/13/2022 8:33:01 AM

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

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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: 590-18870-1

Job ID: 590-18870-1

Laboratory: Eurofins Spokane

Narrative

Revision

The report being provided is a revision of the original report sent on 10/11/2022. The report (revision 2) is being revised due to: A revised COC has been added to the final report to notate samples were composites and not grab samples..

Report revision history

Revision 1 - 10/13/2022 - Reason - The following client sample ID was revised due to login error: 590-18870-5..

Receipt

The samples were received on 10/5/2022 2:00 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

Method 8011: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 590-38471 and analytical batch 590-38472 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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: 590-18870-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18870-1	IDW-Drum-1-10052022	Solid	10/05/22 11:17	10/05/22 14:00
590-18870-2	IDW-Drum-2-10052022	Solid	10/05/22 11:19	10/05/22 14:00
590-18870-3	IDW-Drum-3-10052022	Solid	10/05/22 11:21	10/05/22 14:00
590-18870-4	IDW-Drum-4-10052022	Solid	10/05/22 11:23	10/05/22 14:00
590-18870-5	IDW-Drum-5-10052022	Solid	10/05/22 11:26	10/05/22 14:00
590-18870-6	Trip Blank	Solid	10/05/22 11:00	10/05/22 14:00

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18870-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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: 590-18870-1

Client Sample ID: IDW-Drum-1-10052022

Lab Sample ID: 590-18870-1

Date Collected: 10/05/22 11:17

Matrix: Solid

Date Received: 10/05/22 14:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.2		0.01	0.01	%			10/10/22 09:14	1
Percent Solids (EPA Moisture)	89.8		0.01	0.01	%			10/10/22 09:14	1

Client Sample ID: IDW-Drum-1-10052022

Lab Sample ID: 590-18870-1

Date Collected: 10/05/22 11:17

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 89.8

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	F1	0.055	0.039	ug/Kg	☼	10/10/22 08:02	10/10/22 10:15	1

Client Sample ID: IDW-Drum-2-10052022

Lab Sample ID: 590-18870-2

Date Collected: 10/05/22 11:19

Matrix: Solid

Date Received: 10/05/22 14:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.2		0.01	0.01	%			10/10/22 09:14	1
Percent Solids (EPA Moisture)	84.8		0.01	0.01	%			10/10/22 09:14	1

Client Sample ID: IDW-Drum-2-10052022

Lab Sample ID: 590-18870-2

Date Collected: 10/05/22 11:19

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 84.8

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.057	0.040	ug/Kg	☼	10/10/22 08:02	10/10/22 11:02	1

Client Sample ID: IDW-Drum-3-10052022

Lab Sample ID: 590-18870-3

Date Collected: 10/05/22 11:21

Matrix: Solid

Date Received: 10/05/22 14:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.4		0.01	0.01	%			10/10/22 09:14	1
Percent Solids (EPA Moisture)	87.6		0.01	0.01	%			10/10/22 09:14	1

Client Sample ID: IDW-Drum-3-10052022

Lab Sample ID: 590-18870-3

Date Collected: 10/05/22 11:21

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 87.6

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	☼	10/10/22 08:02	10/10/22 11:18	1

Client Sample ID: IDW-Drum-4-10052022

Lab Sample ID: 590-18870-4

Date Collected: 10/05/22 11:23

Matrix: Solid

Date Received: 10/05/22 14:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.6		0.01	0.01	%			10/10/22 09:14	1

Eurofins Spokane

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18870-1

Client Sample ID: IDW-Drum-4-10052022

Lab Sample ID: 590-18870-4

Date Collected: 10/05/22 11:23

Matrix: Solid

Date Received: 10/05/22 14:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	94.4		0.01	0.01	%			10/10/22 09:14	1

Client Sample ID: IDW-Drum-4-10052022

Lab Sample ID: 590-18870-4

Date Collected: 10/05/22 11:23

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 94.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.036	ug/Kg	☼	10/10/22 08:02	10/10/22 11:34	1

Client Sample ID: IDW-Drum-5-10052022

Lab Sample ID: 590-18870-5

Date Collected: 10/05/22 11:26

Matrix: Solid

Date Received: 10/05/22 14:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.8		0.01	0.01	%			10/10/22 09:14	1
Percent Solids (EPA Moisture)	94.2		0.01	0.01	%			10/10/22 09:14	1

