

August 10, 2022

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

Subject: Progress Report for July 2022, Warden City Water Supply Wells No. 4 and 5.

Washington Facility Site ID No. 2802409; Cleanup Site ID: 1618

Agreed Order No. DE 16890

Dear Christer:

The J.R. Simplot Company (Simplot) entered into an Agreed Order (AO) (No. DE 16890) with the Washington State Department of Ecology (Ecology) to provide remedial action at 1800 W. 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 July 2022

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

Anticipated Activities for August 2022

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

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

Christer Loftenius, Ecology August 10, 2022 Page 3

Respectfully,

HDR Engineering, Inc.

Tyler Allen

Senior Environmental Scientist

Attachments: Batch 9 Pre Treatment EDB 7-7-2022 (J17966-1) Lab Report.pdf

Batch 10 Pre Treatment 7-11-2022 EDB (J17997-1) Lab Report.pdf

Batch 11 Pre Treatment 7-13-2022 (J18027-1) Lab Report Batch 12 Pre Treatment 7-21-2022 (J18119-1) Lab Report

Batch 13 Pre Treatment EDB 7-25-22 (J18150-1) Lab Report.pdf Batch 14 Pre Treatment EDB 7-27-22 (J18172-1) Lab Report.pdf Batch 15 PreTreatment EDB July 29 (J18194-1) Lab Report.pdf

CC: Molly Dimick, J.R. Simplot Company

Stacey Lamer, HDR



Environment Testing America

ANALYTICAL REPORT

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

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

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

Attn: Jered Newcomb

Authorized for release by:

7/8/2022 1:49:09 PM

Randee Arrington, Lab Director (509)924-9200

Randee.Arrington@et.eurofinsus.com

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: 590-17966-1

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Case Narrative

Client: HDR Inc Job ID: 590-17966-1

Project/Site: Simplot Warden

Job ID: 590-17966-1

Laboratory: Eurofins Spokane

Narrative

Receipt

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

Sample Summary

Client: HDR Inc Job ID: 590-17966-1

Project/Site: Simplot Warden

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

Definitions/Glossary

Client: HDR Inc Job ID: 590-17966-1

Project/Site: Simplot Warden

Glossary

DL

DL, RA, RE, IN

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

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

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Client Sample Results Client: HDR Inc Job ID: 590-17966-1 Project/Site: Simplot Warden Lab Sample ID: 590-17966-1 Client Sample ID: SVE-Soil-July7-9Pre1 Date Collected: 07/07/22 12:29 Matrix: Solid Date Received: 07/07/22 14:43 **General Chemistry** Analyte RL **RL** Unit D Dil Fac Result Qualifier Prepared Analyzed 0.01 0.01 % 07/07/22 17:01 **Percent Moisture** 9.8 0.01 0.01 % 07/07/22 17:01 **Percent Solids** 90.2 Client Sample ID: SVE-Soil-July7-9Pre1 Lab Sample ID: 590-17966-1 Date Collected: 07/07/22 12:29 Matrix: Solid Date Received: 07/07/22 14:43 Percent Solids: 90.2 Method: 8011 - EDB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac <u>~</u> 1,2-Dibromoethane (EDB) ND 0.054 0.038 ug/Kg 07/08/22 09:44 07/08/22 10:47 Client Sample ID: SVE-Soil-July7-9Pre2 Lab Sample ID: 590-17966-2 Date Collected: 07/07/22 12:32 **Matrix: Solid** Date Received: 07/07/22 14:43 **General Chemistry** Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 0.01 0.01 % 07/07/22 17:01 **Percent Moisture** 10.3 0.01 % **Percent Solids** 89.7 0.01 07/07/22 17:01 Client Sample ID: SVE-Soil-July7-9Pre2 Lab Sample ID: 590-17966-2 Date Collected: 07/07/22 12:32 Matrix: Solid Date Received: 07/07/22 14:43 Percent Solids: 89.7 Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 07/08/22 09:44 07/08/22 11:34 1.2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.052 0.036 ug/Kg Client Sample ID: SVE-Soil-July7-9Pre3 Lab Sample ID: 590-17966-3 Date Collected: 07/07/22 12:34 Matrix: Solid Date Received: 07/07/22 14:43 **General Chemistry** Analyte Result Qualifier RL **RL** Unit D Prepared Analyzed Dil Fac 0.01 0.01 % 07/07/22 17:01 **Percent Moisture** 9.0 **Percent Solids** 91.0 0.01 0.01 % 07/07/22 17:01 Lab Sample ID: 590-17966-3 Client Sample ID: SVE-Soil-July7-9Pre3 Date Collected: 07/07/22 12:34 **Matrix: Solid** Date Received: 07/07/22 14:43 Percent Solids: 91.0 Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 07/08/22 09:44 07/08/22 11:50 1,2-Dibromoethane (EDB) ND 0.050 0.035 ug/Kg Client Sample ID: SVE-Soil-July7-9Pre4 Lab Sample ID: 590-17966-4 Date Collected: 07/07/22 12:37 Matrix: Solid

