

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

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 $0.05 \mu g/L$. 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

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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.pdf IDW Water EDB 10-21-2022 (J19044-1) Lab Report.pdf

CC: Molly Dimick, J.R. Simplot Company



Environment Testing America

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

.....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.

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

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Case Narrative

Client: HDR Inc Job ID: 590-18815-1

Project/Site: Simplot Warden

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 Job ID: 590-18815-1

Project/Site: Simplot Warden

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 Job ID: 590-18815-1

Project/Site: Simplot Warden

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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-extracti

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

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Client Sample Results Client: HDR Inc Job ID: 590-18815-1 Project/Site: Simplot Warden 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 Dil Fac Prepared Analyzed 0.01 0.01 % 10/04/22 08:08 **Percent Moisture** 9.6 0.01 0.01 % 10/04/22 08:08 **Percent Solids** 90.4 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) $\overline{\mathsf{ND}}$ 0.055 0.038 ug/Kg 10/04/22 08:26 10/04/22 10:32 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 Prepared Analyzed Dil Fac 0.01 0.01 % 10/04/22 08:08 **Percent Moisture** 11.2 0.01 % **Percent Solids** 88.8 0.01 10/04/22 08:08 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 Prepared Analyzed Dil Fac 10/04/22 08:26 10/04/22 11:21 1,2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.055 0.039 ug/Kg 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 0.01 0.01 % 10/04/22 08:08 **Percent Moisture** 11.5 **Percent Solids** 88.5 0.01 0.01 % 10/04/22 08:08 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

Client Sample ID: SVE-Soi	il-Oct3-37Pre4			L	ab Sample	ID: 590-18	815-4
1,2-Dibromoethane (EDB)	ND ND	0.056	0.039 ug/Kg	— <u></u>	10/04/22 08:26	10/04/22 11:37	1

Date Collected: 10/03/22 13:05 Matrix: Solid

Date Received: 10/03/22 14:45

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

Eurofins Spokane

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Client Sample Results

Client: HDR Inc Job ID: 590-18815-1

Project/Site: Simplot Warden

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

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

Lab Sample ID: 590-18815-4 Date Collected: 10/03/22 13:05

Date Received: 10/03/22 14:45

Method: 8011 - EDB Analyte Result Qualifier RL **MDL** Unit 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

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 Dil Fac Prepared Analyzed **Percent Moisture** 11.4 0.01 0.01 % 10/04/22 08:08 10/04/22 08:08 **Percent Solids** 88.6 0.01 0.01 %

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 Result Qualifier **MDL** Unit Dil Fac Analyte RL D Prepared Analyzed 10/04/22 08:26 10/04/22 12:09 1,2-Dibromoethane (EDB) 0.055 ND 0.039 ug/Kg

Client Sample ID: Trip Blank Lab Sample ID: 590-18815-6 **Matrix: Solid**

Date Collected: 10/03/22 00:00 Date Received: 10/03/22 14:45

Method: 8011 - EDB Analyte Result Qualifier RLMDL Unit Prepared Analyzed 0.048 1,2-Dibromoethane (EDB) ND 0.034 ug/Kg 10/04/22 08:26 10/04/22 12:25

10/4/2022

Matrix: Solid

Percent Solids: 89.8

QC Sample Results

Client: HDR Inc Job ID: 590-18815-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38382/2-A

Analysis Batch: 38384

MB MB

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

LCS LCS

MS MS

MSD MSD

DU DU

10.9

89.1

Result Qualifier

0.808

0.878

Result Qualifier

1.06

Result Qualifier

Unit

ug/Kg

Unit

ug/Kg

Unit

ug/Kg

Spike

Added

Sample Sample

Sample Sample

 $\overline{\mathsf{ND}}$

88.6

Result Qualifier

ND

Result Qualifier

1.00

Spike

Added

1.09

Spike

Added

1.08

Lab Sample ID: LCS 590-38382/3-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 38384

1,2-Dibromoethane (EDB)

Lab Sample ID: 590-18815-1 MS

Matrix: Solid

Analysis Batch: 38384

Analyte

1,2-Dibromoethane (EDB)

Lab Sample ID: 590-18815-1 MSD

Matrix: Solid

Analysis Batch: 38384

Analyte 1,2-Dibromoethane (EDB)

Lab Sample ID: 590-18815-5 DU

Matrix: Solid

Percent Solids

Analysis Batch: 38381

Sample Sample Analyte Result Qualifier Percent Moisture 11.4

Method: Moisture - Percent Moisture

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 38382

%Rec

Limits 60 - 140

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

D %Rec

D

106

Prep Type: Total/NA

Prep Batch: 38382

%Rec Limits

%Rec 60 - 140

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

%Rec

Prep Type: Total/NA

Prep Batch: 38382

%Rec **RPD**

Limits **RPD** Limit 60 - 140 20

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

Prep Type: Total/NA

RPD Result Qualifier Unit D **RPD** Limit % 20 % 0.6 20

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Job ID: 590-18815-1

Project/Site: Simplot Warden

Client: HDR Inc

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

Date Collected: 10/03/22 12:57

Lab Sample ID: 590-18815-1 **Matrix: Solid**

Date Received: 10/03/22 14:45

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
l	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 Date Received: 10/03/22 14:45

Matrix: Solid Percent Solids: 90.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Matrix: Solid

Date Collected: 10/03/22 12:59 Date Received: 10/03/22 14:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 10/03/22 14:45

Matrix: Solid Percent Solids: 88.8

Batch Batch Dil Initial Final Batch Prepared Method Number Amount Amount or Analyzed Analyst **Prep Type** Type Run **Factor** Lab 8011 10.21 g 10/04/22 08:26 M1V Total/NA 38382 EET SPK Prep 2 mL

1 mL

1 mL

38384

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

8011

Analysis

Lab Sample ID: 590-18815-3

10/04/22 11:21 M1V

Date Collected: 10/03/22 13:01 Date Received: 10/03/22 14:45

Total/NA

Matrix: Solid

EET SPK

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 10/03/22 14:45

Matrix: Solid Percent Solids: 88.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38381	10/04/22 08:08	M1V	EET SPK

Eurofins Spokane

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Lab Chronicle

Client: HDR Inc Job ID: 590-18815-1

Project/Site: Simplot Warden

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

Batch Batch Dil Initial Batch Final Prepared Number Method or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab Total/NA 8011 38382 10/04/22 08:26 M₁V EET SPK Prep 10.05 g 2 mL 10/04/22 11:53 M1V Total/NA 8011 38384 **EET SPK** Analysis 1 1 mL 1 mL

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

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Method Run **Amount Amount** Number or Analyzed Type **Factor** Analyst Lab Total/NA Analysis Moisture 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

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

Date Collected: 10/03/22 00:00 Date Received: 10/03/22 14:45

Dil Batch Initial Final Batch Batch Prepared **Prep Type** Type Method **Factor** Amount Amount Number or Analyzed Run Analyst Lab Prep Total/NA 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

Eurofins Spokane

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-18815-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	P	rogram	Identification Number	Expiration Date
Washington	S	tate	C569	01-06-23
The following analyte the agency does not	•	ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture	

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Method Summary

Client: HDR Inc Job ID: 590-18815-1

Project/Site: Simplot Warden

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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c

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a a

Phone (509) 924-9200 Phone (509) 924-9290

Sampler

Spokane, WA 99206

Δ Yes Δ No

Chain of Custody Record

Carrier Tracking No(s):

🦓 eurofins

COC No:

S Environment T sting An aica	1
odes	
M Hexane N None O AsNaO2 P Na2O4S	5
Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate	
U Acetone V MCAA W pH 4-5 Z other (specify)	7
Z offici (specay)	8
	9
nstructions/Note:	
	11

10/4/2022

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lient Contact: ered Newcomb	Phone: 509-899-4371				-Mail: Rande	e.An	ringto	on@e	et.eur	ofinsu	us.co	m		State WA	of Ori	gin:					Page: Page 1 of 1		****
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mail: ared.newcomb@hdrinc.com	WO#:				N S	2														12	I Ice J DI Water	U Acetone V MCAA	
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VE-Soil-Sept 3 -37Pre2	10/ 3 /2022	1259	G	s	→	N N	×	1		\dashv		1			_	1							
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mpty Kit Relinquished by		Date:			T	ime:									Metho	od of S	•						
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elinquished by:	Date/Time: Company					Received by:				Date/Time: Company													
Custody Seals Intact: Custody Seal No.						Cooler Temperature(s) °C and Other Remarks;						-											

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Lab PM

Client: HDR Inc Job Number: 590-18815-1

Login Number: 18815 List Source: Eurofins Spokane

List Number: 1 Creator: Fettig, Riley

Creator: Fettig, Riley		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

Eurofins Spokane



Environment Testing America

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

.....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.

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

Table of Contents

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Case Narrative

Client: HDR Inc Job ID: 590-18869-1

Project/Site: Simplot Warden

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.

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Sample Summary

Client: HDR Inc Job ID: 590-18869-1

Project/Site: Simplot Warden

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	Trin Blank	Solid	10/05/22 11:00	10/05/22 14:00	

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Definitions/Glossary

Client: HDR Inc Job ID: 590-18869-1

Project/Site: Simplot Warden

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.

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

7

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Client Sample Results

Client: HDR Inc Job ID: 590-18869-1 Project/Site: Simplot Warden Lab Sample ID: 590-18869-1 Client Sample ID: SVE-Soil-Oct5-38Pre1 Date Collected: 10/05/22 11:49 Matrix: Solid Date Received: 10/05/22 14:00 **General Chemistry** Analyte RL **RL** Unit D Dil Fac Result Qualifier Prepared Analyzed Percent Moisture (EPA Moisture) 0.01 0.01 % 10/06/22 07:52 11.5 Percent Solids (EPA Moisture) 0.01 0.01 % 10/06/22 07:52 88.5 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 Result Qualifier Analyte 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 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 Prepared Analyzed Dil Fac Percent Moisture (EPA Moisture) 0.01 0.01 % 10/06/22 07:52 10.4 0.01 % Percent Solids (EPA Moisture) 89.6 0.01 10/06/22 07:52 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 Prepared Analyzed Dil Fac 10/06/22 07:33 10/06/22 10:26 1.2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.052 0.037 ug/Kg 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) 0.01 0.01 % 10/06/22 07:52 9.6 Percent Solids (EPA Moisture) 90.4 0.01 0.01 % 10/06/22 07:52 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 Analyzed Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared 1,2-Dibromoethane (EDB) 0.053 10/06/22 07:33 10/06/22 10:42 ND 0.037 ug/Kg 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**

Result Qualifier

13.0

Analyte

Percent Moisture (EPA Moisture)

Eurofins Spokane

10/6/2022

Dil Fac

Analyzed

10/06/22 07:52

Page 6 of 14

RL Unit

0.01 % D

Prepared

RL

0.01

Client Sample Results

Client: HDR Inc Job ID: 590-18869-1

Project/Site: Simplot Warden

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 (Continued)

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

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

Method: EPA 8011 - EDB

Analyte Result Qualifier RL **MDL** Unit 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

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

Method: EPA 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed

1,2-Dibromoethane (EDB) 0.048 10/06/22 07:33 10/06/22 11:14 ND 0.034 ug/Kg

QC Sample Results

Client: HDR Inc Job ID: 590-18869-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38413/2-A

Matrix: Solid

Analysis Batch: 38415

1,2-Dibromoethane (EDB)

MB MB

Result Qualifier Analyte

Sample Sample

ND F2

Sample Sample

ND F2

Result Qualifier

RL 0.050 ND

MDL Unit 0.035 ug/Kg

Prepared

Analyzed

Client Sample ID: Method Blank

Dil Fac 10/06/22 07:33 10/06/22 09:07

Prep Type: Total/NA

Prep Batch: 38413

Prep Type: Total/NA

Prep Batch: 38413

Lab Sample ID: LCS 590-38413/3-A

Matrix: Solid

Analysis Batch: 38415

1,2-Dibromoethane (EDB)

Spike Added 1.00

Spike

Added

1.10

Spike

Added

1.11

1.06

Result Qualifier

LCS LCS

MS MS

MSD MSD

0.975 F2

DU DU

10.1

89.9

Result Qualifier

0.725

Result Qualifier

Unit ug/Kg

Unit

ug/Kg

Unit

ug/Kg

D %Rec 106

%Rec

%Rec

D

Limits 60 - 140

Lab Sample ID: 590-18869-1 MS

Matrix: Solid

Analysis Batch: 38415

Analyte

Result Qualifier 1,2-Dibromoethane (EDB)

Lab Sample ID: 590-18869-1 MSD **Matrix: Solid**

Analysis Batch: 38415

Analyte

1,2-Dibromoethane (EDB) **Method: Moisture - Percent Moisture**

Lab Sample ID: 590-18869-1 DU

Matrix: Solid

Analysis Batch: 38414

Sample Sample Analyte Result Qualifier Percent Moisture 11.5 88.5 Percent Solids

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

Client Sample ID: Lab Control Sample

%Rec

Prep Type: Total/NA

Prep Batch: 38413

%Rec Limits

60 - 140

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

Prep Type: Total/NA Prep Batch: 38413

%Rec **RPD**

Limits **RPD** Limit 60 - 140 20

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

Prep Type: Total/NA

RPD Result Qualifier Unit D **RPD** Limit % 14 20 % 2 20

Eurofins Spokane

10/6/2022

Job ID: 590-18869-1

Project/Site: Simplot Warden

Client: HDR Inc

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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**

Lab Sample ID: 590-18869-2

Lab Sample ID: 590-18869-3

Lab Sample ID: 590-18869-3

Lab Sample ID: 590-18869-4

10/06/22 10:42 NMI

Matrix: Solid

Matrix: Solid

EET SPK

Matrix: Solid

Percent Solids: 90.4

١		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
l	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

Matrix: Solid Percent Solids: 89.6

38415

1 mL

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38414	10/06/22 07:52	M1V	EET SPK

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

1 mL

1

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

Analysis

8011

Date Collected: 10/05/22 11:55

Date Received: 10/05/22 14:00

Total/NA

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38414	10/06/22 07:52	M1V	EET SPK

Eurofins Spokane

10/6/2022

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Lab Chronicle

Client: HDR Inc Job ID: 590-18869-1

Project/Site: Simplot Warden

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 590-18869-5 **Client Sample ID: Trip Blank**

Date Collected: 10/05/22 11:00 **Matrix: Solid**

Date Received: 10/05/22 14:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Job ID: 590-18869-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

authority I		rogram	Identification Number	Expiration Date		
Washington	nington State		C569	01-06-23		
The following analyte the agency does not	•	ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for which		
Analysis Method	Prep Method	Matrix	Analyte			
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture			

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Method Summary

Client: HDR Inc Job ID: 590-18869-1

Project/Site: Simplot Warden

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

eurofins

Chain of Custody Record

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

Environment Testing America

7,01.5 (5.50) 52.1 52.5 1.00,5 (5.50) 52.1 52.5																						
Client Information	Sampler Jered Newcomb	JAN			ab PM: Arringto	on R	ande	e F					Carr	er Tra	cking N	Vo(s):			CC	OG No:		
Client Contact:	Phone:	-,		E	-Mail:									of Or	igin:					ige:		
Jered Newcomb Company:	509-899-4371		PWSID:	!	Rande	e.Arrı	ingto	n@et.					WA							age 1 of 1 b#:		
-IDR Inc						1 89955666				Ana	lysis	Re	que	sted	, , , , , , , , , , , , , , , , , , , ,	- 1		- Danie	┸			
Address: 335 N Post St. Ste. 101	Due Date Requeste																	Control of the Contro		reservation Cod HCL	des M Hexa	na
city: Spokane	TAT Requested (d:	ays): 24 ho	ur																B	NaOH Zn Acetate	N None O AsNa	02
State, Zip: NA, 99202	Compliance Projec	cl. A Yes	Λ No								Ì						1		E	Nitric Acid NaHSO4 MeOH	P Na2O Q Na2S R Na2S	O3
Phone: 509-899-4371	PO #: Purchase Order	r Requested																	G	Amchlor Ascorbic Acid	S H2SO	
Email: ered.newcomb@hdrinc.com	WO#:				Z o	9												2	J	ice Di Water	U Aceto V MCAA	4
Project Name: Simplot Warden	Project #: 59002373				e Zei	es or												taine		EDTA EDA	W pH4- Z other	
Site: Warden WA	SSOW#:				Samp	N QS			-		ļ							of cor	8.3	lher [.]		
		Sample	Sample Type (C=comp,	Watri (W=wate S=solid O=wasteli BT=Yissa	Files	E	8011 EDB											Total Number				
Sample Identification	Sample Date	Time	G=grab) Preserva	A=Air)	<u>ت</u> ک	\leftarrow	<u>8</u>		-									I N	} -	Special in	struction	1s/Note
SVE-Soil-Oct 5 -38Pre1	10/5 /2022	1149	G	s	N	N	X	America in	esnen la.		<u> </u>	1		N. an . au Y	been Air		Ť	fi	1		and the second	
SVE-Soil-Oct 5 -38Pre2	10/ 5/2022	(15)	G	s	N	N	Х			1		1	1	T				T	T			
SVE-Soil-Oct 5 -38Pre3	10/ 5 /2022	1153	G	s	N	N	х										1	b	T			
SVE-Soil-Oct 5 -38Pre4	10/ 5 /2022	1155	G	S	N	N	х												T	***************************************		
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Possible Hazard Identification Non-Hazard ammable Salitant Pois	bn B	nown [Radiologica	af .		Sal		eturn			e maj		_	ssea osal E			s are	~~~3		longer than : For_	ı monun) Monti	
Deliverable Requested I II III IV Other (specify)						Spe	ecial	Instru	ctions	/QC	Requi	reme	ents.									
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Relinquished by: Jered Newcomb	Date/Time: $10/5/2$:	14,	OO	Company			Rece	ived by	W	/						Date/	0/5	γu		1400	Company 41A	sp.le
Relinquished by:	Date/Time:			Company			Rece	ived by	:							Date/1	ime:				Company	,
Relinquished by:	Date/Time:			Company			Rece	ived by	:							Date/	lîme:				Company	f
Custody Seals Intact: Custody Seal No. Δ Yes Δ No				Page	13 n	of 14	Coole	өг Төтр	perature	(s)°C	and Ot	her R	emark	s:		20	į		2	.8°C	TROA	40/6/202

Client: HDR Inc Job Number: 590-18869-1

Login Number: 18869 List Source: Eurofins Spokane

List Number: 1

Creator: Arrington, Randee E

Creator. Arrington, Nandee L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

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Environment Testing America

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

.....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.

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

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Case Narrative

Client: HDR Inc Job ID: 590-18909-1

Project/Site: Simplot Warden

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.