Client Sample ID: IDW-Drum-5-10052022

Lab Sample ID: 590-18870-5

Date Collected: 10/05/22 11:26

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 94.2

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.051	0.036	ug/Kg	☼	10/10/22 08:02	10/10/22 11:50	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-18870-6

Date Collected: 10/05/22 11:00

Matrix: Solid

Date Received: 10/05/22 14:00

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.049	0.034	ug/Kg		10/10/22 08:02	10/10/22 12:06	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18870-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38471/2-A
Matrix: Solid
Analysis Batch: 38472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		10/10/22 08:02	10/10/22 09:43	1

Lab Sample ID: LCS 590-38471/3-A
Matrix: Solid
Analysis Batch: 38472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	0.896		ug/Kg		90	60 - 140

Lab Sample ID: 590-18870-1 MS
Matrix: Solid
Analysis Batch: 38472

Client Sample ID: IDW-Drum-1-10052022
Prep Type: Total/NA
Prep Batch: 38471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND	F1	1.11	0.625	F1	ug/Kg	⊛	56	60 - 140

Lab Sample ID: 590-18870-1 MSD
Matrix: Solid
Analysis Batch: 38472

Client Sample ID: IDW-Drum-1-10052022
Prep Type: Total/NA
Prep Batch: 38471

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND	F1	1.08	0.706		ug/Kg	⊛	66	60 - 140	12	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18870-1

Client Sample ID: IDW-Drum-1-10052022

Lab Sample ID: 590-18870-1

Date Collected: 10/05/22 11:17

Matrix: Solid

Date Received: 10/05/22 14:00

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			38475	10/10/22 09:14	NMI	EET SPK

Client Sample ID: IDW-Drum-1-10052022

Lab Sample ID: 590-18870-1

Date Collected: 10/05/22 11:17

Matrix: Solid

Date Received: 10/05/22 14:00

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			10.12 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 10:15	NMI	EET SPK

Client Sample ID: IDW-Drum-2-10052022

Lab Sample ID: 590-18870-2

Date Collected: 10/05/22 11:19

Matrix: Solid

Date Received: 10/05/22 14:00

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			38475	10/10/22 09:14	NMI	EET SPK

Client Sample ID: IDW-Drum-2-10052022

Lab Sample ID: 590-18870-2

Date Collected: 10/05/22 11:19

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.37 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 11:02	NMI	EET SPK

Client Sample ID: IDW-Drum-3-10052022

Lab Sample ID: 590-18870-3

Date Collected: 10/05/22 11:21

Matrix: Solid

Date Received: 10/05/22 14:00

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			38475	10/10/22 09:14	NMI	EET SPK

Client Sample ID: IDW-Drum-3-10052022

Lab Sample ID: 590-18870-3

Date Collected: 10/05/22 11:21

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.33 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 11:18	NMI	EET SPK

Client Sample ID: IDW-Drum-4-10052022

Lab Sample ID: 590-18870-4

Date Collected: 10/05/22 11:23

Matrix: Solid

Date Received: 10/05/22 14:00

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			38475	10/10/22 09:14	NMI	EET SPK

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Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18870-1

Client Sample ID: IDW-Drum-4-10052022

Lab Sample ID: 590-18870-4

Date Collected: 10/05/22 11:23

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.23 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 11:34	NMI	EET SPK

Client Sample ID: IDW-Drum-5-10052022

Lab Sample ID: 590-18870-5

Date Collected: 10/05/22 11:26

Matrix: Solid

Date Received: 10/05/22 14:00

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			38475	10/10/22 09:14	NMI	EET SPK

Client Sample ID: IDW-Drum-5-10052022

Lab Sample ID: 590-18870-5

Date Collected: 10/05/22 11:26

Matrix: Solid

Date Received: 10/05/22 14:00

Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.40 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 11:50	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-18870-6

Date Collected: 10/05/22 11:00

Matrix: Solid

Date Received: 10/05/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.22 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38472	10/10/22 12:06	NMI	EET SPK

Laboratory References:

EET 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: 590-18870-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Method Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-18870-1

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

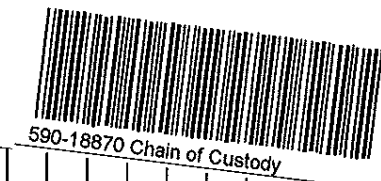
Laboratory References:

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



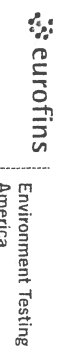
Chain of Custody Record

Client Information			Sampler: Jered Newcomb, JAN			Lab PM: Arrington, Randee E			Carrier Tracking No(s):			COC No: 590-7430-2162.1		
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:			Analysis Requested						Job #:		
Address: 835 N Post St. Ste. 101			Due Date Requested									Preservation Codes		
City: Spokane			TAT Requested (days): <i>24 hour Standard</i>									A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 O 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)		
State, Zip: WA, 99202			Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									Other:		
Phone: 509-899-4371			PO #: Purchase Order Requested			Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8011 EDB			Total Number of Containers					
Email: jered.newcomb@hdrinc.com			WO #:											
Project Name: Simplot Warden			Project #: 59002373			Special Instructions/Note:								
Site: Warden WA			SSOW#:											
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastelol, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 EDB	Total Number of Containers						
Preservation Code:					X	X	N	X						
IOW-Drum-1-10052022	10/5/22	1117	G	S	N	N	X	1						
IOW-Drum-2-10052022	↓	1119	↓	↓	↓	↓	X	1						
IOW-Drum-3-10052022	↓	1121	↓	↓	↓	↓	X	1						
IOW-Drum-4-10052022	↓	1123	↓	↓	↓	↓	X	1						
IOW-Drum-5-10052022	↓	1126	↓	↓	↓	↓	X	1						
Trip Blank	-	-	-	S	N	N	X	1						
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input 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: <i>Jered Newcomb</i>			Date/Time: <i>10/5/22 1400</i>			Company:			Received by: <i>[Signature]</i>			Date/Time: <i>10/4/22 1400</i>		
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:		
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.				Cooler Temperature(s) °C and Other Remarks: <i>2.7c 2.8c Troop 10/13/2022 (Rev. 2)</i>								



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

Chain of Custody Record



Client Information
 Client Contact: Jerred Newcomb
 Company: Jerred Newcomb
 Address: 835 N Post St. Ste. 101
 City: Spokane
 State, Zip: WA, 99202
 Phone: 509-899-4371
 Email: jerred.newcomb@hdrinc.com
 Project Name: Simplot Warden
 Site: Warden WA

Sampler: Jerred Newcomb, JAN
 Phone: 509-899-4371
 Lab Pmt: Arrington, Randee E
 E-Mail: Randee.Arrington@eurofins.com
 Carrier Tracking No(s): WA
 State of Origin: WA
 COC No: 590-7430-2162.1
 Page: 1 of 1
 Job #: 1400

Due Date Requested:
 TAT Requested (days): 24 hours
 Compliance Project: Yes No
 PO #: Purchase Order Requested
 WO #:
 Project #: 59002373
 SSO#:
 Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 - EDB	Total Number of containers	Special Instructions/Note:
TDW-Drum-1-10052022	10/5/22	1117	CEM	S	N	X		1	
TDW-Drum-2-10052022		1114			N	X		1	
TDW-Drum-3-10052022		1121			N	X		1	
TDW-Drum-4-10052022		1123			N	X		1	
TDW-Drum-5-10052022		1126			N	X		1	
Tip Blank				S	N	X		1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Relinquished by:
 Date:
 Method of Shipment:
 Special Instructions/Client Requirements:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Relinquished by: Jerred Newcomb
 Date/Time: 10/5/22 14:06
 Company:
 Relinquished by:
 Date/Time:
 Company:
 Custody Seals Intact:
 Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks: 2.7°C 2.8°C 7900

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-18870-1

Login Number: 18870

List Source: Eurofins Spokane

List Number: 1

Creator: Arrington, Randee E

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	





Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 590-19044-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb

Authorized for release by:
10/27/2022 3:12:50 PM

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

LINKS

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results through



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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: 590-19044-1

Job ID: 590-19044-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 10/21/2022 3:30 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 5.2° C.

GC Semi VOA

Method 8011: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 590-38773 and analytical batch 590-38772 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.