RL

0.01

Date Received: 07/07/22 14:43

Result Qualifier

9.5

General Chemistry

Percent Moisture

Analyte

Eurofins Spokane

Dil Fac

7/8/2022

Analyzed

07/07/22 17:01

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D

Prepared

RL Unit

0.01 %

Client Sample Results

Client: HDR Inc Job ID: 590-17966-1

Project/Site: Simplot Warden

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

Lab Sample ID: 590-17966-4 Date Collected: 07/07/22 12:37 **Matrix: Solid**

Date Received: 07/07/22 14:43

General Chemistry (Continued) Analyte RL **RL** Unit Analyzed Dil Fac Result Qualifier D Prepared **Percent Solids** 0.01 0.01 % 07/07/22 17:01 90.5

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

Lab Sample ID: 590-17966-4 Date Collected: 07/07/22 12:37 **Matrix: Solid** Percent Solids: 90.5

Date Received: 07/07/22 14:43

Method: 8011 - EDB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,2-Dibromoethane (EDB) ND 0.051 0.036 ug/Kg

Client Sample ID: Trip Blank Lab Sample ID: 590-17966-5

Date Collected: 07/07/22 00:00 Date Received: 07/07/22 14:43

Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed 0.049 07/08/22 09:44 07/08/22 12:22 1,2-Dibromoethane (EDB) ND 0.034 ug/Kg

Matrix: Solid

QC Sample Results

Client: HDR Inc Job ID: 590-17966-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-36962/2-A

Matrix: Solid

Analysis Batch: 36961

MB MB

Sample Sample

Sample Sample

 $\overline{\mathsf{ND}}$

Result Qualifier

ND

Result Qualifier

Analyte

Result Qualifier 1,2-Dibromoethane (EDB)

RL 0.050 ND

MDL Unit 0.035 ug/Kg

Prepared

Analyzed 07/08/22 09:44 07/08/22 10:17

Prep Type: Total/NA

Prep Batch: 36962

Prep Type: Total/NA

Prep Batch: 36962

Lab Sample ID: LCS 590-36962/3-A

Matrix: Solid

Analysis Batch: 36961

Spike Added 1.00

Spike

Added

1.08

Spike

Added

1.05

1.21

LCS LCS Result Qualifier

MS MS

MSD MSD

DU DU

10.5

89.5

Result Qualifier

0.915

0.950

Result Qualifier

Unit ug/Kg

D %Rec 121

%Rec Limits 60 - 140

Client Sample ID: Method Blank

Lab Sample ID: 590-17966-1 MS

Matrix: Solid

Analysis Batch: 36961

1,2-Dibromoethane (EDB)

Analyte

1,2-Dibromoethane (EDB)

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

Analysis Batch: 36961

Analyte 1,2-Dibromoethane (EDB)