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Sample Summary

Client: HDR Inc Job ID: 590-18909-1

Project/Site: Simplot Warden

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 Job ID: 590-18909-1

Project/Site: Simplot Warden

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, 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)

Detection Limit (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)

Negative / Absent NEG POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

RL

0.01

0.01

RL

0.054

RL Unit

0.01 %

0.01 %

MDL Unit

0.038 ug/Kg

D

Prepared

Prepared

Result Qualifier

Result Qualifier

ND

10.8

89.2

Client: HDR Inc

Analyte

Analyte

Project/Site: Simplot Warden

Date Collected: 10/07/22 12:51

Date Received: 10/07/22 14:45

Percent Moisture (EPA Moisture)

Date Collected: 10/07/22 12:51

Date Received: 10/07/22 14:45

Date Collected: 10/07/22 12:53

Method: EPA 8011 - EDB

1,2-Dibromoethane (EDB)

Percent Solids (EPA Moisture)

General Chemistry

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

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

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

Job ID: 590-18909-1

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 89.2

Dil Fac

Dil Fac

Lab Sample ID: 590-18909-1

Analyzed

10/10/22 09:14

10/10/22 09:14

Analyzed

Lab Sample ID: 590-18909-1

10/10/22 08:02 10/10/22 12:54

Lab Sample ID: 590-18909-2

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Eurofins Spokane

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-	Oct7-39	Pre2				L	ab Sample	D: 590-18	3909-2
Date Collected: 10/07/22 12:53								Matrix	c: Solid
Date Received: 10/07/22 14:45								Percent Solid	ls: 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-	Oct7-39	Pre3					ab Sample	D: 590-18	3909-3
Date Collected: 10/07/22 12:55									c: Solid
Date Received: 10/07/22 14:45								THE COLUMN	00110
_									
General Chemistry Analyte	Popult	Qualifier	RL	ы	Unit	D	Droporod	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.0	Qualifier	0.01	0.01		_ =	Prepared	10/10/22 09:14	1 DII Fac
Percent Solids (EPA Moisture)	90.0		0.01	0.01				10/10/22 09:14	1
			0.01	0.01					
Client Sample ID: SVE-Soil-	Oct7-39	Pre3				L	ab Sample.	D: 590-18	3909-3
Date Collected: 10/07/22 12:55									c: Solid
Date Received: 10/07/22 14:45								Percent Solid	ls: 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-	Oct7-39	Pre4				L	ab Sample	D: 590-18	3909-4
Date Collected: 10/07/22 12:57									c: Solid
Date Received: 10/07/22 14:45									
General Chemistry									
	Daguill	Qualifier	RL	RI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Resuit	Qualifiei							

Client Sample Results

Client: HDR Inc Job ID: 590-18909-1

Project/Site: Simplot Warden

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

Client Sample ID: SVE-Soil-Oct7-39Pre4 Lab Sample ID: 590-18909-4

Date Collected: 10/07/22 12:57 **Matrix: Solid** Percent Solids: 88.9

Date Received: 10/07/22 14:45

Method: EPA 8011 - EDB Analyte Result Qualifier RL **MDL** Unit 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

Client Sample ID: SVE-Soil-Oct7-39DUP Lab Sample ID: 590-18909-5

Date Collected: 10/07/22 12:00

Date Received: 10/07/22 14:45

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

Client Sample ID: SVE-Soil-Oct7-39DUP Lab Sample ID: 590-18909-5

Date Collected: 10/07/22 12:00

Matrix: Solid Percent Solids: 89.4 Date Received: 10/07/22 14:45

Method: EPA 8011 - EDB

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

Client Sample ID: Trip Blank Lab Sample ID: 590-18909-6 **Matrix: Solid**

Date Collected: 10/07/22 00:00

Date Received: 10/07/22 14:45

Method: EPA 8011 - EDB Analyte Result Qualifier RLMDL Unit Prepared Analyzed 0.048 1,2-Dibromoethane (EDB) ND 0.033 ug/Kg 10/10/22 08:02 10/10/22 14:14

Matrix: Solid

10/10/2022

QC Sample Results

Client: HDR Inc Job ID: 590-18909-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38471/2-A

Matrix: Solid

Analysis Batch: 38472

MB MB

Analyte Result Qualifier

1,2-Dibromoethane (EDB)

ND

RL 0.050

MDL Unit 0.035 ug/Kg

Analyzed Prepared 10/10/22 08:02 10/10/22 09:43

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38471

Prep Type: Total/NA

Prep Batch: 38471

Dil Fac

Lab Sample ID: LCS 590-38471/3-A

Matrix: Solid

Analyte

Analysis Batch: 38472

1,2-Dibromoethane (EDB)

Spike Added 1.00

0.896

LCS LCS Result Qualifier

Unit ug/Kg D %Rec 90

Limits 60 - 140

%Rec

Client Sample ID: Method Blank

Client: HDR Inc

Project/Site: Simplot Warden

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

Date Collected: 10/07/22 12:51 Date Received: 10/07/22 14:45 Lab Sample ID: 590-18909-1

Lab Sample ID: 590-18909-1

Lab Sample ID: 590-18909-2

Lab Sample ID: 590-18909-2

Lab Sample ID: 590-18909-3

Lab Sample ID: 590-18909-4

Matrix: Solid

Matrix: Solid

Job ID: 590-18909-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/07/22 12:51 **Matrix: Solid** Date Received: 10/07/22 14:45 Percent Solids: 89.2

Γ		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
1	Total/NA	Prep	8011			10.31 g	2 mL	38471	10/10/22 08:02	NMI	EET SPK
Ľ	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

Date Collected: 10/07/22 12:53 Date Received: 10/07/22 14:45

Dil Batch Batch Initial Final Batch Prepared **Prep Type** Type Method Factor Amount Amount Number or Analyzed Analyst Run Lab Total/NA Moisture 38475 10/10/22 09:14 NMI EET SPK Analysis

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

Date Collected: 10/07/22 12:53 **Matrix: Solid** Date Received: 10/07/22 14:45 Percent Solids: 88.7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/07/22 12:55 **Matrix: Solid** Date Received: 10/07/22 14:45

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/07/22 12:57

Date Received: 10/07/22 14:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38475	10/10/22 09:14	NMI	EET SPK

Eurofins Spokane

Page 9 of 14

Matrix: Solid

Lab Chronicle

Client: HDR Inc Job ID: 590-18909-1

Project/Site: Simplot Warden

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/07/22 12:00 Date Received: 10/07/22 14:45

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Method **Amount Amount** Number or Analyzed Type Run **Factor** Analyst Lab Total/NA Analysis Moisture 38475 10/10/22 09:14 NMI EET SPK

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

Date Collected: 10/07/22 12:00

Date Received: 10/07/22 14:45

Batch Batch Dil Initial Final **Batch** Prepared **Prep Type** Туре Method Factor **Amount** Amount Number or Analyzed Analyst Run Lab Total/NA Prep 8011 38471 10/10/22 08:02 NMI EET SPK 10.63 g 2 mL Total/NA Analysis 8011 1 mL 1 mL 38472 10/10/22 13:58 NMI **EET SPK**

Client Sample ID: Trip Blank

Date Collected: 10/07/22 00:00

Date Received: 10/07/22 14:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 590-18909-5

Lab Sample ID: 590-18909-5

Lab Sample ID: 590-18909-6

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 89.4

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-18909-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	hority Pr		Identification Number	Expiration Date
Washington	S	tate	C569	01-06-23
The following analyte the agency does not	•	ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture	

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4.0

Method Summary

Client: HDR Inc Job ID: 590-18909-1

Project/Site: Simplot Warden

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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11922 East 1st Ave

Spokane, WA 99206

Chain of Custody Record

🧀 eurofins

Environment festing America

Phone (509) 924-9200 Phone (509) 924-9290																	
Client Information	Sampler Jered Newcomb, JAN	1		Lab PM: Arring		Ran	dee E				С	arrier Tracking	g No(s):			COC No:	
Client Information Client Contact: Jered Newcomb	Phone: 509-899-4371			E-Mail: Rande	e.Ar	ring	ton@e	t.eurof	insus	s.com		tate of Origin: VA				Page: Page 1 of 1	
Company: HDR Inc		P\	WSID:						Ana	lysis	Requ	ested			J	Job#:	
Address: 835 N Post St. Ste. 101	Due Date Requested:														4	Preservation Codes A HCL M	Hexane
City: Spokane	TAT Requested (days):	24 hour	•												1	B NaOH N C Zn Acetate O	None AsNaO2 Na2O4S
State, Zip: WA, 99202	Compliance Project: A	Yes Λ	No												- 1	E NaHSO4 Q	Na2SO3 Na2S2O3
Phone: 509-899-4371	PO#: Purchase Order Requ	ested			5										-	G Amchlor S H Ascorbic Acid T	H2SO4 TSP Dodecahydrate
Email: jered.newcomb@hdrinc.com	WO #:			4.0	or No.										2	J DI Water V	Acetone MCAA
Project Name: Simplot Warden	Project #: 59002373			Š										3	taine		/ pH 4-5 other (specify)
Site: Warden WA	SSOW#:				Sey OS										8	Other [.]	
Sample identification	Sample Date Tir	iple (Sample (w=x Type S=x C=comp, BT=TI G=grab) A=/ Preservation C	vater olid, stefoli issue,	Perform MS/M	FINE STA					590-1				Total Number	Special Instr	uctions/Note
SVE-Soil-Oct 7-39Pre1	10/7/2022 (3)		G S		N N		_		1	1	8909				$\widehat{\mathbb{T}}$	3	
SVE-Soil-Oct 7-39Pre2	10/ 7/2022 /25		G S	;	N N	1,	$\langle $		t	+	Chain			1 7	1		
SVE-Soil-Oct 7 -39Pre3	10/7/2022 /250		G S	3 1	N N	1,	$\langle $		1		of E			1	1		
SVE-Soil-Oct 7-39Pre4	10/7/2022]		G S	; I	N N	1	<		 		ustod		+	1 1	1		
SVE-Soil-Oct 7-39DUP	10/7/2022 120	U	G S	3 1	N N	1	〈				9				1		
Trip Blank			s	3 1	N N	1	<						***************************************		1		
							\perp										
Possible Hazard Identification Non-Hazard ammable S itant Pois	sbn Bnown	П.	adiological		Si	_	ole Dis₁ ⊋ _{eturr}		•	ee may	_	sessed if . sposal By l	•	***************************************		ed longer than 1 m ive For	i onth) Months
Deliverable Requested: I II III IV Other (specify)	SUITE L. NOWII		adiological	······································	S					Requir			-au	, , , , , , ,	CH	<u> </u>	MOINIS
Empty Kit Relinquished by	Date				Time):		,	7),		Mathod	of Shipment	:			
Relinquished by: Joseph Rencomb All	Date/Time;	14	46 Compa	ny			eceiy/d t	\mathcal{M}							7		company SCO
Relinquished by:	Date/Time:		Compa	ny		Re	ceived b	y: //					Date/Tin	ne:		C	Company
Relinquished by:	Date/Time:		Compa	ny	·	Re	eceived b	by:					Date/Tin	ne:		C	Company
Custody Seals Intact: Custody Seal No. Δ Yes Δ No			Page	13 of	14	L Co	ooler Ten	nperatur	e(s) °(C and Olf	er Rem	arks: Z	3,4°	(<u>_</u> ;	and Ro	10/2022

Client: HDR Inc Job Number: 590-18909-1

Login Number: 18909 List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

Creator. Vaugnan, Madison 1		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

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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:

Randee Arrington, Lab Director (509)924-9200

10/12/2022 3:42:47 PM

Randee.Arrington@et.eurofinsus.com

Lancue tringte

Review your project results through EOL

Have a Question?

Ask
The Expert

www.eurofinsus.com/Env

Visit us at:

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.

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

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Case Narrative

Client: HDR Inc Job ID: 590-18935-1

Project/Site: Simplot Warden

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 Job ID: 590-18935-1

Project/Site: Simplot Warden

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 Job ID: 590-18935-1

Project/Site: Simplot Warden

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								

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

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Client: HDR Inc

Project/Site: Simplot Warden

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

Job ID: 590-18935-1

Lab Sample ID: 590-18935-1

Eurofins Spokane

10/12/2022

Page 6 of 14

Client Sample ID: SVE-Soil Date Collected: 10/09/22 13:40 Date Received: 10/11/22 14:50	-Oct9-40	Pre1				L	ab Samplo	e ID: 590-18 Matrix	8935-1 c: Solid
General Chemistry Analyte	Pocult	Qualifier	RL	DI	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.2	Quanner	0.01	0.01			Fiepareu	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	-Oct9-40	Pre1				ı	ab Sample	e ID: 590-18	3935-1
Date Collected: 10/09/22 13:40									c: Solid
Date Received: 10/11/22 14:50								Percent Solid	ls: 87.8
Method: EPA 8011 - EDB									
Analyte		Qualifier	RL _		Unit	<u>D</u>	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	-Oct9-40	Pre4				L	ab Sample	e ID: 590-18	
Date Collected: 10/09/22 13:52 Date Received: 10/11/22 14:50								Matrix	c: Solid
General Chemistry Analyte	Popult	Qualifier	RL	DI.	Unit	D	Dronorod	Analyzad	Dil Fac
Percent Moisture (EPA Moisture)	10.9	Quaimer	0.01	0.01			Prepared	Analyzed 10/12/22 09:35	1 Dil Fac
Percent Solids (EPA Moisture)	89.1		0.01	0.01				10/12/22 09:35	1
Client Sample ID: SVE-Soil	-Oct9-40	Pre4					ah Sample	e ID: 590-18	3935-2
Date Collected: 10/09/22 13:52									c: Solid
Date Received: 10/11/22 14:50								Percent Solid	ls: 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	-Oct11-4	0Post48-1				L	ab Sample	D: 590-18	3935-3
Date Collected: 10/11/22 12:16								Matrix	c: Solid
Date Received: 10/11/22 14:50									
General Chemistry									
Analyte		Qualifier	RL _		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture)	11.5		0.01 0.01	0.01 0.01				10/12/22 09:35 10/12/22 09:35	1
,	88.5		0.01	0.01	70				1
Client Sample ID: SVE-Soil	-Oct11-4	0Post48-1				L	ab Sample	e ID: 590-18	
Date Collected: 10/11/22 12:16 Date Received: 10/11/22 14:50								Matrix Percent Solid	c: Solid
								r creent done	13. 00.0
Method: EPA 8011 - EDB	Decult	Ovalifian	DI	MDI	l lmi4	_	Duamanad	Amalumad	Dil Fee
Analyte 1,2-Dibromoethane (EDB)	ND	Qualifier	RL 0.055		Unit ug/Kg	— <u>D</u>	Prepared 10/12/22 08:26	Analyzed 10/12/22 11:30	Dil Fac
			0.000	0.000	ug/itg				
Client Sample ID: SVE-Soil	-Oct11-4	0Post48-2				L	ab Sample	e ID: 590-18	
Date Collected: 10/11/22 12:18 Date Received: 10/11/22 14:50								Matrix	c: Solid
General Chemistry Analyte	Rocult	Qualifier	RL	ρı	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.8	<u> </u>	0.01	0.01		5	Tiepaieu	10/12/22 09:35	1

Client Sample Results

Client: HDR Inc Job ID: 590-18935-1

Project/Site: Simplot Warden

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 (Continued)

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

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

Method: EPA 8011 - EDB

Analyte Result Qualifier RL **MDL** Unit 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

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

1,2-Dibromoethane (EDB)

Method: EPA 8011 - EDB Analyte Result Qualifier RL MDL Unit Dil Fac Prepared Analyzed

ND

0.049

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0.035 ug/Kg

10/12/22 08:26 10/12/22 12:02

Eurofins Spokane

QC Sample Results

Client: HDR Inc Job ID: 590-18935-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38529/2-A

Matrix: Solid

Analysis Batch: 38530

1,2-Dibromoethane (EDB)

1,2-Dibromoethane (EDB)

MB MB Analyte

Result Qualifier

Sample Sample

Sample Sample

Sample Sample

 $\overline{\mathsf{ND}}$

Result Qualifier

ND

Result Qualifier

ND

RL **MDL** Unit 0.050 0.035 ug/Kg

Prepared

Client Sample ID: Method Blank

Analyzed 10/12/22 08:26 10/12/22 09:53

Prep Type: Total/NA

Prep Batch: 38529

Prep Type: Total/NA

Prep Batch: 38529

Client Sample ID: Lab Control Sample

Dil Fac

Lab Sample ID: LCS 590-38529/3-A

Matrix: Solid

Analysis Batch: 38530

Spike Added 1.00

Spike

Added

1.13

Spike

Added

1.13

LCS LCS 1.08

MS MS

MSD MSD

DU DU

%

12.1

87.9

Result Qualifier

0.853

0.840

Result Qualifier

Result Qualifier

Unit ug/Kg

D %Rec 108

Limits 60 - 140

%Rec

Lab Sample ID: 590-18935-1 MS

Matrix: Solid

Analysis Batch: 38530

Analyte

1,2-Dibromoethane (EDB)

Lab Sample ID: 590-18935-1 MSD **Matrix: Solid**

Analysis Batch: 38530

Analyte 1,2-Dibromoethane (EDB)

Method: Moisture - Percent Moisture

Lab Sample ID: 590-18935-1 DU **Matrix: Solid**

Analysis Batch: 38532

Analyte Result Qualifier Percent Moisture 12.2 87.8 Percent Solids

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

Prep Type: Total/NA

Prep Batch: 38529 %Rec

Limits Unit D %Rec ug/Kg

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

Prep Type: Total/NA Prep Batch: 38529

%Rec **RPD** Limits **RPD** Limit

Unit %Rec ug/Kg 60 - 140 20

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

Prep Type: Total/NA

0

20

RPD Result Qualifier Unit **RPD** Limit % 0.1 20

Eurofins Spokane

10/12/2022

Page 8 of 14

Job ID: 590-18935-1

Project/Site: Simplot Warden

Client: HDR Inc

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 590-18935-2

Lab Sample ID: 590-18935-3

Lab Sample ID: 590-18935-3

Lab Sample ID: 590-18935-4

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Matrix: Solid Percent Solids: 89.1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Matrix: Solid Date Received: 10/11/22 14:50 Percent Solids: 88.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

	E	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Pre	ep Type	Гуре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Tot	al/NA A	Analysis	Moisture		1			38532	10/12/22 09:35	NMI	EET SPK

Eurofins Spokane

10/12/2022

Matrix: Solid

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Lab Chronicle

Client: HDR Inc Job ID: 590-18935-1

Project/Site: Simplot Warden

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 590-18935-5 **Client Sample ID: Trip Blank**

Date Collected: 10/11/22 00:00 **Matrix: Solid**

Date Received: 10/11/22 14:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Job ID: 590-18935-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	Pr	ogram	Identification Number	Expiration Date
Washington	Sta	ate	C569	01-06-23
0 ,	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
the agency does not o	offer certification.			
the agency does not on the Analysis Method	offer certification. Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Percent Moisture	

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Method Summary

Client: HDR Inc Job ID: 590-18935-1

Project/Site: Simplot Warden

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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11922 East 1st Ave

Spokane, WA 99206

🐉 eurofins

Chain of Custody Record

Environment Testing

Phone (509) 924-9200 Phone (509) 924-9290										
Client Information	Sampler Jered Newcomb, JAN Jo	nke Allen	Lab PM: Arrington	Randee E		Carrier Tracking I	No(s):		DC No: 90-7430-2162.1	
Client Contact: Jered Newcomb	Phone: 509-899-4371	i	E-Mai Randee.A	rrington@et.euro	finsus.com	State of Origin: WA			age: age 1 of 1	***
Company: HDR Inc	•	PWSID:		· •	Analysis Re	guested			b#:	
Address: 835 N Post St. Ste. 101	Due Date Requested:	•						1	ostservation Co	
City:	TAT Requested (days):		$\exists 1$					В	HCL NaOH	M Hexane N None
Spokane State, Zip:	24 ho							D	Zn Acetate Nitric Acid	O AsNaO2 P Na2O4S
WA, 99202 Phone:	Compliance Project: Δ Yes PO #:	A No	$-\ \cdot\ $					F	NaHSO4 MeOH Amchlor	Q Na2S03 R Na2S2O3 S H2SO4
509-899-4371 Email:	Purchase Order Requested Wo #:	d	— [ᢓ					н	Ascorbic Acid	T TSP Dodecahydrate U Acetone
jered.newcomb@hdrinc.com Project Name:								y J	DI Water EDTA	V MCAA W pH 4-5
Simplot Warden	Project #: 59002373		<u>&</u>					1 2 1	EDA	Z other (specify)
Site: Warden WA	SSOW#:		Samp					ΙĕL	ther [.]	
		Sample (wewal	er, alle	508				Į § I¥	Part treatman	samples after 48 amples (2) ann valde,
Sample Identification	Sample Date Time	(C=comp, BTaTiss G=grab) A=Air	sue, 🖺	8041				Total	כיו און הניגעטי Special In:	structions/Note:
		Postservation Co	ode: XX					X		
SVE-Soil-June 3Post1	6/ /2022	G S	י א	<u>√ × </u>						
SVE Seil-June 3Post2 5 VE	6/ /2022	+c s	N N	 	1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	186(\$88)(18888) (1886 SR)	 			
SVE Soil-June 3Posts	6/ /2022	s	141-1	√ × 						
8VE-Seil-June 3Poste ^{Vh}	67 /2022	 s s	N N	 						
SVE-Soil-June 3DUR "	6/ /2022	8	11/1	 	590-18935	Chain of Custo	ody			
Trip Blank		S	NN	1 X						
SVE-Sail-Ort9-40Prel A	10/9/22 1340	G 2	<u> </u>	V X B				14	/ ! 	
5VE-Soil Oct9-406055VE-501-00111-	10/11/22 345			× g				世,	- multichen	t sample. Disposed
5VE-5011-0219-10Pre 3	1349			 				#	Insufficient	limple, Dispose
5/E-501-0019-40 Pie4	1352	1 4 4	14 4				<u> </u>	1		
318-3011-00111-4078x +48-2	10/11/22 1318	6 5	N N			╅╾┾╼┾═╌		<u> </u>		
Possible Hazard Identification	son B Ilaknown	Radiological	S	ample Disposal Return To C		assessed if sa Disposal By La	mpies are re	tained Archive	longer than 1 For	month) Months
Deliverable Requested: I, II III, IV Other (specify)	ion b Gradioun	Radiological	S	pecial Instruction			~	7.1 017170		
Empty Kit Relinquished by	Date:		Time): ,	24.4	Method of	Shipment:	•		
Relinquished by: SUKCAIICY	Date/fime: 10/11/ZZ 11.2	Company	Mar	Received by:	11/2-	•	Date/Time:	<i>ا</i> لکام	1151	Company (4PR
Relinquished by: Jered Newcomb All	Date/Fime: 10/11/22 14/1		,	Received by	1) Litt	-	Date/Time: 20/11/22	2		Company EEC/PO
Relinquished by:	Date/Time:		13 of 1	4 Received by:	J How		Date/Time:		· · · ·	Company 10/12/2022
Custody Seals Intact: Custody Seal No.			*****		re(s) °C and Other Re	emarks:				

Client: HDR Inc Job Number: 590-18935-1

Login Number: 18935 List Source: Eurofins Spokane

List Number: 1 Creator: Fettig, Riley

Creator: Fettig, Riley		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

Eurofins Spokane



Environment Testing America

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:

Randee Arrington, Lab Director (509)924-9200

10/12/2022 3:43:51 PM

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.