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: 590-19044-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19044-1	IDW-Water-Drum-1-10212022	Water	10/21/22 11:50	10/21/22 15:30
590-19044-2	IDW-Water-Drum-2-10212022	Water	10/21/22 11:55	10/21/22 15:30
590-19044-3	IDW-Water-Drum-3-10212022	Water	10/21/22 12:20	10/21/22 15:30
590-19044-4	IDW-Water-Drum-4-10212022	Water	10/21/22 12:35	10/21/22 15:30
590-19044-5	IDW-Water-Drum-5-10212022	Water	10/21/22 12:45	10/21/22 15:30
590-19044-6	IDW-Water-Drum-6-10212022	Water	10/21/22 13:00	10/21/22 15:30
590-19044-7	Trip Blanks	Water	10/21/22 00:00	10/21/22 15:30

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Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19044-1

Qualifiers

GC Semi VOA

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

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: 590-19044-1

Client Sample ID: IDW-Water-Drum-1-10212022

Lab Sample ID: 590-19044-1

Date Collected: 10/21/22 11:50

Matrix: Water

Date Received: 10/21/22 15:30

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		10/26/22 10:09	10/26/22 18:25	1

Client Sample ID: IDW-Water-Drum-2-10212022

Lab Sample ID: 590-19044-2

Date Collected: 10/21/22 11:55

Matrix: Water

Date Received: 10/21/22 15:30

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		10/26/22 10:09	10/26/22 18:58	1

Client Sample ID: IDW-Water-Drum-3-10212022

Lab Sample ID: 590-19044-3

Date Collected: 10/21/22 12:20

Matrix: Water

Date Received: 10/21/22 15:30

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	0.0039	J	0.010	0.0025	ug/L		10/26/22 10:09	10/26/22 19:14	1

Client Sample ID: IDW-Water-Drum-4-10212022

Lab Sample ID: 590-19044-4

Date Collected: 10/21/22 12:35

Matrix: Water

Date Received: 10/21/22 15:30

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		10/26/22 10:09	10/26/22 19:30	1

Client Sample ID: IDW-Water-Drum-5-10212022

Lab Sample ID: 590-19044-5

Date Collected: 10/21/22 12:45

Matrix: Water

Date Received: 10/21/22 15:30

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		10/26/22 10:09	10/26/22 19:46	1

Client Sample ID: IDW-Water-Drum-6-10212022

Lab Sample ID: 590-19044-6

Date Collected: 10/21/22 13:00

Matrix: Water

Date Received: 10/21/22 15:30

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		10/26/22 10:09	10/26/22 20:03	1

Client Sample ID: Trip Blanks

Lab Sample ID: 590-19044-7

Date Collected: 10/21/22 00:00

Matrix: Water

Date Received: 10/21/22 15:30

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		10/26/22 10:09	10/26/22 20:51	1

Eurofins Spokane

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19044-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38773/1-A
Matrix: Water
Analysis Batch: 38772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		10/26/22 10:09	10/26/22 15:59	1

Lab Sample ID: LCS 590-38773/2-A
Matrix: Water
Analysis Batch: 38772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.125	0.0988		ug/L		79	60 - 140

Lab Sample ID: LCSD 590-38773/3-A
Matrix: Water
Analysis Batch: 38772

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38773

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.125	0.0899		ug/L		72	60 - 140	9	20

Lab Sample ID: 590-19044-6 MS
Matrix: Water
Analysis Batch: 38772

Client Sample ID: IDW-Water-Drum-6-10212022
Prep Type: Total/NA
Prep Batch: 38773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		0.125	0.0990		ug/L		79	60 - 140

Lab Sample ID: 590-19044-6 MSD
Matrix: Water
Analysis Batch: 38772

Client Sample ID: IDW-Water-Drum-6-10212022
Prep Type: Total/NA
Prep Batch: 38773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		0.125	0.0817		ug/L		65	60 - 140	19	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19044-1

Client Sample ID: IDW-Water-Drum-1-10212022

Lab Sample ID: 590-19044-1

Date Collected: 10/21/22 11:50

Matrix: Water

Date Received: 10/21/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			80 mL	2 mL	38773	10/26/22 10:09	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 18:25	NMI	EET SPK

Client Sample ID: IDW-Water-Drum-2-10212022

Lab Sample ID: 590-19044-2

Date Collected: 10/21/22 11:55

Matrix: Water

Date Received: 10/21/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			80 mL	2 mL	38773	10/26/22 10:09	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 18:58	NMI	EET SPK