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

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Case Narrative

Client: HDR Inc Job ID: 590-18936-1

Project/Site: Simplot Warden

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 Job ID: 590-18936-1

Project/Site: Simplot Warden

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 Job ID: 590-18936-1

Project/Site: Simplot Warden

Glossary

LOQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

Limit of Quantitation (DoD/DOE)

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

Eurofins Spokane

10/12/2022

Client Sample	ID: SVE-Soil-Oct11-41-Pi	re1
---------------	--------------------------	-----

Date Collected: 10/11/22 12:46 Date Received: 10/11/22 14:50

Lab Sample ID: 590-18936-1

Matrix: Solid

l	General	Chemistry

Client: HDR Inc

Analyte	Result C	Qualifier	RL F	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.7	0.	0.0	01	%			10/12/22 09:35	1
Percent Solids (EPA Moisture)	89.3	0.	0.0	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 Date Received: 10/11/22 14:50

Matrix: Solid

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

Date Collected: 10/11/22 12:48 Date Received: 10/11/22 14:50

Lab Sample ID: 590-18936-2

Matrix: Solid

General Chemistry								
Analyte	Result Qu	ıalifier R	L RL	. Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.8	0.0	1 0.01	%			10/12/22 09:35	1
Percent Solids (EPA Moisture)	90.2	0.0	1 0.01	%			10/12/22 09:35	1

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

Date Collected: 10/11/22 12:48 Date Received: 10/11/22 14:50

Lab Sample ID: 590-18936-2

Matrix: Solid 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	— <u></u>	10/12/22 08:26	10/12/22 12:49	1

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

Date Collected: 10/11/22 12:50 Date Received: 10/11/22 14:50

Lab Sample ID: 590-18936-3

Matrix: Solid

General Chemistry

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

Date Collected: 10/11/22 12:50 Date Received: 10/11/22 14:50

Lab Sample ID: 590-18936-3

Matrix: Solid 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

Date Collected: 10/11/22 12:52 Date Received: 10/11/22 14:50

Lab Sample ID: 590-18936-4

Matrix: Solid

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 Job ID: 590-18936-1

Project/Site: Simplot Warden

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 RLRL Unit D Prepared Analyzed Dil Fac Percent Solids (EPA Moisture) 0.01 0.01 10/12/22 09:35 87.2

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 0.056 1,2-Dibromoethane (EDB) ND 10/12/22 08:26 10/12/22 13:21 0.039 ug/Kg

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 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

QC Sample Results

Client: HDR Inc Job ID: 590-18936-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Analyte

Lab Sample ID: MB 590-38529/2-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 38530

Prep Batch: 38529 MB MB Dil Fac Result Qualifier RL MDL Unit Prepared Analyzed 0.050 ND0.035 ug/Kg 10/12/22 08:26 10/12/22 09:53

Lab Sample ID: LCS 590-38529/3-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 38530

1,2-Dibromoethane (EDB)

Spike LCS LCS %Rec Added Result Qualifier Unit D %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 Client Sample ID: SVE-Soil-Oct11-41-Pre1 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 38532

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

Prep Type: Total/NA

Prep Batch: 38529

Project/Site: Simplot Warden

Client: HDR Inc

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

Date Collected: 10/11/22 12:46 Date Received: 10/11/22 14:50

Lab Sample ID: 590-18936-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/11/22 12:46

Date Received: 10/11/22 14:50

Lab	Sami	ole	ID:	590-1	8936-1

Matrix: Solid Percent Solids: 89.3

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Initial

Amount

Final

Amount

38532

Dil

Factor

Run

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

Batch

Туре

Analysis

Date Collected: 10/11/22 12:48

Date Received: 10/11/22 14:50

Prep Type

Total/NA

Batch	Prepared			
Number	or Analyzed	Analyst	Lab	

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

Batch

Method

Moisture

Date Collected: 10/11/22 12:48

Date Received: 10/11/22 14:50

10/12/22 09:35 NMI EET SPK	or Analyzed	Analyst	Lab	
	10/12/22 09:35	NMI	EET SPK	

Lab Sample ID: 590-18936-2

Lab Sample ID: 590-18936-2 **Matrix: Solid** Percent Solids: 90.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/11/22 12:50

Date Received: 10/11/22 14:50

Lab	Sample	ID:	590-18936-3
			Matrix: Solid

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Į	Total/NA	Analysis	Moisture	· · ·	1			38532	10/12/22 09:35	NMI	EET SPK

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

Date Collected: 10/11/22 12:50

Date Received: 10/11/22 14:50

mple ID: 590-18936-3

Lab Sample ID: 590-18936-4

Matrix: Solid Percent Solids: 90.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/11/22 12:52

Date Received: 10/11/22 14:50

Date Hoodingar 10										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38532	10/12/22 09:35	NMI	EET SPK

Eurofins Spokane

Matrix: Solid

Lab Chronicle

Client: HDR Inc Job ID: 590-18936-1

Project/Site: Simplot Warden

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Eurofins Spokane

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-18936-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority Washington		Program	Identification Number	Expiration Date 01-06-23	
		State	C569		
The following analytes the agency does not of		out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for whic	
Analysis Method	Prep Method	Matrix	Analyte		
Moisture		Solid	Percent Moisture		
Moisture		Solid	Percent Solids		

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Method Summary

Client: HDR Inc Job ID: 590-18936-1

Project/Site: Simplot Warden

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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Phone (509) 924-9200 Phone (509) 924-9290

Spokane, WA 99206

Client Information

Chain of Custody Record

Arrington Randee E

Sampler:

Jered Newcomb, JAN /

🕸 eurofins

COC No:

Carrier Tracking No(s):

Environment Testing America

	Phone:	E-Mi								State of Origin:				Page:							
Jered Newcomb	509-899-4371	PWSID:	Ranc	gee.#	Arrington@et.euronnsus.com				WA						Job #	e 1 of 1					
Company: HDR Inc		PWSID:						An	alysis	s Re	ques	ted					300#				
Address.	Due Date Requested:	•							Ť		İ					9000-0	Pres	ervation C	odes		
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Spokane State, Zip:	24 11	Oui												ŀ				litric Acid		1514aUZ 1a2O4S	
WA, 99202	Compliance Project: A Yes	A No														ľ	EΝ	aHSO4	Q N	Na2SO3	
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jered.newcomb@hdrinc.com				8	2		İ					ļ				2		l Water DTA		ЛСАА pH 4-5	
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	Sample	(C=Comp, BT-TI	seue,		Perform MS/N	8011										Total		01-1		4)	
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Possible Hazard Identification				3											s are	retair	ned lo	nger than	ı 1 mor	nth)	
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Deliverable Requested: I II III, IV Other (specify)		7.		3	Spec	cial I	Instructio	ns/QC	Requ	ireme	nts.										
Empty Kit Relinquistred/by	Date:			Tim	e:		^					Meth	od of S	Shipme	ent:						
Relinquished by:	Date/Time: (4.5)	O Compar	ĎΩ		F	Recei	ved by	, ,	liki	1				Date/I	ime: /////	22	10	150	Con	ipany TVO	80
Relinquished by	Date/Time:	Compar			TF	Recei	ived by:		rue	/				Date/1						npany	
Relinquished by:	Date/Time:	Compar	пу		F	Recei	ived by:		-					Date/1	lime:				Con	npany	
Custody Seals Intact: Custody Seal No.		D	. 12) of	1	Coole	r Temperat	lure(s) °	'C and C	ther Re	emarks	: ^	U V	1	(' 01	D00			10/4	12/202
Δ Yes Δ No		Pag	je 13	OI O	144							ø	A.	- 5	`	−\W	VV V			10/1	2/202

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Client: HDR Inc Job Number: 590-18936-1

Login Number: 18936 List Source: Eurofins Spokane

List Number: 1 Creator: Fettig, Riley

oroutor. I ottig, renoy		
Question	Answer Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	
ls 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 America

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:

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

Randee Arrington, Lab Director (509)924-9200

Randee.Arrington@et.eurofinsus.com

LINKS



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.

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

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Case Narrative

Client: HDR Inc Job ID: 590-18959-1

Project/Site: Simplot Warden

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.

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Sample Summary

Client: HDR Inc Job ID: 590-18959-1

Project/Site: Simplot Warden

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 Job ID: 590-18959-1

Project/Site: Simplot Warden

Glossary

DL

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									

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)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN 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

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Job ID: 590-18959-1

Matrix: Solid

Project/Site: Simplot Warden

Client: HDR Inc

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

Lab Sample ID: 590-18959-1

Matrix: Solid

Date Collected: 10/13/22 13:10 Date Received: 10/13/22 15:10

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 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

 Method: EPA 8011 - EDB

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

Client Sample ID: SVE-Soil-Oct13-42Pre2 Lab Sample ID: 590-18959-2

Date Collected: 10/13/22 13:15 Date Received: 10/13/22 15:10

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

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

 Method: EPA 8011 - EDB

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

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

Date Collected: 10/13/22 13:20

Lab Sample ID: 590-18959-3

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)	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 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

 Method: EPA 8011 - EDB

 Analyte
 Result 1,2-Dibromoethane (EDB)
 Qualifier ND
 RL 0.053
 MDL unit 0.053
 Unit 0 ug/Kg
 D variable value of 10/14/22 08:51
 Analyzed Analyzed 10/14/22 11:53
 Dil Fac 10/14/22 11:53
 Dil Fac 10/14/22 08:51
 Dil Fac 10/14/22 08:51
 Dil Fac 10/14/22 08:51
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Client Sample ID: SVE-Soil-Oct13-42Pre4 Lab Sample ID: 590-18959-4

Date Collected: 10/13/22 13:25 Date Received: 10/13/22 15:10

General Chemistry									
Analyte	Result Q	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

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Matrix: Solid

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10/14/2022

Client Sample Results

Client: HDR Inc Job ID: 590-18959-1

Project/Site: Simplot Warden

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

Client Sample ID: SVE-Soil-Oct13-42Pre4 Lab Sample ID: 590-18959-4

Date Collected: 10/13/22 13:25 **Matrix: Solid** Percent Solids: 86.9

Date Received: 10/13/22 15:10

Method: EPA 8011 - EDB Analyte Result Qualifier RL **MDL** Unit 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

Lab Sample ID: 590-18959-5 Client Sample ID: SVE-Soil-Oct13-42DUP

Date Collected: 10/13/22 15:00

Date Received: 10/13/22 15:10

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

Client Sample ID: SVE-Soil-Oct13-42DUP Lab Sample ID: 590-18959-5

Date Collected: 10/13/22 15:00 Matrix: Solid Percent Solids: 89.7 Date Received: 10/13/22 15:10

Method: EPA 8011 - EDB Result Qualifier Analyte RL **MDL** Unit D Analyzed Dil Fac Prepared 10/14/22 08:51 10/14/22 12:25 1,2-Dibromoethane (EDB) 0.055 ND 0.038 ug/Kg

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 RLMDL Unit Prepared Analyzed 0.046 1,2-Dibromoethane (EDB) ND 0.032 ug/Kg 10/14/22 08:51 10/14/22 12:41

Matrix: Solid

QC Sample Results

Client: HDR Inc Job ID: 590-18959-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38577/2-A

Matrix: Solid

Analysis Batch: 38585

MB MB

Result Qualifier

Analyte 1,2-Dibromoethane (EDB) ND

RL 0.050

MDL Unit 0.035 ug/Kg

Prepared

Analyzed 10/14/22 08:51 10/14/22 10:17

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 38577

Prep Type: Total/NA

Prep Batch: 38577

Lab Sample ID: LCS 590-38577/3-A

Matrix: Solid

Analysis Batch: 38585

Spike

Sample Sample

Sample Sample

 $\overline{\mathsf{ND}}$

Result Qualifier

ND

Result Qualifier

Added 1.00

Spike

Added

1.11

Spike

Added

1.07

1.12

MS MS

MSD MSD

DU DU

10.8

89.2

Result Qualifier

Unit

ug/Kg

%

0.957

0.899

Result Qualifier

LCS LCS

Result Qualifier Unit

ug/Kg

112

60 - 140

%Rec

%Rec

Client Sample ID: Method Blank

Lab Sample ID: 590-18959-1 MS

Matrix: Solid

Analysis Batch: 38585

1,2-Dibromoethane (EDB)

Analyte

1,2-Dibromoethane (EDB) Lab Sample ID: 590-18959-1 MSD

Matrix: Solid

Analysis Batch: 38585

Analyte

1,2-Dibromoethane (EDB)

Method: Moisture - Percent Moisture

Lab Sample ID: 590-18959-1 DU

Matrix: Solid

Analysis Batch: 38584

Sample Sample Analyte Result Qualifier Percent Moisture 11.1 88.9 Percent Solids

D %Rec Limits

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

Prep Type: Total/NA Prep Batch: 38577

Limits Unit D %Rec ug/Kg

%Rec

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

Prep Type: Total/NA Prep Batch: 38577

%Rec **RPD** Limits **RPD** Limit

0.3

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

60 - 140

Prep Type: Total/NA

RPD Result Qualifier Unit D **RPD** Limit % 2 20

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Dil Fac

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Job ID: 590-18959-1

Project/Site: Simplot Warden

Client: HDR Inc

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

Date Collected: 10/13/22 13:10

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

Date Received: 10/13/22 15:10

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
l	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

Lab Sample ID: 590-18959-2

Lab Sample ID: 590-18959-3

Date Collected: 10/13/22 13:10 **Matrix: Solid** Date Received: 10/13/22 15:10 Percent Solids: 88.9

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/13/22 13:15 **Matrix: Solid** Percent Solids: 89.6

Date Received: 10/13/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/13/22 13:20 **Matrix: Solid**

Date Received: 10/13/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38584	10/14/22 09:34	NMI	EET SPK

Eurofins Spokane

Percent Solids: 90.1

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Lab Chronicle

Client: HDR Inc Job ID: 590-18959-1

Project/Site: Simplot Warden

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

Lab Sample ID: 590-18959-4 Date Collected: 10/13/22 13:25 Date Received: 10/13/22 15:10

Matrix: Solid Percent Solids: 86.9

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

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

Lab Sample ID: 590-18959-5

Matrix: Solid

Date Collected: 10/13/22 15:00 Date Received: 10/13/22 15:10

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type Amount Amount** Number or Analyzed Type Run **Factor** Analyst Lab Total/NA Analysis Moisture 38584 10/14/22 09:34 NMI EET SPK

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

Lab Sample ID: 590-18959-5

Matrix: Solid

Date Collected: 10/13/22 15:00 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

Matrix: Solid

Date Collected: 10/13/22 00:00 Date Received: 10/13/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Eurofins Spokane

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-18959-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	P	rogram	Identification Number	Expiration Date
Washington	S	tate	C569	01-06-23
The following analyte the agency does not	•	ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture	

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Method Summary

Client: HDR Inc Job ID: 590-18959-1

Project/Site: Simplot Warden

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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Phone (509) 924-9200 Phone (509) 924-9290

Spokane, WA 99206

Client Information Client Contact:

Chain of Custody Record

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Environment Testing America

Client Information	Sampler Jered Newcomb	. JAN / D4	is Band	LOA Ar	PM: ringto	on. B	Rand	ee E					Carri	ier Trac	king N	o(s):			COC No:		
Client Contact: Jered Newcomb	Phone: 509-899-4371			C-31	Mail:				ot tro	finalle	0.000		State	of Ori	gīn:				Page:		
Company:	209-099-4371		PWSID:	Ive	inde	J.AII	iiigic	on@et											Page 1 of 1 Job#:		
HDR Inc Address:	Due Date Requeste	ed:					_			Ana	alysis	s Re	ques	sted	— т		$\overline{}$	17778	Preservation Cor	dae	
335 N Post St. Ste. 101	·																		A HCL	M Hexane	
čity: Spokane	TAT Requested (da	nys): 24 ho	ur															7	B NaOH C Zn Acetate	N None O AsNaO2	
State, Zip: NA, 99202	Compliance Projec	et: Δ Yes	Δ No															and in the same	D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3	
Phone: 509-899-4371	PO#: Purchase Order	Requested			_ 													9	F MeOH G Amchlor H Ascorbic Acid	R Na2S2O3 S H2SO4 T TSP Dode	
ered.newcomb@hdrinc.com	WO #:				Z Z	9												iá.	I ice J DI Water	U Acetone V MCAA	•
Project Name: Bimplot Warden	Project #: 59002373				3	s or No)												ainer	K EDTA L EDA	W pH 4-5 Z other (spe	ecify)
Site: Warden WA	SSOW#:					Perform MS/MSD (Yes												fcont	Olher [.]		
			C	Matrix	닉쫗	<u> </u>												bero			
			Sample Type	(W=water, S≠soild, O≈waste/oil	File	Ē	EDB											New			
Sample Identification	Sample Date	Sample Time	(C≔comp, G≔grab)	A=Air)	9	Sarto	8011											Total	Special in	structions/l	Note:
		><	Mary Committee of the C	ation Code:	⋾⋝	区		, , , , , , , , , , , , , , , , , , ,									antel contr	X			
SVE-Soil-Oct (3 -42Pre1	10/ 3 /2022	1310	G	s	N	Ν	Х											1			
SVE-Soil-Oct (3 -42Pre2	10/(} /2022	1315	G	s	N	N	Х											1			
SVE-Soil-Oct 3 -42Pre3	10/[] /2022	1320	G	s	N	N	х											1			
SVE-Soil-Oct () -42Pre4	10/) } /2022	1325	G	s	N	N	Х											1			
SVE-Soil-Oct 3 -42DUP	10/ 3 /2022	1500	G	s	N	N	Х					- Landard						Î			
Trìp Blank				S	N	N	Х											1			
																		behness			
			,																		
1999-18959 Chain of Custody										-								atmost .			
Possible Hazard Identification						Sar	_				e ma						are r	_	ed longer than 1	-	
Non-Hazard ammable Si itant Pois Deliverable Requested: I, II, III IV Other (specify)	bn B Lh	own L	Radiologica	al .		Spe		<i>eturn</i> Instru			Regu			sal B	/ Lab			Archi	ve For	Months	
Empty Kit Relinquished by		Date:			Tii	me;								Metho	d of S	hipmen	l:				
Relinquished by:	Date/Time: /		08	Company H O I			Rece	ived by	7	1	•					Date/Tir	ne:		4/10	Company 4 1/15/	
Relinquished by:	[0/13/2] Date/Time:	1 17	00	Company	(\dashv	Rece	ived by	p							/O/ Date/Tin		22	1510	Company	ul
tefinquished by:	Date/Time:			Company			Rece	ived by	:						╁	Date/Tin	ne:			Company	
Custody Seals Intact: Custody Seal No.								er Temp	erature	e(s) °C	and O	ther Re	marks	:	_	/		7 -	14 m	1006	
Δ Yes Δ No				Page 1	13 o	of 1	4								6	61		6	1'C T	2006 _{10/}	/14/202

Client: HDR Inc Job Number: 590-18959-1

Login Number: 18959 List Source: Eurofins Spokane

List Number: 1 Creator: Fettig, Riley

Creator. I ettig, Miey		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

Eurofins Spokane



Environment Testing America

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:

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

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

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Chain of Custody	13
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Case Narrative

Client: HDR Inc Job ID: 590-18987-1

Project/Site: Simplot Warden

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 Job ID: 590-18987-1

Project/Site: Simplot Warden

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

Definitions/Glossary

Client: HDR Inc Job ID: 590-18987-1

Project/Site: Simplot Warden

Glossary

DL

Abbreviation	These commonly used abbreviations may or may not be present in this report.							
n	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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDI	Fating at all Data stigns Limits (Discoin)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

Detection Limit (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) Most Probable Number MPN 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 Job ID: 590-18987-1 Project/Site: Simplot Warden Lab Sample ID: 590-18987-1 Client Sample ID: SVE-Soil-Oct15-43Pre1 Date Collected: 10/15/22 12:15 Matrix: Solid Date Received: 10/17/22 15:06 **General Chemistry** Analyte Result Qualifier RL **RL** Unit D Dil Fac Prepared Analyzed Percent Moisture (EPA Moisture) 0.01 0.01 % 10/18/22 07:44 10.3 0.01 0.01 % 10/18/22 07:44 **Percent Solids (EPA Moisture)** 89.7 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 Method: EPA 8011 - EDB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 1,2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.056 0.039 ug/Kg 10/18/22 07:54 10/18/22 12:52 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 **General Chemistry** Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 0.01 0.01 % 10/18/22 07:44 **Percent Moisture (EPA Moisture)** 10.2 0.01 % **Percent Solids (EPA Moisture)** 89.8 0.01 10/18/22 07:44 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 Method: EPA 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 10/18/22 07:54 10/18/22 13:32 1.2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.054 0.038 ug/Kg 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 **General Chemistry** Analyte Result Qualifier RL **RL** Unit D Prepared Analyzed Dil Fac 0.01 0.01 % 10/18/22 07:44 **Percent Moisture (EPA Moisture)** 10.0 **Percent Solids (EPA Moisture)** 90.0 0.01 0.01 % 10/18/22 07:44 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 Method: EPA 8011 - EDB Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 1,2-Dibromoethane (EDB) 0.054 10/18/22 07:54 10/18/22 13:42 ND 0.038 ug/Kg 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

Eurofins Spokane

Analyzed

10/18/22 07:44

RL

0.01

RL Unit

0.01 % D

Prepared

Result Qualifier

12.4

General Chemistry

Percent Moisture (EPA Moisture)

Analyte

Dil Fac

Client Sample Results

Client: HDR Inc Job ID: 590-18987-1

Project/Site: Simplot Warden

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

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 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

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 Prepared Dil Fac Analyzed 1,2-Dibromoethane (EDB) 0.047 10/18/22 07:54 10/18/22 14:06 ND 0.033 ug/Kg

QC Sample Results

Client: HDR Inc Job ID: 590-18987-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38634/2-A

Matrix: Solid

Analysis Batch: 38644

1,2-Dibromoethane (EDB)

1,2-Dibromoethane (EDB)

MB MB

Analyte

Result Qualifier

RL 0.050 ND

MDL Unit 0.035 ug/Kg

Prepared

10/18/22 07:54 10/18/22 12:31

Analyzed

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38634

Prep Type: Total/NA

Prep Batch: 38634

Dil Fac

Lab Sample ID: LCS 590-38634/3-A

Matrix: Solid

Analysis Batch: 38644

Spike Added 1.00

Sample Sample

Sample Sample

Sample Sample

10.3

89.7

Result Qualifier

ND

Result Qualifier

ND

Result Qualifier

Spike

Added

1.11

Spike

Added

1.07

LCS LCS Result Qualifier 1.10

MS MS

MSD MSD

DU DU

10.9

89.1

Result Qualifier

0.832

0.813

Result Qualifier

Unit ug/Kg

Unit

%

D %Rec

110

Client Sample ID: Lab Control Sample

Limits 60 - 140

%Rec

Lab Sample ID: 590-18987-1 MS

Matrix: Solid

Analysis Batch: 38644

Analyte

1,2-Dibromoethane (EDB)

Lab Sample ID: 590-18987-1 MSD

Matrix: Solid Analysis Batch: 38644

Analyte 1,2-Dibromoethane (EDB)

Method: Moisture - Percent Moisture Lab Sample ID: 590-18987-1 DU

Percent Solids

Matrix: Solid Analysis Batch: 38633

Analyte Percent Moisture Client Sample ID: SVE-Soil-Oct15-43Pre1

Prep Type: Total/NA Prep Batch: 38634

%Rec Limits

Unit %Rec ug/Kg

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

Prep Type: Total/NA Prep Batch: 38634

%Rec **RPD**

8.0

%Rec Limits **RPD** Limit ug/Kg 60 - 140 20

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

Prep Type: Total/NA

RPD Result Qualifier Unit D **RPD** Limit % 6 20

Eurofins Spokane

10/18/2022

Job ID: 590-18987-1

Project/Site: Simplot Warden

Client: HDR Inc

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

Dil Batch Ratch Initial Final Batch Prepared Method Factor or Analyzed **Prep Type** Type Run **Amount** Amount Number **Analyst** Lab Total/NA 38633 10/18/22 07:44 M₁V EET SPK Analysis Moisture

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

Batch Batch Dil Initial Final Batch **Prepared Prep Type** Type Method Run **Factor** Amount Amount Number 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 mL 1 mL 38644 10/18/22 12:52 NMI **EET SPK**

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

Batch Dil Initial Final Batch Batch Prepared Method Factor or Analyzed **Prep Type** Type Run **Amount** Amount Number Analyst Lab 38633 10/18/22 07:44 M1V Total/NA Analysis Moisture **EET SPK**

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

Batch Batch Dil Initial Final Batch **Prepared** Method **Amount** Amount Number or Analyzed **Prep Type** Type Run **Factor** Analyst Lab 10/18/22 07:54 M1V 8011 38634 Total/NA Prep 10.38 g 2 mL EET SPK Total/NA Analysis 8011 1 mL 1 mL 38644 10/18/22 13:32 NMI EET SPK 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**

Lab Sample ID: 590-18987-3

Lab Sample ID: 590-18987-4

Batch Batch Dil Initial Final Batch Prepared

Prep Type Type Method Run Factor Amount Amount Number or Analyzed **Analyst** Lab Total/NA Moisture 38633 10/18/22 07:44 M1V EET SPK Analysis

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

Date Collected: 10/15/22 12:21

Matrix: Solid Date Received: 10/17/22 15:06 Percent Solids: 90.0

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run Factor **Amount** Amount Number or Analyzed Analyst Total/NA Prep 8011 10.24 g 2 mL 38634 10/18/22 07:54 M₁V EET SPK 8011 Total/NA Analysis 1 1 ml 1 ml 38644 10/18/22 13:42 NMI **EET SPK**

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

Date Collected: 10/15/22 12:25

Date Received: 10/17/22 15:06

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38633	10/18/22 07:44	M1V	EET SPK

Eurofins Spokane

Page 9 of 14

10/18/2022

Matrix: Solid

Lab Chronicle

Client: HDR Inc Job ID: 590-18987-1

Project/Site: Simplot Warden

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

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

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 Job ID: 590-18987-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	P	rogram	Identification Number	Expiration Date
Washington	S	tate	C569	01-06-23
The following analyte the agency does not	•	ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture	

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Method Summary

Client: HDR Inc Job ID: 590-18987-1

Project/Site: Simplot Warden

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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a a

Phone (509) 924-9200 Phone (509) 924-9290

11922 East 1st Ave

Spokane WA 99206

Client Information

Client Contact:

Company:

Jered Newcomb

Chain of Custody Record

Lab PM: Arrington, Randee E

Randee.Arrington@et.eurofinsus.com

E-Mail:

Sampler Jered Newcomb, JAN TAKCA ICV

PWSID:

509-899-4371

🦓 eurofins |

COC No:

Job#:

Page 1 of 1

Carrier Tracking No(s):

State of Origin:

WA

Environment Testing America

HDR Inc										Ana	alysi	s Re	que	stec	1							
Address ⁻ 835 N Post St. Ste. 101	Due Date Request	ed:																	- 4	Preservation Cod		
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350-10567 Origin of Outstoay					H	1			1	十	\uparrow	\top	1		T			T				
Possible Hazard Identification		<u> </u>	<u> </u>		Ч,	San	nple	Disp	osal	(Af	ee ma	y be	asse	ssec	i if sa	mpl	es are	e reta	<u> </u>	d longer than 1	month)	
Non-Hazard ammable Sillitant Pois	bn B	iown [Radiologica	I			_	eturn		•			Disp							/e For	Months	
Deliverable Requested I II III IV Other (specify)				,	Ī	Spe	cial I	Instru	ction	s/QC	Requ	iirem	ents							· ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
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Relinquished by: TakeAlleN	Date/Time: 10/17/27	105	i nM	Company CTIVIA	Mci	γ.	Recei	ved by:		10	1		-	-			/Time:	١,		1052	Company	٥
Relinquished by:	Date/Time: 0/17/22	150	πην.ε λ	Company Company Company HDR)		Recei	ived by		1//	et.	<u>-</u>					Time:	<u>لام</u> حرم		5.06	Company EE OA	
Retinquished by:	Date/Time:	(1)	<u> </u>	Company	, 	\dashv	Recei	ived by		H	/v/					<u> </u>	/Time:	252		0.00	Company	
Custody Seals Intact: Custody Seal No.						\dashv	Coole	r Temp	peratur	e(s) °(and C	Other F	Remark	s:			^			i		
Δ Yes Δ No				Page 13	3.of	ı	ļ			· \-/ \		2		2	\خ	ě_	IKC	DIL	4	coad	10	/18/202

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 = background as measured by a survey meter.</td N/A
· · · · · · · · · · · · · · · · · · ·
moor.
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.
Samples were received on ice.
Cooler Temperature is acceptable. True
Cooler Temperature is recorded.
COC is present. True
COC is filled out in ink and legible.
COC is filled out with all pertinent information.
Is the Field Sampler's name present on COC?
There are no discrepancies between the containers received and the COC. True
Samples are received within Holding Time (excluding tests with immediate True HTs)
Sample containers have legible labels. True
Containers are not broken or leaking.
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").
Multiphasic samples are not present. True
Samples do not require splitting or compositing.
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

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.

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

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Case Narrative

Client: HDR Inc Job ID: 590-18988-1

Project/Site: Simplot Warden

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 Job ID: 590-18988-1

Project/Site: Simplot Warden

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

Definitions/Glossary

Client: HDR Inc Job ID: 590-18988-1

Project/Site: Simplot Warden

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

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Client Sample Results

Client: HDR Inc Job ID: 590-18988-1 Project/Site: Simplot Warden Lab Sample ID: 590-18988-1 Client Sample ID: SVE-Soil-Oct17-44Pre1 Date Collected: 10/17/22 12:48 Matrix: Solid Date Received: 10/17/22 15:06 **General Chemistry** Analyte RL **RL** Unit D Dil Fac Result Qualifier Prepared Analyzed Percent Moisture (EPA Moisture) 0.01 0.01 % 10/18/22 07:44 10.7 0.01 0.01 % 10/18/22 07:44 **Percent Solids (EPA Moisture)** 89.3 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) $\overline{\mathsf{ND}}$ 0.052 0.037 ug/Kg 10/18/22 07:54 10/18/22 14:14 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 Prepared Analyzed Dil Fac 0.01 0.01 % 10/18/22 07:44 **Percent Moisture (EPA Moisture)** 10.3 0.01 % **Percent Solids (EPA Moisture)** 89.7 0.01 10/18/22 07:44 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 Prepared Analyzed Dil Fac 10/18/22 07:54 10/18/22 14:47 1.2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.055 0.039 ug/Kg 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 0.01 0.01 % 10/18/22 07:44 **Percent Moisture (EPA Moisture)** 9.6 **Percent Solids (EPA Moisture)** 90.4 0.01 0.01 % 10/18/22 07:44 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 Analyzed Dil Fac Prepared 1,2-Dibromoethane (EDB) 0.055 10/18/22 07:54 10/18/22 15:00 ND 0.039 ug/Kg 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)** 0.01 0.01 % 12.4 10/18/22 07:44

Eurofins Spokane

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10/18/2022

Client Sample Results

Client: HDR Inc Job ID: 590-18988-1

Project/Site: Simplot Warden

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

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

Method: EPA 8011 - EDB Analyte Result Qualifier RL **MDL** Unit 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

Client Sample ID: Trip Blank Lab Sample ID: 590-18988-5

Date Collected: 10/17/22 00:00 Date Received: 10/17/22 15:06

Method: EPA 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed 1,2-Dibromoethane (EDB) 0.050 10/18/22 07:54 10/18/22 15:24 ND 0.035 ug/Kg

Percent Solids: 87.6

Matrix: Solid

QC Sample Results

Client: HDR Inc Job ID: 590-18988-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38634/2-A

Matrix: Solid

Matrix: Solid

Analyte

Analysis Batch: 38644

Analysis Batch: 38644

1,2-Dibromoethane (EDB)

MB MB

Result Qualifier

Analyte 1,2-Dibromoethane (EDB)

Lab Sample ID: LCS 590-38634/3-A

0.050 ND

Spike

Added

1.00

MDL Unit RL 0.035 ug/Kg

LCS LCS

1.10

Result Qualifier

Unit

ug/Kg

Prepared 10/18/22 07:54 10/18/22 12:31

D %Rec

110

Prep Type: Total/NA

Prep Batch: 38634

Dil Fac

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38634

%Rec

Analyzed

Limits

Client Sample ID: Method Blank

60 - 140

Job ID: 590-18988-1

Client: HDR Inc

Project/Site: Simplot Warden

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

Date Collected: 10/17/22 12:48 Date Received: 10/17/22 15:06

Lab Sample ID: 590-18988-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/17/22 12:48 Date Received: 10/17/22 15:06

Lab Sample ID: 590-18988-1 **Matrix: Solid**

Percent Solids: 89.3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/17/22 12:51 Date Received: 10/17/22 15:06 Lab Sample ID: 590-18988-2

Lab Sample ID: 590-18988-3

Lab Sample ID: 590-18988-4

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/17/22 12:51 Date Received: 10/17/22 15:06

Lab Sample ID: 590-18988-2 **Matrix: Solid** Percent Solids: 89.7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/17/22 12:54 **Matrix: Solid** Date Received: 10/17/22 15:06

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38633	10/18/22 07:44	M1V	EET SPK

Date Collected: 10/17/22 12:54

Date Received: 10/17/22 15:06

Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38633	10/18/22 07:44	M1V	EET SPK
Client Sam	ple ID: SVE	E-Soil-Oct1	7-44Pre3				L	ab Sample	ID: 590	-18988-3

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

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

Date Collected: 10/17/22 12:57

Date Received: 10/17/22 15:06

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38633	10/18/22 07:44	M1V	EET SPK

Eurofins Spokane

Matrix: Solid

Matrix: Solid

Percent Solids: 90.4

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Lab Chronicle

Client: HDR Inc Job ID: 590-18988-1

Project/Site: Simplot Warden

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 590-18988-5 **Client Sample ID: Trip Blank**

Date Collected: 10/17/22 00:00 **Matrix: Solid**

Date Received: 10/17/22 15:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 Job ID: 590-18988-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	P	rogram	Identification Number	Expiration Date
Washington	S	tate	C569	01-06-23
The following analyte the agency does not		oort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
	5			
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture	

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Method Summary

Client: HDR Inc Job ID: 590-18988-1

Project/Site: Simplot Warden

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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Spokane, WA 99206 Phone (509) 924-9200 Phone (509) 924-9290

11922 East 1st Ave

Chain of Custody Record

 eι	iro	fi	ns

Environment Testing America

Client Information	Jered Newcomb, JAN / Oan & Brooks Arr					PM: ngton Randee E				Carrier Tracking No(s):						COC No:					
Client Contact: Jered Newcomb	Phone: 509-899-4371			NB E	Mail:			n@et.	ourofi	nette	com		State	of Ork	gin:				Page: Page 1 of 1		
Company:	309-699-4371		PWSID:	I.	andee	3.Am	ingio	nwer				_							Job#:		
HDR Inc Address:	Due Date Requests	ıd•			wer.	56900			Τ.	Anai	ysis	Rec	aues T	ited		$\overline{}$,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Preservation Cod	95	
835 N Post St. Ste. 101	·																		A HCL	M Hexane	
City: Spokane	TAT Requested (da	ays): 24 ho	ur																B NaOH C Zn Acetate	N None O AsNaO2	
State, Zip: WA, 99202	Compliance Project: A Yes A No																		D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3	
Phone: 509-899-4371	Po#: Purchase Order Requested																		F MeOH G Amchlor H Ascorbic Acid	R Na2S2O3 S H2SO4 T TSP Dodecahydra	ate
Email: jered.newcomb@hdrinc.com	WO #:				٦ž	3												100	l Ice J DI Water	U Acelone V MCAA	••
Project Name:	Project #:				⊣કુ	5													K EDTA L EDA	W pH 4-5 Z other (specify)	
Simplot Warden Site:	59002373 ssow#:				- 10	8							Ì					contair	Other:		
Warden WA				1 BASTELV	sau	9												্ব			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	W=water S=solid, O=waste/o BT=Tissue A=Air	Filtere	Perform MSMSD (Yes	8011 EDB											Total Number	Special Ins	structions/Note:	
		X	Section between the Company of the C	ation Code	: X	X	N	3300				3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-05-05-01	**************************************			\mathbf{x}			entra de la composición dela composición de la composición de la composición de la composición de la composición de la composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición dela composición de la composición de la composición de la composición dela composición de la composición dela composición dela composi
SVE-Soil-Oct 17 -44Pre1	10/17 /2022	12.48	G	S	N	N	х											1			
SVE-Soil-Oct 17 -44Pre2	10/ 17/2022	12 51	G	s	N	N	Х											1			
SVE-Soil-Oct √1 -44Pre3	10/ 17 /2022	12/54	G	s	N	N	Х											1			
SVE-Soil-Oct \1 -44Pre4	10/17/2022	12 57	G	s	N	Ν	Х											1			
Trip Blank				s	N	N	Х											1		•	
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									-	590 <u>-</u>	1898	8 Ch	aln of	Cus	ody						
Possible Hazard Identification			<u> </u>			Sar	$\overline{}$				maj		ı				are I		ed longer than 1	month)	
Non-Hazard ammable Salitant Pois Deliverable Requested. I, II III, IV Other (specify)	bn B ∟ln	own L	Radiologica	al .		C=-		eturn i						sal B	y Lat)		_Arch	nive For	Months	
						Spe	eciai	Instruc	aions	IQU F	cequi	reme									
Empty Kit Relinquished by:		Date:				me:								Metho		hipme					
Relinguished by:	Date/Time: 0/ 7/↓〕	15,	06	Company [-	PP		Recei	iyed by								Date/ 0	me: //)Ī	1500	Company	
Relinquished by:	Date/Time:			Company		Received by:					Date/Time:						Company				
Relinquished by:	Date/Time:			Company			Recei	ived by:								Date/Ti	me:			Company	
Custody Seals Intact: Custody Seal No.	I				4.0		Coole	or Temp	erature	(s) °C á	and Ol	her Re	marks	100	אמ	- C	<u>^</u>	id		10/10/0	

Client: HDR Inc Job Number: 590-18988-1

Login Number: 18988 List Source: Eurofins Spokane

List Number: 1 Creator: Fettig, Riley

QuestionAnswerCommentRadioactivity wasn't checked or is = background as measured by a survey meter.</td N/AThe cooler's custody seal, if present, is intact.N/ASample custody seals, if present, are intact.N/AThe cooler or samples do not appear to have been compromised or tampered with.TrueSamples were received on ice.TrueCooler Temperature is acceptable.TrueCooler Temperature is recorded.TrueCOC is present.TrueCOC is filled out in ink and legible.TrueCOC is filled out with all pertinent information.TrueIs the Field Sampler's name present on COC?True
meter. The cooler's custody seal, if present, is intact. Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. True Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC?
Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. True Cooler Temperature is acceptable. True CoC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC?
The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. 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. Is the Field Sampler's name present on COC?
tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True
Cooler Temperature is acceptable. Cooler Temperature is recorded. True COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. It is the Field Sampler's name present on COC? True
Cooler Temperature is recorded. COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True
COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True
COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True
COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True
Is the Field Sampler's name present on COC?
·
T
There are no discrepancies between the containers received and the COC. True
Samples are received within Holding Time (excluding tests with immediate True HTs)
Sample containers have legible labels. True
Containers are not broken or leaking.
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").
Multiphasic samples are not present.
Samples do not require splitting or compositing.
Residual Chlorine Checked. N/A

Eurofins Spokane



Environment Testing America

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:

Randee Arrington, Lab Director (509)924-9200

Randee.Arrington@et.eurofinsus.com

10/20/2022 3:53:02 PM

----- LINKS -----**Review your project** results through EOL **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

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

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

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Case Narrative

Client: HDR Inc Job ID: 590-19011-1

Project/Site: Simplot Warden

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.