Client Sample ID: IDW-Water-Drum-3-10212022

Lab Sample ID: 590-19044-3

Date Collected: 10/21/22 12:20

Matrix: Water

Date Received: 10/21/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			80 mL	2 mL	38773	10/26/22 10:09	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 19:14	NMI	EET SPK

Client Sample ID: IDW-Water-Drum-4-10212022

Lab Sample ID: 590-19044-4

Date Collected: 10/21/22 12:35

Matrix: Water

Date Received: 10/21/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			80 mL	2 mL	38773	10/26/22 10:09	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 19:30	NMI	EET SPK

Client Sample ID: IDW-Water-Drum-5-10212022

Lab Sample ID: 590-19044-5

Date Collected: 10/21/22 12:45

Matrix: Water

Date Received: 10/21/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			80 mL	2 mL	38773	10/26/22 10:09	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 19:46	NMI	EET SPK

Client Sample ID: IDW-Water-Drum-6-10212022

Lab Sample ID: 590-19044-6

Date Collected: 10/21/22 13:00

Matrix: Water

Date Received: 10/21/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			80 mL	2 mL	38773	10/26/22 10:09	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 20:03	NMI	EET SPK

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Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19044-1

Client Sample ID: Trip Blanks

Lab Sample ID: 590-19044-7

Date Collected: 10/21/22 00:00

Matrix: Water

Date Received: 10/21/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			80 mL	2 mL	38773	10/26/22 10:09	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38772	10/26/22 20:51	NMI	EET SPK

Laboratory References:

EET 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: 590-19044-1

Laboratory: Eurofins Spokane

The accreditations/certifications listed below are applicable to this report.

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

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Method Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19044-1

Method	Method Description	Protocol	Laboratory
8011	EDB	EPA	EET SPK
8011	Microextraction	SW846	EET 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:

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



Chain of Custody Record

Client Information				Sampler: Jered Newcomb		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:		Page: Page 1 of 1					
Company: HDR Inc				PWSID:		Analysis Requested						Job #:			
Address: 835 N Post St. Ste. 101				Due Date Requested:								Preservation Codes:			
City: Spokane				TAT Requested (days): Standard		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) EPA Method 8011 * EPA Method 8260B VOCs ** EPA Method 8270 Semi-VOCs ** pH **		Total Number of Containers		A HCL M Hexane		B NaOH N None			
State, Zip: WA, 99202				Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						C Zn Acetate O AsNaO2		D Nitric Acid P Na2O4S		E NaHSO4 Q Na2SO3	
Phone: 509-899-4371				PO #: Purchase Order Requested						F MeOH R Na2S2O3		G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate	
Email: jered.newcomb@hdrinc.com				WO #:						I Ice U Acetone		J DI Water V MCAA		K EDTA W pH 4-5	
Project Name: Simplot Warden				Project #: 10331653						L EDA Z other (specify)		Other:			
Site: Warden WA				SSOW#:											
Sample Identification			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)						Special Instructions/Note:			
							Preservation Code:								
IDW-Water-Drum-1-10/21/2022			10/21/2022	1150	G	W	N	Y	X					7	* Report EDB only Full list may need to be reported in future.
IDW-Water-Drum-2-10/21/2022			10/21/2022	1155	G	W	N	N	X					7	
IDW-Water-Drum-3-10/21/2022			10/21/2022	1220	G	W	N	N	X					7	** Place sample analytes on hold
IDW-Water-Drum-4-10/21/2022			10/21/2022	1235	G	W	N	N	X					7	Please advise HDR on hold time expiration dates
IDW-Water-Drum-5-10/21/2022			10/21/2022	1245	G	W	N	N	X					7	
IDW-Water-Drum-6-10/21/2022			10/21/2022	1300	G	W	N	Y	X					7	Perform MS/MSD
Trip Blanks						W	N	N	X					3	
												 590-19044 Chain of Custody			
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Toxic <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested: I II III IV Other (specify)						Special Instructions/QC Requirements									
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:							
Relinquished by: <i>[Signature]</i>				Date/Time: 10/21/22 1535		Company: HDR		Received by: <i>[Signature]</i>		Date/Time: 10/21/22 15:36		Company: ETS SA			
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.						Cooler Temperature(s) °C and Other Remarks: 5.0C Cold 18000 10/27/2022							

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Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19044-1

Login Number: 19044

List Source: Eurofins Spokane

List Number: 1

Creator: Fettig, Riley

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