Sample Summary

Client: HDR Inc Job ID: 590-19011-1

Project/Site: Simplot Warden

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 Job ID: 590-19011-1

Project/Site: Simplot Warden

Glossary

MPN

MQL

NC

ND

NEG

POS

PQL

QC RER

RL

RPD TEF

TEQ

TNTC

PRES

Most Probable Number

Negative / Absent

Positive / Present

Presumptive Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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)

Method Quantitation Limit
Not Calculated

Job ID: 590-19011-1

Matrix: Solid

Matrix: Solid

Project/Site: Simplot Warden

Client: HDR Inc

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

Date Collected: 10/19/22 12:47 Date Received: 10/19/22 15:00

Lab Sample ID: 590-19011-1

Matrix: Solid

D Prepared	Analyzed	Dil Fac
	10/20/22 08:10	1
	10/20/22 08:10	1
_	Prepared	10/20/22 08:10

Client Sample ID: SVE-Soil-Oct19-45Pre1 Lab Sample ID: 590-19011-1

Date Collected: 10/19/22 12:47 Date Received: 10/19/22 15:00

Matrix: Solid Percent Solids: 89.3

Method: EPA 8011 - EDB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac ₩ 1,2-Dibromoethane (EDB) 0.055 0.038 10/20/22 08:22 10/20/22 10:34 ND ug/Kg

Client Sample ID: SVE-Soil-Oct19-45Pre2 Lab Sample ID: 590-19011-2

Date Collected: 10/19/22 12:50 Date Received: 10/19/22 15:00

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

Client Sample ID: SVE-Soil-Oct19-45Pre2 Lab Sample ID: 590-19011-2

Date Collected: 10/19/22 12:50 Date Received: 10/19/22 15:00

Percent Solids: 90.4 Method: EPA 8011 - EDB

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

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 RLDil Fac RL Unit D Prepared Analyzed 0.01 **Percent Moisture (EPA Moisture)** 11.6 0.01 % 10/20/22 08:10 0.01 10/20/22 08:10 **Percent Solids (EPA Moisture)** 88.4 0.01 %

Client Sample ID: SVE-Soil-Oct19-45Pre3 Lab Sample ID: 590-19011-3

Date Collected: 10/19/22 12:54 Date Received: 10/19/22 15:00

Matrix: Solid 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

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 Job ID: 590-19011-1

Project/Site: Simplot Warden

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

Date Collected: 10/19/22 12:58

Matrix: Solid

Lab Sample ID: 590-19011-4

Date Received: 10/19/22 15:00

General Chemistry (Continued)

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

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 10/20/22 08:22 10/20/22 11:55 0.039 ug/Kg

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 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

QC Sample Results

Client: HDR Inc Job ID: 590-19011-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38674/2-A

Matrix: Solid

Analysis Batch: 38675

MB MB

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

0.940

Result

1.08

MSD MSD

Qualifier

ug/Kg

Unit

ug/Kg

D

Ö

%Rec

Lab Sample ID: LCS 590-38674/3-A

Matrix: Solid

Analysis Batch: 38675

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

1.11

Spike

Added

1.12

Lab Sample ID: 590-19011-1 MS

Matrix: Solid

Analysis Batch: 38675

1,2-Dibromoethane (EDB)

MS MS Sample Sample Spike Result Qualifier Added Result Qualifier Unit

ND

Sample Sample

Result Qualifier

Lab Sample ID: 590-19011-1 MSD

Matrix: Solid

Analyte

Analysis Batch: 38675

1,2-Dibromoethane (EDB) ND **Method: Moisture - Percent Moisture**

Lab Sample ID: 590-19011-1 DU

Matrix: Solid

Analysis Batch: 38673

Sample Sample DU DU Analyte Result Qualifier Qualifier Result Unit Percent Moisture 10.7 11.6 % Percent Solids 89.3 88.4 %

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 38674

14

Prep Batch: 38674

Prep Batch: 38674

Prep Batch: 38674

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

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

%Rec

Limits

60 - 140

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

%Rec

Limits

60 - 140

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

RPD

Limit

20

RPD

Limit

Eurofins Spokane

10/20/2022

Project/Site: Simplot Warden

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

Date Collected: 10/19/22 12:47 Date Received: 10/19/22 15:00 Lab Sample ID: 590-19011-1

Matrix: Solid

Job ID: 590-19011-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/19/22 12:47

Date Received: 10/19/22 15:00

l ah	Sample	ID:	590-19011-1

Matrix: Solid Percent Solids: 89.3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/19/22 12:50

Date Received: 10/19/22 15:00

Lab Sample ID:	590-19011-2
	Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/19/22 12:50

Date Received: 10/19/22 15:00

Lab Sample ID: 590-19011-2

Matrix: Solid Percent Solids: 90.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/19/22 12:54	Matrix: Solid
Date Received: 10/19/22 15:00	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/19/22 12:54

Date Received: 10/19/22 15:00

Lab Sample ID: 590-19011-3

Lab Sample ID: 590-19011-4

Lab Sample ID: 590-19011-3

Matrix: Solid Percent Solids: 88.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/19/22 12:58

Date Received: 10/19/22 15:00

Bato Hoodiloai 10	10/22 10/00									
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38673	10/20/22 08:10	M1V	EET SPK

Eurofins Spokane

Matrix: Solid

Lab Chronicle

Client: HDR Inc Job ID: 590-19011-1

Project/Site: Simplot Warden

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

Date Collected: 10/19/22 12:58

Matrix: Solid

Lab Sample ID: 590-19011-4

Date Received: 10/19/22 15:00 Percent Solids: 84.8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 10/19/22 15:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Job ID: 590-19011-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	F	Program	Identification Number	Expiration Date	
Washington		State	C569	01-06-23	
The following analytes the agency does not of	' '	out the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for whic	
Analysis Method	Prep Method	Matrix	Analyte		
,a., o.oo		TTT-CALL DA	Allalyte		
Moisture		Solid	Percent Moisture		

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Method Summary

Client: HDR Inc Job ID: 590-19011-1

Project/Site: Simplot Warden

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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Chain of Custody Record

🐝 eurotins

Environment Testing

Spokane,	WA 99206		
Phone (50)	9) 924-9200	Phone (509)	924-9290

Client Information						Lab PM: Arrington, Randee E					Ca	Carner Tracking No(s):					COC No;		
Client Contact: Jered Newcomb	Phone: 509-899-4371		,	E	-Mail: landee	e.Arr	inato	on@et.e	urofin	sus.co	m	St. W	ate of C	Origin:				Page: Page 1 of 1	
Company: HDR Inc			PWSID:		Ī				Analysis Requested										
Address: 835 N Post St. Ste. 101	Due Date Requeste		-	2			T									Preservation Cod	les.		
City:	TAT Requested (d:	-													A HCL B NaOH	M Hexane N None			
Spokane State, Zip:		24 ho				1.64.6												C Zn Acetate D Nitric Acid	O AsNaO2 P Na2O4S
WA, 99202 Phone:	Compliance Project PO #:	ct: A Yes	7 No		_													E NaHSO4 F MeOH	Q Na2SO3 R Na2S2O3
509-899-4371	Purchase Order	Requested			_ <u> </u> §						l							G Amchlor H Ascorbic Acid	S H2SO4 T TSP Dodecahydrate
Email: jered.newcomb@hdrinc.com	WO #:				٥	or No)					-						2	I Ice J DI Water	V MCAA
Project Name: Simplot Warden	Project #: 59002373				ైక్టి												containe	K EDTA L EDA	W pH 4-5 Z alher (specify)
Site: Warden WA	SSOW#:				amp	ω O											of con		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	(W=water S=solid, O=wastero BT=Tissue A=Air)	Filtere	Perform MS/MSD (Yes	8011 EDB										Total Number o		structions/Note:
		> <		ation Code	: X		N										X		
SVE-Soil-Oct 1-45Pre1	10/ \ ⁰ /2022	1247	G	s	N	Ν	Х										1		
SVE-Soil-Oct 9 -45Pre2	10/ 1/2022	12 50	G	S	N	N	х										1		
SVE-Soil-Oct 19-45Pre3	10/ 9 /2022	12 54	G	S	N	N	Х										1		
SVE-Soil-Oct \9-45Pre4	10/19 /2022	12 58	G	S	N	N	Х										1		
Trip Blank				S	N	Ν	х										1		
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																_			
							Γ					Custo							
							Γ	, 590	1.1901 1-1901	1 Cha	in of	Custo	ody	1	····	1			
ossible Hazard Identification						Sar	$\overline{}$				ay b					s are i	_	ed longer than 1	-
Non-Hazard ammable Si itant Pois Deliverable Requested: I II III, IV Other (specify)	Poison Bnown Radiological					Spe		Return To Instruct			uire		osal	By La	ab		_Arch	hive For	Months
Empty Kit Relinquished by	Date:				ITi	me:								hod of	Shipme	ent:	—		
Relinquished by:	Date/Time: Company				.,,	Rece	eived hy			101				Date/Time:			۱٬۸۸۸ مسرو	Company	
Relinquished by:	10/19/22 15100 HOR Date/Time: Company			Received by:			2	Date/Time:				<u>~</u>	18.00	Company					
Relinquished by:	Date/Time: Comp								Dale/Time:					Company					
								Received by: Cooler Temperature(s) °C and Other Rer										10/20/202	
Custody Seals Intact: Custody Seal No.						י וע	Cool	er Temper	ature(s)	°C and 2	Other	Remar	ks: 2.	A 2 K	col	d	lo	05	10/20/202

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Job Number: 590-19011-1

Client: HDR Inc

Login Number: 19011 List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

ordator. Yaughan, madison r		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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 America

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:

Randee Arrington, Lab Director (509)924-9200

10/24/2022 3:56:52 PM

Randee.Arrington@et.eurofinsus.com

tarque tringter

Review your project results through EO L.

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

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Case Narrative

Client: HDR Inc Job ID: 590-19042-1

Project/Site: Simplot Warden

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.

Sample Summary

Client: HDR Inc Job ID: 590-19042-1

Project/Site: Simplot Warden

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 Job ID: 590-19042-1

Project/Site: Simplot Warden

Glossary

DL

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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, 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)

Detection Limit (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) Most Probable Number MPN 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

RL

0.01

RL Unit

0.01 % D

Prepared

Result Qualifier

10.8

Client: HDR Inc

Project/Site: Simplot Warden

Date Collected: 10/21/22 12:05

Date Received: 10/21/22 15:36

Percent Moisture (EPA Moisture)

General Chemistry

Analyte

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

Job ID: 590-19042-1

Matrix: Solid

Dil Fac

Lab Sample ID: 590-19042-1

Analyzed

10/24/22 09:10

referrit worsture (EFA worsture)	10.0		0.01	0.01	/0			10/24/22 09.10	
Percent Solids (EPA Moisture)	89.2		0.01	0.01	%			10/24/22 09:10	1
Client Sample ID: SVE-Soil-	-Oct21-4	6Pre1				L	ab Sample	e ID: 590-19	042-1
Date Collected: 10/21/22 12:05									: Solid
Date Received: 10/21/22 15:36								Percent Solid	
-									
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-	-Oct21-4	6Pre2				L	ab Sample	D: 590-19	042-2
Date Collected: 10/21/22 12:07								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)	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
- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		0D 0					-l- O '	ID: 500 40	0.40.0
Client Sample ID: SVE-Soil-	-Uct21-4	6Pre2				L	ab Sample	e ID: 590-19	
Date Collected: 10/21/22 12:07									: Solid
Date Received: 10/21/22 15:36									s: 87.4
								Percent Solid	
Method: EPA 8011 - EDB							<u>'</u>	Percent Solid	
_	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-	ND	<u> </u>	RL 0.056		Unit ug/Kg	-	Prepared 10/24/22 08:38	Analyzed 10/24/22 10:51	Dil Fac
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil- Date Collected: 10/21/22 12:09	ND	<u> </u>				-	Prepared 10/24/22 08:38	Analyzed 10/24/22 10:51	Dil Fac
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil- Date Collected: 10/21/22 12:09	ND - Oct21-4	6Pre3	0.056	0.039	ug/Kg	-	Prepared 10/24/22 08:38	Analyzed 10/24/22 10:51	Dil Fac
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte	ND -Oct21-4	<u> </u>	0.056	0.039	ug/Kg Unit	-	Prepared 10/24/22 08:38	Analyzed 10/24/22 10:51 PID: 590-19 Matrix Analyzed	Dil Fac
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture)	ND -Oct21-4 -Result 11.3	6Pre3	0.056	0.039 RL 0.01	ug/Kg Unit %	L	Prepared 10/24/22 08:38 ab Sample	Analyzed 10/24/22 10:51 PiD: 590-19 Matrix	Dil Fac 1 042-3 :: Solid
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte	ND -Oct21-4	6Pre3	0.056	0.039	ug/Kg Unit %	L	Prepared 10/24/22 08:38 ab Sample	Analyzed 10/24/22 10:51 PID: 590-19 Matrix Analyzed	Dil Fac
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture)	Result 11.3 88.7	6Pre3	0.056 RL 0.01	0.039 RL 0.01	ug/Kg Unit %	<u></u>	Prepared 10/24/22 08:38 ab Sample Prepared	Analyzed 10/24/22 10:51 PID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10	Dil Fac 1 042-3 :: Solid Dil Fac 1
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Client Sample ID: SVE-Soil-	Result 11.3 88.7	6Pre3	0.056 RL 0.01	0.039 RL 0.01	ug/Kg Unit %	<u></u>	Prepared 10/24/22 08:38 ab Sample Prepared	Analyzed 10/24/22 10:51 P ID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 P ID: 590-19	Dil Fac 1 042-3 :: Solid Dil Fac 1
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09	Result 11.3 88.7	6Pre3	0.056 RL 0.01	0.039 RL 0.01	ug/Kg Unit %	<u></u>	Prepared 10/24/22 08:38 ab Sample Prepared	Analyzed 10/24/22 10:51 P ID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 P ID: 590-19	Dil Fac 1 0042-3 :: Solid Dil Fac 1 1 0042-3 :: Solid
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36	Result 11.3 88.7	6Pre3	0.056 RL 0.01	0.039 RL 0.01	ug/Kg Unit %	<u></u>	Prepared 10/24/22 08:38 ab Sample Prepared	Analyzed 10/24/22 10:51 P ID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 P ID: 590-19 Matrix	Dil Fac 1 0042-3 :: Solid Dil Fac 1 1 0042-3 :: Solid
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 Method: EPA 8011 - EDB	Result 11.3 88.7	6Pre3 Qualifier 6Pre3	0.056 RL 0.01 0.01	0.039 RL 0.01 0.01	Unit %		Prepared 10/24/22 08:38 ab Sample Prepared ab Sample	Analyzed 10/24/22 10:51 P ID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 P ID: 590-19 Matrix Percent Solid	Dil Fac 1 042-3 :: Solid Dil Fac 1 1 042-3 :: Solid :: Solid :: Solid s: 88.7
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 Method: EPA 8011 - EDB Analyte	Result 11.3 88.7 -Oct21-4	6Pre3	0.056 RL 0.01 0.01	RL 0.01 0.01	Unit %		Prepared 10/24/22 08:38 ab Sample Prepared Prepared	Analyzed 10/24/22 10:51 PID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 PID: 590-19 Matrix Percent Solid Analyzed	Dil Fac 10042-3 :: Solid Dil Fac 10042-3 :: Solid :: Solid s: 88.7
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 Method: EPA 8011 - EDB	Result 11.3 88.7	6Pre3 Qualifier 6Pre3	0.056 RL 0.01 0.01	RL 0.01 0.01	Unit %		Prepared 10/24/22 08:38 ab Sample Prepared Prepared	Analyzed 10/24/22 10:51 P ID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 P ID: 590-19 Matrix Percent Solid	Dil Fac 1 042-3 :: Solid Dil Fac 1 1 042-3 :: Solid :: Solid :: Solid s: 88.7
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	Result 11.3 88.7 -Oct21-4	Qualifier Qualifier Qualifier	0.056 RL 0.01 0.01	RL 0.01 0.01	Unit %		Prepared 10/24/22 08:38 ab Sample Prepared Prepared 10/24/22 08:38	Analyzed 10/24/22 10:51 PID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 PID: 590-19 Matrix Percent Solid Analyzed	Dil Fac 1 042-3 :: Solid Dil Fac 1 1 042-3 :: Solid s: 88.7
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Dibromoethane (EDB)	Result 11.3 88.7 -Oct21-4	Qualifier Qualifier Qualifier	0.056 RL 0.01 0.01	RL 0.01 0.01	Unit %		Prepared 10/24/22 08:38 ab Sample Prepared Prepared 10/24/22 08:38	Analyzed 10/24/22 10:51 PID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 Percent Solid Analyzed 10/24/22 11:40 Percent S90-19	Dil Fac 1 042-3 :: Solid Dil Fac 1 1 042-3 :: Solid s: 88.7
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Date Collected: 10/21/22 12:09 Date Received: 10/21/22 12:09 Date Received: 10/21/22 15:36 Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:11	Result 11.3 88.7 -Oct21-4	Qualifier Qualifier Qualifier	0.056 RL 0.01 0.01	RL 0.01 0.01	Unit %		Prepared 10/24/22 08:38 ab Sample Prepared Prepared 10/24/22 08:38	Analyzed 10/24/22 10:51 PID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 Percent Solid Analyzed 10/24/22 11:40 Percent S90-19	Dil Fac 1 042-3 :: Solid 1 042-3 :: Solid s: 88.7 Dil Fac 1 042-4
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:11 Date Received: 10/21/22 15:36	Result 11.3 88.7 -Oct21-4	Qualifier Qualifier Qualifier	0.056 RL 0.01 0.01	RL 0.01 0.01	Unit %		Prepared 10/24/22 08:38 ab Sample Prepared Prepared 10/24/22 08:38	Analyzed 10/24/22 10:51 PID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 Percent Solid Analyzed 10/24/22 11:40 Percent S90-19	Dil Fac 1 042-3 :: Solid 1 042-3 :: Solid s: 88.7 Dil Fac 1 042-4
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:11 Date Received: 10/21/22 15:36 General Chemistry	Result 11.3 88.7 -Oct21-4 Result ND	Qualifier Qualifier Qualifier 6Pre4	RL 0.01 0.054	RL 0.01 0.01 0.038	Unit wg/Kg		Prepared 10/24/22 08:38 ab Sample Prepared Prepared 10/24/22 08:38 ab Sample	Analyzed 10/24/22 10:51 PiD: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 Percent Solid Analyzed 10/24/22 11:40 PiD: 590-19 Matrix Analyzed 10/24/22 11:40 PiD: 590-19 Matrix	Dil Fac 1 042-3 :: Solid Dil Fac 1 1 042-3 :: Solid s: 88.7 Dil Fac 1 042-4 :: Solid
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36 Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-Date Collected: 10/21/22 12:11 Date Received: 10/21/22 12:11 Date Received: 10/21/22 15:36	Result 11.3 88.7 -Oct21-4 Result ND	Qualifier Qualifier Qualifier	0.056 RL 0.01 0.01	RL 0.01 0.01 0.038	Unit wg/Kg Unit ug/Kg		Prepared 10/24/22 08:38 ab Sample Prepared Prepared 10/24/22 08:38	Analyzed 10/24/22 10:51 PID: 590-19 Matrix Analyzed 10/24/22 09:10 10/24/22 09:10 Percent Solid Analyzed 10/24/22 11:40 Percent S90-19	Dil Fac 1 042-3 :: Solid 1 042-3 :: Solid s: 88.7 Dil Fac 1 042-4

Client Sample Results

Client: HDR Inc Job ID: 590-19042-1

Project/Site: Simplot Warden

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

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 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

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 Dil Fac Prepared Analyzed **Percent Moisture (EPA Moisture)** 10.7 0.01 0.01 % 10/24/22 09:10 **Percent Solids (EPA Moisture)** 89.3 0.01 0.01 % 10/24/22 09:10

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 Result Qualifier Analyte

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

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 RLMDL Unit Prepared Analyzed 0.047 1,2-Dibromoethane (EDB) ND 0.033 ug/Kg 10/24/22 08:38 10/24/22 12:28

QC Sample Results

Client: HDR Inc Job ID: 590-19042-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38719/2-A

Matrix: Solid

Analysis Batch: 38721

Prep Type: Total/NA

Prep Batch: 38719

Prep Batch: 38719

Client Sample ID: Method Blank

MB MB

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

Lab Sample ID: LCS 590-38719/3-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Prep Batch: 38719

Analysis Batch: 38721 Spike LCS LCS

%Rec Limits Analyte Added Result Qualifier Unit D %Rec

1.00 0.995 60 - 140 1,2-Dibromoethane (EDB) ug/Kg 100

Lab Sample ID: 590-19042-2 MS Client Sample ID: SVE-Soil-Oct21-46Pre2 Prep Type: Total/NA

Matrix: Solid Analysis Batch: 38721

Prep Batch: 38719 Sample Sample Spike MS MS

%Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,2-Dibromoethane (EDB) ND 1.13 0.914 ug/Kg

Lab Sample ID: 590-19042-2 MSD Client Sample ID: SVE-Soil-Oct21-46Pre2 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 38721

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

Method: Moisture - Percent Moisture

Lab Sample ID: 590-19042-2 DU Client Sample ID: SVE-Soil-Oct21-46Pre2 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 38720

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

Eurofins Spokane

Job ID: 590-19042-1

Project/Site: Simplot Warden

Client: HDR Inc

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/21/22 12:07 Date Received: 10/21/22 15:36 Lab Sample ID: 590-19042-2

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

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/21/22 12:09

Date Receive	d: 10/21/22	15:36									
	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	

Total/NA Analysis 38720 10/24/22 09:10 M1V Moisture Client Sample ID: SVE-Soil-Oct21-46Pre3

Lab Sample ID: 590-19042-3

Lab Sample ID: 590-19042-4

Lab Sample ID: 590-19042-3

Matrix: Solid Percent Solids: 88.7

Matrix: Solid

EET SPK

Date Collected: 10/21/22 12:09 Date Received: 10/21/22 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/21/22 12:11

Date Received: 10/21/22 15:36

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38720	10/24/22 09:10	M1V	EET SPK

Eurofins Spokane

Matrix: Solid

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10/24/2022

Lab Chronicle

Client: HDR Inc Job ID: 590-19042-1

Project/Site: Simplot Warden

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

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

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

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Method **Amount Amount** Number or Analyzed Type Run **Factor** Analyst Lab Total/NA Analysis Moisture 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

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

Duan Tana	Batch	Batch	Dom	Dil	Initial	Final	Batch	Prepared	8 1 4	Lab
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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	FFT SPK

Laboratory References:

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

Eurofins Spokane

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-19042-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	P	rogram	Identification Number	Expiration Date
Washington	S	tate	C569	01-06-23
The following analyte the agency does not	•	ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture	

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Method Summary

Client: HDR Inc Job ID: 590-19042-1

Project/Site: Simplot Warden

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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Phone (509) 924-9200 Phone (509) 924-9290

Spokane, WA 99206

Chain of Custody Record

💸 eurofins

Environment Testing America

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Client Information	Sampler Jered Newcomb	o. JAN /			ab PM: tringto	n. R	ande	еE					Carrier	racking	No(s):			COC,No:			
Client Contact:	Phone:	,		E	-Mail:								State of	Origin:				Page:			
Jered Newcomb Company:	509-899-4371		PWSID:	I R	andee	e.Arm	ngtor	ı@et.					WA					Page 1 of	1		
HDR Inc						840000			/	Ana	lysis	Rec	ueste	d			- 1				_
Address. 835 N Post St. Ste 101	Due Date Requests	id																Preservati A HCL	on Cod	des M. Hexan	
City: Spokane	TAT Requested (da	ys): 24 ho	ur															B NaOH C Zn Acel		N None O AsNaC	D2
State, Zip: WA, 99202	Compliance Projec	t: A Yes	A No					l										D Nitric Ad E NaHSO F MeOH		P Na2O4 Q Na2S0 R Na2S2	O3
Phone: 509-899- 4 371	PO#: Purchase Order	Requested			ြ													G Amchlo H Ascorbi		S H2SO4	
Email: lered.newcomb@hdrinc.com	WO #:				o.	3											30	l ice J Di Wale	r	U Acetor V MCAA	
Project Name: Simplot Warden	Project #: 59002373				يق	ŏ											Zine	K EDTA L EDA		W pH 4-5 Z other (s	
Sile: Warden WA	ssow#:					ω os											fcon	Other [,]			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G≖grab)	(W=water S=solid, O=wastero BT=Tissu- A=Air)	Field Filtere	Parform MS/N	8011 EDB										Total Number o	Spe	ecial In	estruction	ıs/Note
				ation Code			N	-‡	, .	+	<u> </u>			.,		l l	- X	200000000000000000000000000000000000000			Continue of the second
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Custody Seals Intact. Custody Seal No.		, 		Page	13 o	f 1	Cooler	Temp	eralure	(s) °C	and Ot	her Re	marks:	•	5.2	200	10	11 King	2 001	6 1	 10/24/202

Client: HDR Inc Job Number: 590-19042-1

Login Number: 19042 List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

oroator. Vaugnari, maaroon r		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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 America

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

Cardut Timington

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.

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

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Case Narrative

Client: HDR Inc Job ID: 590-19064-1

Project/Site: Simplot Warden

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 Job ID: 590-19064-1

Project/Site: Simplot Warden

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 Job ID: 590-19064-1

Project/Site: Simplot Warden

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**

Detection Limit (DoD/DOE) DL

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 MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** 0C

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 Job ID: 590-19064-1 Project/Site: Simplot Warden Lab Sample ID: 590-19064-1 Client Sample ID: SVE-Soil-Oct23-47Pre1 Date Collected: 10/23/22 11:17 Matrix: Solid Date Received: 10/25/22 16:10 **General Chemistry** Analyte RL **RL** Unit D Dil Fac Result Qualifier Prepared Analyzed Percent Moisture (EPA Moisture) 0.01 0.01 % 10/26/22 09:46 10.1 0.01 0.01 % 10/26/22 09:46 **Percent Solids (EPA Moisture)** 89.9 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 10/26/22 08:21 10/26/22 11:20 1,2-Dibromoethane (EDB) ND 0.056 0.039 ug/Kg 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 Prepared Analyzed Dil Fac 0.01 0.01 % 10/26/22 09:46 **Percent Moisture (EPA Moisture)** 10.5 0.01 % **Percent Solids (EPA Moisture)** 89.5 0.01 10/26/22 09:46 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 Prepared Analyzed Dil Fac 10/26/22 08:21 10/26/22 12:09 1.2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.054 0.038 ug/Kg 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 0.01 0.01 % 10/26/22 09:46 **Percent Moisture (EPA Moisture)** 10.6 **Percent Solids (EPA Moisture)** 89.4 0.01 0.01 % 10/26/22 09:46 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 Analyzed Dil Fac Prepared 10/26/22 08:21 10/26/22 12:25 1,2-Dibromoethane (EDB) 0.053 ND 0.037 ug/Kg 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**

Eurofins Spokane

10/26/2022

Dil Fac

Analyzed

10/26/22 09:46

RL

0.01

RL Unit

0.01 %

D

Prepared

Result Qualifier

10.4

Analyte

Percent Moisture (EPA Moisture)

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Client Sample Results

Client: HDR Inc Job ID: 590-19064-1

Project/Site: Simplot Warden

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

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

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 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

Client Sample ID: Trip Blank

Date Collected: 10/23/22 00:00

Date Received: 10/25/22 16:10

Method: EPA 8011 - EDB

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

Lab Sample ID: 590-19064-4

Lab Sample ID: 590-19064-5

Matrix: Solid

QC Sample Results

Client: HDR Inc Job ID: 590-19064-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38758/2-A

Matrix: Solid

Analysis Batch: 38772

MB MB

Result Qualifier Analyte 1,2-Dibromoethane (EDB)

RL 0.050 ND

MDL Unit

0.035 ug/Kg

Prepared

10/26/22 08:21 10/26/22 10:48

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

Prep Batch: 38758

Prep Type: Total/NA

Prep Batch: 38758

Dil Fac

Lab Sample ID: LCS 590-38758/3-A

Matrix: Solid

Analysis Batch: 38772

1,2-Dibromoethane (EDB)

Spike Added 1.00 LCS LCS 1.13

MS MS

Result Qualifier

Unit D %Rec ug/Kg

60 - 140 113

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

%Rec

Client Sample ID: Lab Control Sample

Limits

Lab Sample ID: 590-19064-1 MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 38772

Analyte

1,2-Dibromoethane (EDB)

Sample Sample Spike Result Qualifier ND

Added 1.08

0.889

Result Qualifier Unit ug/Kg

D %Rec

60 - 140

%Rec

Limits

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

Prep Type: Total/NA

Prep Batch: 38758

Prep Type: Total/NA Prep Batch: 38758

RPD

Limit

20

Analysis Batch: 38772

1,2-Dibromoethane (EDB)

Analyte

Method: Moisture - Percent Moisture

Lab Sample ID: 590-19064-1 MSD

Spike Sample Sample Result Qualifier Added ND 1.07

89.9

MSD MSD Result Qualifier 0.941

DU DU

10.8

89.2

Result Qualifier

Unit ug/Kg

Unit

%

%

%Rec

D

%Rec Limits **RPD** 60 - 140

Lab Sample ID: 590-19064-1 DU **Matrix: Solid**

Analyte

Percent Solids

Analysis Batch: 38766

Sample Sample Result Qualifier Percent Moisture 10.1

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

RPD RPD Limit 20 8.0 20

Eurofins Spokane

Client: HDR Inc Project/Site: Simplot Warden

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

Lab Sample ID: 590-19064-1

Date Collected: 10/23/22 11:17 Date Received: 10/25/22 16:10 **Matrix: Solid**

Job ID: 590-19064-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 10/25/22 16:10

Matrix: Solid Percent Solids: 89.9

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 10/25/22 16:10

Matrix: Solid

Batch Batch Dil Initial Final **Batch** Prepared **Prep Type** Method Factor Amount Number or Analyzed Type Run **Amount Analyst** Lab Total/NA Moisture 38766 10/26/22 09:46 M1V EET SPK Analysis

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

Lab Sample ID: 590-19064-2 **Matrix: Solid**

Date Collected: 10/23/22 11:22 Date Received: 10/25/22 16:10

Percent Solids: 89.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 10/25/22 16:10

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture					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 Date Received: 10/25/22 16:10

Matrix: Solid Percent Solids: 89.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 **Matrix: Solid**

Date Collected: 10/23/22 13:33 Date Received: 10/25/22 16:10

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Moisture 38766 10/26/22 09:46 EET SPK Analysis M1V

Eurofins Spokane

Lab Chronicle

Client: HDR Inc Job ID: 590-19064-1

Project/Site: Simplot Warden

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 590-19064-5 **Client Sample ID: Trip Blank**

Matrix: Solid

Date Collected: 10/23/22 00:00 Date Received: 10/25/22 16:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 Job ID: 590-19064-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	P	rogram	Identification Number	Expiration Date
Washington	S	tate	C569	01-06-23
The following analyte the agency does not	•	ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture	

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Method Summary

Client: HDR Inc Job ID: 590-19064-1

Project/Site: Simplot Warden

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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Spokane WA 99206

Chain of Custody Record

🦓 eurofins

Environment Testing America

Phone (509) 924-9200 Phone (509) 924-9290																					, ,,,,,,,,,	
Client Information	Sampler Jered Newcom	b, JAN /\(\overline{\mathcal{\moderation}\end{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\moderation}\end{\mathcal{\mathcal{\moderation}\end{\mathcal{\moderation}\end{\mathcal{\moderation}\end{\mathcal{\moderation}\end{\mathcal{\moderation}\end{\mathcal{\moderation}\end{\mathcal{\moderation}\end{\mathcal{\moderation}\end{\mathcal{\moderation}\end{\mathcal{\moderation}\end{\mathcal{\moderation}\end{\moderation}\moderati	.Ke Allen	. L	ab PM: Arringt	: lon, F	Rand	dee E					С	arrier T	racking	No(s):			Cf	OC No:		
Client Contact: Jered Newcomb	Phone: 509-899-4371			E	-Mail: Rande					rofins	us.co	m		late of VA	Origin:	-	-			age: age 1 of 1		
Company: HDR Inc			PWSID:							Aı	nalys	is R	eau	este	d				Je	ob #:		
Address. 835 N Post St. Ste. 101	Due Date Request	ed:			~						ĺ									reservation Cod	es	
City: Spokane	TAT Requested (d	ays): 24 ho	our																B	N HCL NaOH Zn Acetate	M Hexan N None O AsNaC	D2
State, Zip: WA, 99202	Compliance Proje	ct: A Yes	ΔNo										i						E	Nitric Acid NaHSO4 MeOH	P Na2O4 Q Na2SC R Na2S2	D3
Phone: 509-899-4371	PO#: Purchase Orde	r Requested	j			3													G	Amchlor Ascorbic Acid	S H2SO4	
Email: jered.newcomb@hdrinc.com	wo#: <i>Q</i> _				Š	(OV 20												2	j	lce DI Water	U Aceton V MCAA	
Project Name: Simplot Warden	Project #: 50002373	03.316	د ع		<u>ک</u>													ntaine		EDTA EDA	W pH 4-5 Z other (s	
Site: Warden WA	SSOW#:				Samo	SD (Ves												8	23	ther [.]		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Watri) (W=wate \$=solid, 0=wasteld BT=Tissu A=Alr)	r, S	Portom M	8011 EDB											Total Number		Special In	struction	s/Note:
EVE-Suit-Oct 48Prot SVE-Suit-G. +23-47 Prel	10/ 73/2022	11:17	Preserva G	uon Cod S	. A. A	YX II N	1		1					+	4-			- -	_	A CONTRACTOR OF THE PARTY OF TH		and the second short of the second
3VE-3011-041 -46PTREXT/E 5-11 (15-1-28-1470-)		11:22	G	s	-	N	+					+	+	-	+	H		1				
8VE-Soil-Oct -48Pre2JVE-Jull-Oct 23-47 Pre) 8VE-Soil-Oct -40Pre3JVE-Jull-Oct 23-47 Pre3		11:27	G	s	-	N N	╀	 	┼				+	+	+			1	1			
SVE SOIL-OCT -46Prod 5VE-SUIL-OCT 23-47 Pro 4	1	1/13/3	G	s		1 N		+				\dashv	+	+	+	-						
SVE Seil Oct -46DUF	10/ /2022				丰	##	L _x	John Marie	T			1		\top		1		1				
Trip Blank				s	- N	1 N	×						\top					Î	2			
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Possible Hazard Identification □ Non-Hazard □ ammable S □ litant Pois	bn B	nown [Radiological	,		Sa	-	e Dis Returi	-	-					d if s By L	•	s are	retain \r _{ch}		longer than 1	month) Month	·e
Deliverable Requested: I III, IV Other (specify)			stadiological	,	:	Sp					C Red				<i>Dy 2</i> .	.10			1140			3
Empty Kit Relinquished by		Date:			Т	ime:					,			Ме	thod o	Shipm	ent:					
Relinquished by: Jase Allen	Date/Time: 10/25/27	. 1315		Company Company	Ma	'n	Rec	eived t	oy:	7.	1					Date/	Time:	22		13 55	Company	10R
Relinquished by:	Date/Time: (U/25/2)			Company		· · · · · · · · · · · · · · · · · · ·	Rec	eived	Sy.	//-	10	15				Dale/	Time:	n N		1600	Company	ner
Relinquished by:	Date/Time:	<u> </u>		Company			Rec	eived t	oy:	1		/				Date/	Time:	a n	_	110 -	Company	UIT
Custody Seals Intact: Custody Seal No. Δ Yes Δ No				Page	13 (of 1	Č00	ler Ten	nperati	ure(s)	°C and	Other	Rema	rks:	Ь Ц	· \(lose	·)			4	0/26/202

Client: HDR Inc Job Number: 590-19064-1

Login Number: 19064 List Source: Eurofins Spokane

List Number: 1 Creator: Fettig, Riley

Creator: Fettig, Riley			
Question	An	swer	Comment
Radioactivity wasn't checked or is = background as measured meter.</td <td>d by a survey N/A</td> <td>٨</td> <td></td>	d by a survey N/A	٨	
The cooler's custody seal, if present, is intact.	N/A	\	
Sample custody seals, if present, are intact.	N/A	١.	
The cooler or samples do not appear to have been compromise tampered with.	ed or Tru	е	
Samples were received on ice.	Tru	е	
Cooler Temperature is acceptable.	Tru	е	
Cooler Temperature is recorded.	Tru	е	
COC is present.	Tru	е	
COC is filled out in ink and legible.	Tru	е	
COC is filled out with all pertinent information.	Tru	е	
Is the Field Sampler's name present on COC?	Tru	е	
There are no discrepancies between the containers received ar	nd the COC. Tru	е	
Samples are received within Holding Time (excluding tests with HTs)	immediate Tru	е	
Sample containers have legible labels.	Tru	е	
Containers are not broken or leaking.	Tru	е	
Sample collection date/times are provided.	Tru	е	
Appropriate sample containers are used.	Tru	е	
Sample bottles are completely filled.	Tru	е	
Sample Preservation Verified.	N/A	١	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	ested Tru	е	
Containers requiring zero headspace have no headspace or bu <6mm (1/4").	bble is Tru	е	
Multiphasic samples are not present.	Tru	е	
Samples do not require splitting or compositing.	Tru	е	
Residual Chlorine Checked.	N/A	١	

Eurofins Spokane



Environment Testing America

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

Cardui Amogter

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

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.

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

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Case Narrative

Client: HDR Inc Job ID: 590-19065-1

Project/Site: Simplot Warden

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 Job ID: 590-19065-1

Project/Site: Simplot Warden

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 Job ID: 590-19065-1

Project/Site: Simplot Warden

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)

Detection Limit (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 Calculate

Not Detected at the reporting limit (or MDL or EDL if shown) ND

Negative / Absent NEG POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Client Sample Results

Client: HDR Inc Job ID: 590-19065-1 Project/Site: Simplot Warden Lab Sample ID: 590-19065-1 Client Sample ID: SVE-Soil-Oct25-48Pre1 Date Collected: 10/25/22 14:15 Matrix: Solid Date Received: 10/25/22 16:10 **General Chemistry** Analyte RL **RL** Unit D Dil Fac Result Qualifier Prepared Analyzed Percent Moisture (EPA Moisture) 0.01 0.01 % 10/26/22 09:46 9.7 0.01 0.01 % 10/26/22 09:46 **Percent Solids (EPA Moisture)** 90.3 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 Method: EPA 8011 - EDB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 10/26/22 08:21 10/26/22 13:14 1,2-Dibromoethane (EDB) ND 0.055 0.038 ug/Kg 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 **General Chemistry** Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 0.01 0.01 % 10/26/22 09:46 **Percent Moisture (EPA Moisture)** 9.4 0.01 % **Percent Solids (EPA Moisture)** 90.6 0.01 10/26/22 09:46 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 Method: EPA 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 10/26/22 08:21 10/26/22 13:55 1.2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.054 0.038 ug/Kg 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 **General Chemistry** Analyte Result Qualifier RL **RL** Unit D Prepared Analyzed Dil Fac 0.01 0.01 % 10/26/22 09:46 **Percent Moisture (EPA Moisture)** 10.6 **Percent Solids (EPA Moisture)** 89.4 0.01 0.01 % 10/26/22 09:46 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 Method: EPA 8011 - EDB Analyzed Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared 10/26/22 08:21 10/26/22 14:11 1,2-Dibromoethane (EDB) 0.055 ND 0.038 ug/Kg 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**

Eurofins Spokane

Analyzed

10/26/22 09:46

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RL

0.01

RL Unit

0.01 % D

Prepared

Result Qualifier

10.1

Analyte

Percent Moisture (EPA Moisture)

6

Dil Fac

10/26/2022

Client Sample Results

Client: HDR Inc Job ID: 590-19065-1

Project/Site: Simplot Warden

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

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 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

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 Prepared Dil Fac Analyzed 0.048 10/26/22 08:21 10/26/22 14:43 1,2-Dibromoethane (EDB) ND 0.033 ug/Kg

QC Sample Results

Client: HDR Inc Job ID: 590-19065-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38758/2-A **Client Sample ID: Method Blank**

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 38772 Prep Batch: 38758

MB MB

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

Lab Sample ID: LCS 590-38758/3-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 38772 Prep Batch: 38758 LCS LCS Spike %Rec

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

2

Client: HDR Inc

Project/Site: Simplot Warden

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

Job ID: 590-19065-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

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

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/25/22 14:17 Date Received: 10/25/22 16:10 Lab Sample ID: 590-19065-2

Matrix: Solid

Dil Batch Batch Initial Final Batch Prepared **Prep Type** Type Method Factor **Amount** Amount Number or Analyzed Analyst Run Lab Total/NA Moisture 38766 10/26/22 09:46 M1V EET SPK Analysis

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

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/25/22 14:19

Date Received: 10/25/22 16:10

_											
		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Pre	ер Туре	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Tot	al/NA	Analysis	Moisture		1			38766	10/26/22 09:46	M1V	EET SPK

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

Lab Sample ID: 590-19065-4

Lab Sample ID: 590-19065-3

Matrix: Solid Percent Solids: 89.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/25/22 14:21

Date Received: 10/25/22 16:10

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38766	10/26/22 09:46	M1V	EET SPK

Eurofins Spokane

Matrix: Solid

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10/26/2022

Lab Chronicle

Client: HDR Inc Job ID: 590-19065-1

Project/Site: Simplot Warden

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

Batch Batch Dil Initial Final Batch Prepared

Prep Type Method **Factor** Number or Analyzed Analyst Type Run **Amount Amount** Prep Total/NA 8011 10.47 g 38758 10/26/22 08:21 M1V EET SPK 2 mL Total/NA 8011 38772 10/26/22 14:27 NMI Analysis **EET SPK** 1 1 mL 1 mL

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Eurofins Spokane

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-19065-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority			Identification Number	Expiration Date	
Washington			C569	01-06-23	
The following analyte the agency does not	•	ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for which	
Analysis Method	Prep Method	Matrix	Analyte		
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture		

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Method Summary

Client: HDR Inc Job ID: 590-19065-1

Project/Site: Simplot Warden

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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11922 East 1st Ave Spokane WA 99206

Chain of Custody Record

🚯 eurofins

Environment Testing

Phone (509) 924-9200 Phone (509) 924-9290 Carrier Tracking No(s): COC No: Sampler Client Information Jered Newcomb, JAN / Arrington Randee E Client Contact: State of Origin: Page: Jered Newcomb 509-899-4371 Randee, Arrington@et.eurofinsus.com Page 1 of 1 Company: PWSID: HDR Inc **Analysis Requested** Address: Due Date Requested: Preservation Codes 835 N Post St. Ste. 101 A HCL M Hexane TAT Requested (days): B NaOH N None Spokane 24 hour C Zn Acetate O AsNaO2 D Nitric Acid P Na204S State, Zip: Q Na2SO3 E NaHSO4 WA, 99202 Compliance Project: A Yes A No R Na2S2O3 F MeOH S H2SO4 G Amchlor 509-899-4371 Purchase Order Requested T TSP Dodecahydrate H Ascorbic Acid WO #: U Acetone V MCAA jered.newcomb@hdrinc.com J DI Water K EDTA W pH 4-5 Project Name: Project #: Z other (specify) L EDA Simplot Warden 10331653 Other SSOW#: Warden WA Matrix Sample W=water, EDB S=solid, Type O=waste/oll, Sample (C=Comp. ST=Tissue, 8011 Special instructions/Note: Sample Identification Sample Date Time G=grab) A=Air) Preservation Code: Ñ SVE-Soil-Oct 15 -48Pre1 10/ 25/2022 415 G S Ν Х SVE-Soil-Oct 🏋 -48Pre2 10/25/2022 G S N N Х 1 SVE-Soil-Oct) -48Pre3 10/ 25/2022 4 s N N Х G SVE-Soil-Oct 15 -48Pre4 10/25/2022 S Ν Х G Trip Blank S N N Х Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Radiological Non-Hazard ammable Poison B __keturn To Client Disposal By Lab ___Archive For Months Deliverable Requested: | | | | | | | | | | | Other (specify) Special Instructions/QC Requirements Empty Kit Relinquished by Method of Shipment: Date: Time: Relinquished by: Relinquished by: Relinquished by: Received by: Company Date/Time: Company Page 13 of 1 10/26/2022 Custody Seals Intact: Custody Seal No. Cooler Temperature(s) °C and Other Remarks:

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Client: HDR Inc Job Number: 590-19065-1

Login Number: 19065 List Source: Eurofins Spokane

List Number: 1 Creator: Fettig, Riley

oreator, reting, railey		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

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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

dance timington

Authorized for release by: 10/31/2022 3:47:09 PM

Randee Arrington, Lab Director (509)924-9200

Randee.Arrington@et.eurofinsus.com

.....LINKS



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.

Client: HDR Inc Project/Site: Simplot Warden Laboratory Job ID: 590-19120-1

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Case Narrative

Client: HDR Inc Job ID: 590-19120-1

Project/Site: Simplot Warden

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 Job ID: 590-19120-1

Project/Site: Simplot Warden

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

Definitions/Glossary

Client: HDR Inc Job ID: 590-19120-1

Project/Site: Simplot Warden

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-extrac

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

G

7

8

40

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Client: HDR Inc

Project/Site: Simplot Warden

Client Sample ID: SVE-Soil-Oct28-49Pre1

Job ID: 590-19120-1

Lab Sample ID: 590-19120-1

Date Collected: 10/28/22 10:05 Date Received: 10/28/22 12:15								Matrix	c: Solid
General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture)	Result 10.2 89.8	Qualifier	RL 0.01 0.01	RL 0.01 0.01		<u>D</u>	Prepared	Analyzed 10/28/22 14:53 10/28/22 14:53	Dil Fac 1 1
Client Sample ID: SVE-Soil Date Collected: 10/28/22 10:05 Date Received: 10/28/22 12:15	-Oct28-4	9Pre1				L	•	e ID: 590-19 Matrix Percent Solid	c: Solid
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	Result ND	Qualifier	RL 0.055		Unit ug/Kg	D	Prepared 10/31/22 09:41	Analyzed 10/31/22 11:56	Dil Fac
Client Sample ID: SVE-Soil Date Collected: 10/28/22 10:09 Date Received: 10/28/22 12:15	-Oct28-4	9Pre2				L	ab Sample	e ID: 590-19 Matrix	9120-2 c: Solid
General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture)	9.7 90.3	Qualifier	RL 0.01 0.01	RL 0.01 0.01		<u>D</u>	Prepared	Analyzed 10/28/22 14:53 10/28/22 14:53	Dil Fac
Client Sample ID: SVE-Soil Date Collected: 10/28/22 10:09 Date Received: 10/28/22 12:15	-Oct28-4	9Pre2				L	•	e ID: 590-19 Matrix Percent Solid	c: Solid
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	Result ND	Qualifier	RL 0.055		Unit ug/Kg	<u>D</u>	Prepared 10/31/22 09:41	Analyzed 10/31/22 12:44	Dil Fac
Client Sample ID: SVE-Soil Date Collected: 10/28/22 10:13 Date Received: 10/28/22 12:15	-Oct28-4	9Pre3				L	₋ab Samplo	e ID: 590-19 Matrix	9120-3 c: Solid
General Chemistry Analyte Percent Moisture (EPA Moisture) Percent Solids (EPA Moisture)	Result 7.4 92.6	Qualifier	RL 0.01 0.01	RL 0.01 0.01		<u>D</u>	Prepared	Analyzed 10/28/22 14:53 10/28/22 14:53	Dil Fac
Client Sample ID: SVE-Soil Date Collected: 10/28/22 10:13 Date Received: 10/28/22 12:15	-Oct28-4	9Pre3				L	•	e ID: 590-19 Matrix Percent Solid	c: Solid
Method: EPA 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	Result ND	Qualifier	RL 0.053		Unit ug/Kg	<u>D</u>	Prepared 10/31/22 09:41	Analyzed 10/31/22 13:00	Dil Fac
Client Sample ID: SVE-Soil Date Collected: 10/28/22 10:16 Date Received: 10/28/22 12:15	-Oct28-4	9Pre4				L	₋ab Samplo	e ID: 590-19 Matrix	9120-4 c: Solid
General Chemistry Analyte Percent Moisture (EPA Moisture)	Result 8.3	Qualifier	RL 0.01	RL 0.01	Unit %	<u>D</u>	Prepared	Analyzed 10/28/22 14:53	Dil Fac

Eurofins Spokane

Client Sample Results

Client: HDR Inc Job ID: 590-19120-1

Project/Site: Simplot Warden

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 RL **RL** Unit Result Qualifier D Prepared Analyzed Dil Fac **Percent Solids (EPA Moisture)** 0.01 0.01 % 10/28/22 14:53 91.7

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 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

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 Dil Fac Prepared Analyzed **Percent Moisture (EPA Moisture)** 9.8 0.01 0.01 % 10/28/22 14:53 **Percent Solids (EPA Moisture)** 90.2 0.01 0.01 % 10/28/22 14:53

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

Result Qualifier Analyte RL **MDL** Unit D Analyzed Dil Fac Prepared 10/31/22 09:41 10/31/22 13:32 1,2-Dibromoethane (EDB) 0.055 ND 0.038 ug/Kg

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 RLMDL Unit Prepared Analyzed 0.049 1,2-Dibromoethane (EDB) ND 0.035 ug/Kg 10/31/22 09:43 10/31/22 13:48

QC Sample Results

Client: HDR Inc Job ID: 590-19120-1

RL

0.050

Spike

Added

1.00

Spike

Added

1.11

Spike

Added

1.11

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38834/2-A

Matrix: Solid Analysis Batch: 38846

MB MB Result Qualifier Analyte

ND

Sample Sample

Sample Sample

Sample Sample

 $\overline{\mathsf{ND}}$

Result Qualifier

ND

Result Qualifier

1,2-Dibromoethane (EDB)

Lab Sample ID: LCS 590-38834/3-A **Matrix: Solid**

Analysis Batch: 38846

1,2-Dibromoethane (EDB) Lab Sample ID: 590-19120-1 MS

Matrix: Solid

Analysis Batch: 38846

Analyte 1,2-Dibromoethane (EDB)

Lab Sample ID: 590-19120-1 MSD **Matrix: Solid**

Analysis Batch: 38846

Analyte 1,2-Dibromoethane (EDB)

Lab Sample ID: 590-19120-5 DU

Matrix: Solid

Analysis Batch: 38829

Analyte

Result Qualifier Percent Moisture 9.8 90.2 Percent Solids

Method: Moisture - Percent Moisture

Unit

ug/Kg

Unit

ug/Kg

MDL Unit

0.035 ug/Kg

LCS LCS

MS MS

MSD MSD

DU DU

9.7

90.3

1.01

Result Qualifier

0.962

Result Qualifier

1.23

Result Qualifier

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38834

Analyzed Dil Fac **Prepared** 10/31/22 09:41 10/31/22 11:24

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 38834

%Rec

Limits 60 - 140 123

Client Sample ID: SVE-Soil-Oct28-49Pre1

D %Rec

D

Prep Type: Total/NA

Prep Batch: 38834

%Rec Limits %Rec

Client Sample ID: SVE-Soil-Oct28-49Pre1

Prep Type: Total/NA

Prep Batch: 38834

%Rec **RPD** Limits **RPD** Limit

Unit ug/Kg 60 - 140 20

Client Sample ID: SVE-Soil-Oct28-49DUP

%Rec

Prep Type: Total/NA

RPD Result Qualifier Unit D **RPD** Limit % 2 20 % 0.2 20

Eurofins Spokane

Client: HDR Inc

Project/Site: Simplot Warden

Client Sample ID: SVE-Soil-Oct28-49Pre1

Date Collected: 10/28/22 10:05

Lab Sample ID: 590-19120-1

Matrix: Solid

Job ID: 590-19120-1

Date Received: 10/28/22 12:15

Batch Dil Initial Final Batch Batch Prepared Method **Factor** Number or Analyzed **Prep Type** Type Run Amount Amount Analyst Lab Total/NA Analysis Moisture 38829 10/28/22 14:53 M1V EET SPK

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

Matrix: Solid

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/28/22 10:09

Date Received: 10/28/22 12:15

_											
	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/28/22 10:09

Date Received: 10/28/22 12:15

Lab Sample	ID: 590-19120-2

Lab Sample ID: 590-19120-3

Lab Sample ID: 590-19120-3

Lab Sample ID: 590-19120-4

Lab Sample ID: 590-19120-2

Percent Solids: 90.3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/28/22 10:13

Date Received: 10/28/22 12:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/28/22 10:13

Date Received: 10/28/22 12:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38829	10/28/22 14:53	M1V	EET SPK

Matrix: Solid Percent Solids: 92.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/28/22 10:16

Date Received: 10/28/22 12:15

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38829	10/28/22 14:53	M1V	EET SPK

Eurofins Spokane

Page 9 of 14

Matrix: Solid

Lab Chronicle

Job ID: 590-19120-1 Client: HDR Inc

Project/Site: Simplot Warden

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**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

	Batch	Batch	D	Dil	Initial	Final	Batch	Prepared	A I 4	11.
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 **Matrix: Solid**

Date Collected: 10/28/22 00:00 Date Received: 10/28/22 12:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Eurofins Spokane

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-19120-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	P	rogram	Identification Number	Expiration Date
Washington	S	tate	C569	01-06-23
		This list may include analytes for which		
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture	

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Method Summary

Client: HDR Inc Job ID: 590-19120-1

Project/Site: Simplot Warden

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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A Voc. A No.

Chain of Custody Record

🐟 eurofins

Unvironment Testing

Spokane WA 99206 Phone (509) 924-9200 Phone (509) 924-9290 Carrier Tracking No(s): COC No: Jered Newcomb, JAN / Day el Brands DMB Arrington, Randee E Client Information Ctient Contact: Phone: State of Origin: Page: Jered Newcomb 509-899-4371 Randee.Arrington@et.eurofinsus.com Page 1 of 1 Company: PWSID: Job#: HDR Inc **Analysis Requested** Address: Due Date Requested Preservation Codes 835 N Post St. Ste 101 A HCL M Hexane TAT Requested (days): B NaOH N None Spokane 24 hour C Zn Acetate O AsNaO2 State, Zip: D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 WA, 99202 Compliance Project: △ Yes △ No F MeOH R Na2S2O3 PO #: G Amchlor S H2SO4 509-899-4371 Purchase Order Requested H Ascorbic Acid T TSP Dodecahydrate WO #: l Ice U Acetone jered.newcomb@hdrinc.com J DI Water V MCAA K EDTA W pH 4-5 Project Name: Project #: L EDA Z other (specify) Simplot Warden 10331653 SSOW#: Other. Warden WA Matrix Sample (W=water, Type O=waste/olf, Sample (C=comp. Time Sample Identification Sample Date G=grab) Special Instructions/Note: Preservation Code: 10/78/2022 1005 SVE-Soil-Oct 35-49Pre1 S Х N SVE-Soil-Oct 2 &-49Pre2 10/ 20/ /2022 10 09 G S N N Х SVE-Soil-Oct 28-49Pre3 10 13 10/1/2 /2022 G S N N Х SVE-Soil-Oct 26-49Pre4 10/16 10/18/2022 S Х G N N SVE-Soil-Oct 🥸 -49DUP 10/ 12 /2022 12 00 G S N N Χ Trip Blank S N Х 590-19120 Chain of Custody Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification Ladiological Non-Hazard ammable Poison B Return To Client Disposal By Lab Archive For nown Months Deliverable Requested: I II III, IV Other (specify) Special Instructions/QC Requirements. Method of Shipment: Empty Kit Relinquished by Date: Time: Date/Time: 10/28/22 Date/Time: 10/20/27 Relinquished by: Company 12 15 Relinquished by: Company Date/Time: Relinquished by: Date/Time: Company Received by: Company Page 13 of 14 coler Temperature(s) °C and Other Remarks: Custody Seals Intact: Custody Seal No.

10/31/202

Client: HDR Inc Job Number: 590-19120-1

Login Number: 19120 List Source: Eurofins Spokane

List Number: 1 Creator: Fettig, Riley

Creator: Fettig, Riley		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	
s 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	

Eurofins Spokane



Environment Testing

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



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.

Client: HDR Inc Project/Site: Simplot Warden Laboratory Job ID: 590-19133-1

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Case Narrative

Client: HDR Inc Job ID: 590-19133-1

Project/Site: Simplot Warden

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.

Sample Summary

Client: HDR Inc Job ID: 590-19133-1

Project/Site: Simplot Warden

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
Lab Sample ID	Chefit Sample ID	Wallix	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

Definitions/Glossary

Client: HDR Inc Job ID: 590-19133-1

Project/Site: Simplot Warden

Glossary

DL

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, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry)

Detection Limit (DoD/DOE)

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) Most Probable Number MPN 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 Job ID: 590-19133-1 Project/Site: Simplot Warden Lab Sample ID: 590-19133-1 Client Sample ID: SVE-Soil-Oct30-50Pre1 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 Dil Fac Prepared Analyzed Percent Moisture (EPA Moisture) 0.01 0.01 % 11/01/22 15:25 8.4 0.01 0.01 % **Percent Solids (EPA Moisture)** 11/01/22 15:25 91.6 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 **MDL** Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac 11/01/22 15:41 11/01/22 20:04 1,2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.054 0.037 ug/Kg 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 0.01 0.01 % 11/01/22 15:25 **Percent Moisture (EPA Moisture)** 10.1 0.01 % **Percent Solids (EPA Moisture)** 89.9 0.01 11/01/22 15:25 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 Prepared Analyzed Dil Fac 11/01/22 15:41 11/01/22 20:20 1.2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.052 0.036 ua/Ka 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 0.01 0.01 % 11/01/22 15:25 **Percent Moisture (EPA Moisture)** 10.5 **Percent Solids (EPA Moisture)** 89.5 0.01 0.01 % 11/01/22 15:25 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 Analyzed Dil Fac Prepared 1,2-Dibromoethane (EDB) 0.052 11/01/22 15:41 11/01/22 20:36 ND 0.036 ug/Kg Client Sample ID: SVE-Soil-Oct30-50Pre4 Lab Sample ID: 590-19133-4 Date Collected: 10/30/22 11:55 Matrix: Solid

Eurofins Spokane

Analyzed

11/01/22 15:25

RL

0.01

RL Unit

0.01 %

D

Prepared

Result Qualifier

11.0

Date Received: 11/01/22 15:00

Percent Moisture (EPA Moisture)

General Chemistry

Analyte

Dil Fac

Client Sample Results

Client: HDR Inc Job ID: 590-19133-1

Project/Site: Simplot Warden

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 RL **RL** Unit D Analyzed Result Qualifier Prepared Dil Fac **Percent Solids (EPA Moisture)** 0.01 0.01 % 11/01/22 15:25 89.0

Lab Sample ID: 590-19133-4 Client Sample ID: SVE-Soil-Oct30-50Pre4

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 Prepared Analyzed Dil Fac 11/01/22 15:41 11/01/22 20:52 1,2-Dibromoethane (EDB) ND 0.056 0.039 ug/Kg

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 Prepared Analyzed Dil Fac 1,2-Dibromoethane (EDB) 0.048 11/01/22 15:41 11/01/22 21:08 ND 0.033 ug/Kg

QC Sample Results

Client: HDR Inc Job ID: 590-19133-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38868/3-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 38867 MB MB

Prep Type: Total/NA Prep Batch: 38868

100

ug/Kg

MDL Unit Analyzed Dil Fac Analyte Result Qualifier RL Prepared <u>11/01/22 14:55</u> <u>11/01/22 16:51</u> 1,2-Dibromoethane (EDB) 0.050 ND 0.035 ug/Kg

Lab Sample ID: LCS 590-38868/6-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

0.995

1,2-Dibromoethane (EDB)

Prep Batch: 38868 **Analysis Batch: 38867** LCS LCS %Rec Spike

Added Result Qualifier Unit D %Rec Limits 60 - 140

1.00

Job ID: 590-19133-1

Project/Site: Simplot Warden

Client: HDR Inc

Client Sample ID: SVE-Soil-Oct30-50Pre1

Date Collected: 10/30/22 11:47 Date Received: 11/01/22 15:00 Lab Sample ID: 590-19133-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/30/22 11:47 Date Received: 11/01/22 15:00

Lab Sample ID: 590-19133-1 **Matrix: Solid**

Percent Solids: 91.6

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/30/22 11:50 Date Received: 11/01/22 15:00

Lab Sample ID: 590-19133-2

Matrix: Solid

Batch Batch Dil Initial Final **Batch** Prepared **Prep Type** Type Method Factor Amount Number or Analyzed Run **Amount Analyst** Lab Total/NA Moisture 38869 11/01/22 15:25 M1V EET SPK Analysis

Client Sample ID: SVE-Soil-Oct30-50Pre2

Date Collected: 10/30/22 11:50 Date Received: 11/01/22 15:00

Lab Sample ID: 590-19133-2 **Matrix: Solid**

Percent Solids: 89.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/30/22 11:51 Date Received: 11/01/22 15:00 Lab Sample ID: 590-19133-3 **Matrix: Solid**

Lab Sample ID: 590-19133-3

Lab Sample ID: 590-19133-4

Batch Batch Dil Initial Final **Batch** Prepared **Prep Type** Type Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis Moisture 38869 11/01/22 15:25 M1V EET SPK

Client Sample ID: SVE-Soil-Oct30-50Pre3

Date Collected: 10/30/22 11:51

Matrix: Solid Date Received: 11/01/22 15:00 Percent Solids: 89.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/30/22 11:55

Date Received: 11/01/22 15:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38869	11/01/22 15:25	M1V	EET SPK

Eurofins Spokane

Matrix: Solid

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11/2/2022

Lab Chronicle

Client: HDR Inc Job ID: 590-19133-1

Project/Site: Simplot Warden

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 590-19133-5 **Client Sample ID: Trip Blank**

Date Collected: 10/30/22 00:00 **Matrix: Solid**

Date Received: 11/01/22 15:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Job ID: 590-19133-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	P	rogram	Identification Number	Expiration Date
Washington		tate	C569	01-06-23
The following analyte the agency does not	•	ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture	

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Method Summary

Client: HDR Inc Job ID: 590-19133-1

Project/Site: Simplot Warden

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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Client Information

835 N Post St. Ste 101

Client Contact:

Company:

HDR Inc

Address:

City:

Jered Newcomb

Phone (509) 924-9200 Phone (509) 924-9290

Chain of Custody Record

PWSID:

Lab PM:

E-Mail:

Arrington Randee E

Randee.Arrington@et.eurofinsus.com

Sampler Jered Newcomb, JAN IJGKE AUCH

Phone:

509-899-4371

Due Date Requested:

TAT Requested (days):

eurofins

COC No:

Job#;

A HCL B NaOH

Page 1 of 1

Preservation Codes.

Carrier Tracking No(s):

State of Origin:

Analysis Requested

Amer a

M Hexane

N None

Environment Testing

pokatre late, Zip: //A, 99202 lone: 09-899-4371 mail: leted.newcomb@hdrinc.com loject Name: implot Warden le: //arden WA	Compliance Project #: Project #: 10331653 SSOW#:		A No		Sample (Yes or No)	ISD (Yes or No)													ntainers	C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other	O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO4 T TSP Doo U Acetone V MCAA W pH 4-5 Z other (sp	i 3 3 3 decahydrate	
ample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/olf, BT=Tissue, A=Air)	Field Filtered		2011 EDB											7	Total Number	Special in	structions	/Note	
VE-Soil-Oct 30-50Pre1	10/ \$0 /2022	11:47	G	S	N	\bigcap_{N}	N X			-				-				\dashv	<u> </u>		11.00 mm mm mm mm mm mm mm mm mm mm mm mm m		-
VE-Soil-Oct 36 -50Pre2	10/50/2022	11:50	G	S	H	N	X	_		+									1				-
VE-Soil-Oct 39 -50Pre3	10/30/2022		G	S	H	N	х			-	-	_		-			\dashv	-	1				_
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Custody Seals Intact: Custody Seal No.	<u> </u>			Page 13	3 o	f 12	Cooler 4	Tempe	erature	o(s) °C ∐	and O	ther R	emark		poly	!					<u></u>	11/2/20:	2

Client: HDR Inc Job Number: 590-19133-1

Login Number: 19133 List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

Creator. Vaugnan, Mauison i		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

Eurofins Spokane

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

.....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.

Client: HDR Inc Project/Site: Simplot Warden Laboratory Job ID: 590-18870-1

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Case Narrative

Client: HDR Inc Job ID: 590-18870-1

Project/Site: Simplot Warden

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.

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Sample Summary

Client: HDR Inc Job ID: 590-18870-1

Project/Site: Simplot Warden

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 Job ID: 590-18870-1

Project/Site: Simplot Warden

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.

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

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Project/Site: Simplot Warden

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	

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 Ur	nit D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND F1	0.055	0.039 ug	g/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

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 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

Date Collected: 10/05/22 11:21 **Matrix: Solid**

Date Received: 10/05/22 14:00

Contract Charles								
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 Qu	ualifier 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

Date Received: 10/05/22 14:00

General	Chem	istrv
General	Cileiii	เอน y

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

Matrix: Solid

Lab Sample ID: 590-18870-3

Client Sample Results

Client: HDR Inc Job ID: 590-18870-1

Project/Site: Simplot Warden

Lab Sample ID: 590-18870-4 Client Sample ID: IDW-Drum-4-10052022

Date Collected: 10/05/22 11:23

Matrix: Solid Date Received: 10/05/22 14:00

General Chemistry (Continued)

Analyte RL **RL** Unit Result Qualifier D Prepared Analyzed Dil Fac Percent Solids (EPA Moisture) 0.01 0.01 % 10/10/22 09:14 94.4

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 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

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 Dil Fac D Prepared Analyzed Percent Moisture (EPA Moisture) 5.8 0.01 0.01 % 10/10/22 09:14 Percent Solids (EPA Moisture) 94.2 0.01 0.01 % 10/10/22 09:14

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 Analyzed Prepared 10/10/22 08:02 10/10/22 11:50 1,2-Dibromoethane (EDB) 0.051 ND 0.036 ug/Kg

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 RLUnit Prepared Analyzed 0.049 1,2-Dibromoethane (EDB) ND 0.034 ug/Kg 10/10/22 08:02 10/10/22 12:06

Dil Fac

QC Sample Results

Client: HDR Inc Job ID: 590-18870-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38471/2-A Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 38472** Prep Batch: 38471

MB MB

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

Lab Sample ID: LCS 590-38471/3-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Prep Batch: 38471

Analysis Batch: 38472 Spike LCS LCS %Rec

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

Lab Sample ID: 590-18870-1 MS Client Sample ID: IDW-Drum-1-10052022

Matrix: Solid

Analysis Batch: 38472 Prep Batch: 38471 Sample Sample Spike MS MS %Rec

Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,2-Dibromoethane (EDB) ND F1 1.11 0.625 F1 ug/Kg

Lab Sample ID: 590-18870-1 MSD Client Sample ID: IDW-Drum-1-10052022 **Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 38472 Prep Batch: 38471

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit

1,2-Dibromoethane (EDB) ND F1 1.08 0.706 ug/Kg 66 60 - 140

Prep Type: Total/NA

Job ID: 590-18870-1

Client: HDR Inc Project/Site: Simplot Warden

Client Sample ID: IDW-Drum-1-10052022

Lab Sample ID: 590-18870-1

Date Collected: 10/05/22 11:17 Date Received: 10/05/22 14:00 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 10/05/22 14:00

Matrix: Solid Percent Solids: 89.8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 10/05/22 14:00

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 10/05/22 14:00

Percent Solids: 84.8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 10/05/22 14:00 **Matrix: Solid**

Batch Batch Dil Initial Final **Batch** Prepared **Prep Type** Type Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis Moisture 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 Date Received: 10/05/22 14:00

Matrix: Solid Percent Solids: 87.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 Matrix: Solid

Date Collected: 10/05/22 11:23 Date Received: 10/05/22 14:00

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 38475 10/10/22 09:14 EET SPK Analysis Moisture NMI

Eurofins Spokane

Job ID: 590-18870-1

Project/Site: Simplot Warden

Client: HDR Inc

Client Sample ID: IDW-Drum-4-10052022

Date Collected: 10/05/22 11:23

Lab Sample ID: 590-18870-4 **Matrix: Solid**

Date Received: 10/05/22 14:00 Percent Solids: 94.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 10/05/22 14:00

Matrix: Solid

Batch Dil Initial Final Batch Prepared Method **Prep Type** Type **Amount Amount** Number or Analyzed Analyst Run **Factor** Lab Total/NA Analysis Moisture 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	Kuii	-actor	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 **Matrix: Solid**

Date Collected: 10/05/22 11:00 Date Received: 10/05/22 14:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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	FFT SPK

Laboratory References:

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

Eurofins Spokane

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-18870-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority		rogram	Identification Number	Expiration Date
Washington	S	tate	C569	01-06-23
The following analyte the agency does not	•	ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method Moisture	Prep Method	Matrix Solid	Analyte Percent Moisture	

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Method Summary

Client: HDR Inc Job ID: 590-18870-1

Project/Site: Simplot Warden

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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Phone (509) 924-9200 Phone (509) 924-9290

11922 East 1st Ave

Spokane WA 99206

Client Information

Client Contact:

Company:

Jered Newcomb

Chain of Custody Record

Arrington, Randee E

Randee.Arrington@et.eurofinsus.com

Lab PM:

E-Mail:

PWSID:

Sampler

Phone:

Jered Newcomb, JAN

509-899-4371

🐉 eurofins

COC No: 590-7430-2162.1

Page:

Job#:

Page 1 of 1

Carrier Tracking No(s):

State of Origin:

WΑ

Environment Testing America

HDR Inc			1		l				Anal	ysis i	Requ	ieste	d						
Address: 835 N Post St. Ste. 101 City: Spokane State, Zip: WA, 99202 Phone: 509-899-4371 Email: jered.newcomb@hdrinc.com Project Name: Simplot Warden Site: Warden WA	Due Date Request TAT Requested (d Compliance Proje PO #: Purchase Orde WO #: Project #: 59002373 SSOW#:	ays): 24 (se	***************************************		Sample (Yes or No) SD (Yes or No)						ALA CALLES AND AND AND AND AND AND AND AND AND AND					ofcont	Preservation Co A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I toe J DI Water K EDTA L EDA Other	M Hexane N None O AsNaO2 P Na2O45 O Na2SO3 R Na2S2O S H2SO4	2 S 3 O3 odecahydrate
Sample Identification	Sample Date	Sample Time	(C=comp, G=grab)	Watrix (W=water, S=soild, O=waste/oil, BT=Tissue, A=Air)	Field Filtered San Perform MS/MSD	The second second										(Total Number	Special li	nstructions	s/Note:
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eurofins Environment Testing America

Chain of Custody Record

Presentation Processor Presentation Present	Custody Seals Intact: Custody Seal No.:	Relinquished by:	Relinquished by:	l by:	ponvoiano i vodassissa i, ii, iii, iv, outei (spesity)	Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown eliverable Requested: 1 II III IV Other (energic)	Possible Hazard Identification				-	Tip Blank	DW-Drum-5-10052022	-4-10052022	3-10052022	10W-DWW-7-10027077	10W-10mm-1-10052022 10/5/22		Sample Identification Sample Date	Site: SSOW#:	Project Name: Project #: 59002373	ered.newcomb@hdrinc.com	Phone: PO # Purchase Order Requested	State, Zip: WA, 99202 Compliance Project:	City: TAT Requested (days): Spokane	N Post St. Ste. 101	Company: HDR Inc	omb	Client Contact:
Analysis Requested Preservation Cod A. HCL B. Nach B. Nach C. Za Acadas D. Mirc Aid F. Mech G. Amethor H. Ascarbic Acid H. Le DIN L. EDA J. Divider J. Divider J. Divider J. Divider J. EDA J. EDA J. EDA J. EDA J. EDA J. EDA J. EDA J. EDA J. EDA J. Divider J. EDA J. EDA J. Divider J. EDA J. EDA J. Divider J. EDA J. E		Company		Date:						,		1	~	123	(2)		2	Preservation Code:	Sample Type e (C=comp, G=grab)	Videous I			equested	Yes A No	24 2			Rand	TI MA
Page: Page 1 of 1 Job #: Preservation Cod A - HCL B - NaOH C - In Acetate D - Nirto Acetate D - Nir	Cooler Temperature(s) °C and Other	Received by:	a X	⊣	obecier managements/40 treduier	찐						٤	<	*	*	\(\times \)	2	X z	Perform MS/I	PRINCHES AND	Charles and the	and the latest of	0)		1.4			⊪: dee.Arrington@et.eurofinsus.com	
	2			Method of Shipment:		osal By Lab	e assessed if samples are retain		等 1.7年							2	Section Control	X	Total Numbe	r of co	ontain	ers					equested	WA	The car Carlos
M - Hexane N - Nane O - As NaO2 P - Na2O4S O - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetione V - MCAA W - pH 4-5 Z - other (specify) Months Company Company Company Company Company	Those					iive For	ed longer than 1											· · · · · · · · · · · · · · · · · · ·	Special Ins	Omer	L-EDA		- Amchlor - Ascorbic Acid	- Nimc Acid - NaHSO4 - MeOH	H cetate	Preservation Codes:	Job #:	Page 1 of 1	Laue.

Client: HDR Inc Job Number: 590-18870-1

Login Number: 18870 List Source: Eurofins Spokane

List Number: 1

Creator: Arrington, Randee E

Grouton, Armigron, Randoo L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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

danau timington

Authorized for release by: 10/27/2022 3:12:50 PM

Randee Arrington, Lab Director (509)924-9200

Randee.Arrington@et.eurofinsus.com

.....LINKS



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.

Client: HDR Inc Project/Site: Simplot Warden Laboratory Job ID: 590-19044-1

Table of Contents

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Case Narrative

Client: HDR Inc Job ID: 590-19044-1

Project/Site: Simplot Warden

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.

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Sample Summary

Client: HDR Inc Job ID: 590-19044-1

Project/Site: Simplot Warden

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

Definitions/Glossary

Client: HDR Inc Job ID: 590-19044-1

Project/Site: Simplot Warden

Qualifiers

GC Semi VOA

Qualifier Qualifier Description

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

Glossary

Appreviation	These commonly used appreviations 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

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Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 590-19044-6

10/26/22 10:09 10/26/22 20:03

Project/Site: Simplot Warden

Lab Sample ID: 590-19044-1 Client Sample ID: IDW-Water-Drum-1-10212022

Date Received: 10/21/22 15:30

Date Collected: 10/21/22 11:50 **Matrix: Water**

Method: EPA 8011 - EDB

Analyte RL **MDL** Unit Result Qualifier D Prepared Analyzed Dil Fac 1,2-Dibromoethane (EDB) 0.010 10/26/22 10:09 10/26/22 18:25 ND 0.0025 ug/L

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 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

Client Sample ID: IDW-Water-Drum-3-10212022 Lab Sample ID: 590-19044-3

Date Collected: 10/21/22 12:20

Date Received: 10/21/22 15:30

Method: EPA 8011 - EDB

Analyte Result Qualifier RI **MDL** Unit Dil Fac D Prepared Analyzed 0.010 10/26/22 10:09 10/26/22 19:14 1,2-Dibromoethane (EDB) 0.0039 J 0.0025 ug/L

Client Sample ID: IDW-Water-Drum-4-10212022 Lab Sample ID: 590-19044-4

Date Collected: 10/21/22 12:35

Date Received: 10/21/22 15:30

Method: EPA 8011 - EDB

Analyte Result Qualifier RL **MDL** Unit 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

Client Sample ID: IDW-Water-Drum-5-10212022 Lab Sample ID: 590-19044-5

Date Collected: 10/21/22 12:45

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

Client Sample ID: IDW-Water-Drum-6-10212022

ND

Date Collected: 10/21/22 13:00

Date Received: 10/21/22 15:30

Method: EPA 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Lab Sample ID: 590-19044-7 **Client Sample ID: Trip Blanks**

0.010

0.0025 ug/L

Date Collected: 10/21/22 00:00 Date Received: 10/21/22 15:30

Method: EPA 8011 - EDB

1,2-Dibromoethane (EDB)

Analyte Result Qualifier RI MDL Unit Prepared Analyzed Dil Fac 0.010 10/26/22 10:09 10/26/22 20:51 1,2-Dibromoethane (EDB) ND 0.0025 ug/L

QC Sample Results

Client: HDR Inc Job ID: 590-19044-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-38773/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 38772

Prep Type: Total/NA

Prep Batch: 38773

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte **Prepared** 0.010 10/26/22 10:09 10/26/22 15:59 1,2-Dibromoethane (EDB) ND 0.0025 ug/L

Lab Sample ID: LCS 590-38773/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 38772** Prep Batch: 38773

Spike LCS LCS %Rec

Limits Analyte Added Result Qualifier D %Rec Unit 0.125 0.0988 60 - 140 1,2-Dibromoethane (EDB) ug/L 79

Lab Sample ID: LCSD 590-38773/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Water Prep Type: Total/NA **Analysis Batch: 38772** Prep Batch: 38773

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits Limit Analyte Unit %Rec **RPD**

1,2-Dibromoethane (EDB) 0.125 0.0899 ug/L

Lab Sample ID: 590-19044-6 MS Client Sample ID: IDW-Water-Drum-6-10212022

Matrix: Water Prep Type: Total/NA **Analysis Batch: 38772** Prep Batch: 38773

Spike MS MS %Rec Sample Sample

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,2-Dibromoethane (EDB) ND 0.125 0.0990 60 - 140 ug/L

Lab Sample ID: 590-19044-6 MSD Client Sample ID: IDW-Water-Drum-6-10212022

Matrix: Water

Analysis Batch: 38772 Prep Batch: 38773

MSD MSD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit %Rec 1,2-Dibromoethane (EDB) ND 0.125 0.0817 65 60 - 140 20 ug/L 19

10/27/2022

Prep Type: Total/NA

Job ID: 590-19044-1

Client: HDR Inc

Project/Site: Simplot Warden

Client Sample ID: IDW-Water-Drum-1-10212022

Date Collected: 10/21/22 11:50

Lab Sample ID: 590-19044-1 **Matrix: Water**

Date Received: 10/21/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/21/22 11:55 Date Received: 10/21/22 15:30

Lab Sample ID: 590-19044-2 **Matrix: Water**

Lab Sample ID: 590-19044-4

Lab Sample ID: 590-19044-5

Matrix: Water

Matrix: Water

Matrix: Water

Batch Dil Initial Final Batch Prepared Method Number **Prep Type** Type **Factor Amount Amount** or Analyzed Run Analyst Lab Total/NA 8011 Prep 80 mL 2 mL 38773 10/26/22 10:09 M1V EET SPK Analysis Total/NA 8011 1 mL 38772 10/26/22 18:58 NMI 1 mL **EET SPK**

Client Sample ID: IDW-Water-Drum-3-10212022 Lab Sample ID: 590-19044-3

Date Collected: 10/21/22 12:20

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

Date Collected: 10/21/22 12:35 Dat

ate Collected: 10 ate Received: 10							-	Matrix: Water
	Batch	Batch	Dil	Initial	Final	Batch	Prepared	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 10/21/22 12:45

Date Received: 10/21/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Received: 10/21/22 15:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Eurofins Spokane

Lab Chronicle

Client: HDR Inc Job ID: 590-19044-1

Project/Site: Simplot Warden

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Job ID: 590-19044-1

Project/Site: Simplot Warden

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 Job ID: 590-19044-1

Project/Site: Simplot Warden

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

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Spokane WA 99206

Chain of Custody Record

eurofins | Environment Testing America

Phone (509) 924-9200 Phone (509) 924-9290																				
Client Information	Sampter Jered Newcomb)			ab PM: Arringto	on, F	Rande	e E					Ca	arrier Tr	racking	No(s):			COC No:	
Client Contact: Jered Newcomb	Phone: 509-899-4371				-Mail: Randes	e.Arr	ingto	n@e	t.eur	ofins	us.co	m	St	ate of (Origin:				Page: Page 1 of 1	
Company: HDR Inc			PWSID:							Ai	nalys	is R	equ	este	d				Job#:	
Address: 335 N Post St. Ste. 101	Due Date Requeste	ed:												T					Preservation Cod	
city: Spokane	TAT Requested (da	ıys): Stand	ard															The second second	A HCL B NaOH C Zn Acelate	M Hexane N None O AsNaO2 P Na2O4S
State, Zip: NA, 99202	Compliance Projec	t: Δ Yes	Δ No															, although	D Nitric Acid E NaHSO4 F MeOH	Q Na2SO3 R Na2S2O3
Phone: 509-899-4371	PO#: Purchase Order	Requested			6														G Amchior H Ascerbic Acid	S H2SO4 T TSP Dodecahydrate
erail: ered.newcomb@hdrinc.com	WO #:				S or N	2			* * *									2	l Ice J DI Water	U Acetone V MCAA
Project Name: Simplot Warden	Project #: 10331653				S (Ve	8		* ₃	Semi-VOCs									containe	K EDTA L EDA	W pH 4-5 Z other (specify)
Site: Warden WA	SSOW#:				idue	δq.	*_	OB VOCS										ofcon	Olher [,]	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matri) (W=wate S=solid, O=waste/o BT=Tissu A=Air)	Filtere	Perform MS/MS	EPA Method 8011	EPA Method 826	EPA Method 8270	****								Total Number o	Special In	structions/Note:
		<u> </u>	Preserva	tion Cod	e: X	¥						1						\bot X		
DW-Water-Drum-1-10 入1 入0 入入	10/21/2022	1150	G	W	N	h	Х								┸			7	, , ,	Full list may need
DW-Water-Drum-2-1021 2012 え	10/2 / /2022	1155	G	W	N	И	X								$oldsymbol{ol}}}}}}}}}}}}}}}}}}$			7	to be reported in	
DW-Water-Drum-3-1021 2022	10/2 /2022	1220	G	W	N	Ŋ	х											7	**Place sample a	
DW-Water-Drum-4-0212022	10/ 🔰 \ /2022	1235	G	W	N	Ŋ	Х											7	Please advise HD	R on hold time expiration dates
DW-Water-Drum-5-(じ)しょう	10/ 🔌 /2022	1245	G	W	N	M	х											7		
DW-Water-Drum-6-(0) 120 カストー	10/2 /2022	(300	G	W	N	Υ	Х											7	Perform M	Z/WZIO
Frip Blanks				W	N	N	х							ı				3		
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Possible Hazard Identification	·	······	·			Sa						ay b					s are		ed longer than 1	•
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Empty Kit Relinquiet)ed by		Date:			Ti	me:			7	//	_				thod of	f Shipme	ent'			
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Relinquished by:	Date/Time:			Company			Kece	ived b	y:							Date/	i 4H0;			Company
Custody Seals Intact: Custody Seal No.				Dono	40 -		Coole	er Ten	nperati	ure(s)	°C and	Olher	Rema	rks:		5.	$v\overline{U}$	(110 IR	00 b 10/27/202

Client: HDR Inc Job Number: 590-19044-1

Login Number: 19044 List Source: Eurofins Spokane

List Number: 1 Creator: Fettig, Riley

Creator: Fettig, Riley		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

Eurofins Spokane