Method: Moisture - Percent Moisture

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

Analysis Batch: 36957

Sample Sample Analyte Result Qualifier Percent Moisture 9.8 90.2 Percent Solids

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36962 %Rec

Limits Unit D %Rec 85 60 - 140 ug/Kg

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

Prep Type: Total/NA

Prep Batch: 36962 %Rec **RPD**

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

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

Prep Type: Total/NA

RPD Result Qualifier Unit D **RPD** Limit % 6 20 % 0.7 20

Eurofins Spokane

7/8/2022

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Dil Fac

Client: HDR Inc

Project/Site: Simplot Warden

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

Date Collected: 07/07/22 12:29 Date Received: 07/07/22 14:43 Lab Sample ID: 590-17966-1

Matrix: Solid

Job ID: 590-17966-1

	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			36957	07/07/22 17:01	NMI	TAL SPK

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

Date Collected: 07/07/22 12:29 Date Received: 07/07/22 14:43

Lab Sample ID: 590-17966-1 **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			10.26 g	2 mL	36962	07/08/22 09:44	NMI	TAL SPK
Total/NA	Analysis	8011		1			36961	07/08/22 10:47	NMI	TAL SPK

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

Date Collected: 07/07/22 12:32 Date Received: 07/07/22 14:43

Lab Sample ID: 590-17966-2

Matrix: Solid

Matrix: Solid

TAL SPK

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

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

Date Collected: 07/07/22 12:32 Date Received: 07/07/22 14:43

Lab Sample ID: 590-17966-2 **Matrix: Solid** Percent Solids: 89.7

Lab Sample ID: 590-17966-3

Lab Sample ID: 590-17966-4

07/07/22 17:01 NMI

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

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

Date Collected: 07/07/22 12:34

Date Received: 07/07/22 14:43

Total/NA

Date Neceived. 0	1101122 14	.43									_
	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	

1

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

Moisture

Analysis

Date Collected: 07/07/22 12:34

Lab Sample ID: 590-17966-3 Matrix: Solid Date Received: 07/07/22 14:43 Percent Solids: 91.0

36957

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

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

Date Collected: 07/07/22 12:37

Date Received: 07/07/22 14:43

_										
	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			36957	07/07/22 17:01	NMI	TAL SPK

Eurofins Spokane

Matrix: Solid

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Lab Chronicle

Client: HDR Inc Job ID: 590-17966-1

Project/Site: Simplot Warden

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

Lab Sample ID: 590-17966-4 Date Collected: 07/07/22 12:37 **Matrix: Solid**

Date Received: 07/07/22 14:43 Percent Solids: 90.5

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

Lab Sample ID: 590-17966-5 **Client Sample ID: Trip Blank**

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

Date Received: 07/07/22 14:43

	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	36962	07/08/22 09:44	NMI	TAL SPK
Total/NA	Analysis	8011		1			36961	07/08/22 12:22	NMI	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-17966-1

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: 590-17966-1

Project/Site: Simplot Warden

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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Chain of Custody Record

💸 eurofins

Environme t I sting

11922 Eas	st 1st Ave
Spokane	WA 99206

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

	Jered Newcomb, J											Carrier Tracking No(s): COC No:						
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Jered Newcomb Company:	509-899-4371		PWSID:	R	andee.	.Arrir	ngtor	n@et.eu	urofins	sus.con	n	WA						Page 1 of 1 Job #:
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Email: jered.newcomb@hdrinc.com	WO #:				Ž	3										l	y	I ice U Acetone J DI Water V MCAA
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Deliverable Requested II III, IV Other (specify)	bn B L Inov	V/I	kadiological			Spe		nstructi				Dispos nts	аг су	LaD		-117	CH	ive For Months
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Relinquished by: Jered Newcomb	Date/Time: 7/7/22	14.	43	ompany				ved by	1/0		<u> </u>				artings:			7/7/22 Company JP
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Relinquished by:	Date/Time:		c	ompany			Recei	ved by:	- v					Dat	e/Time:			Company
Custody Seals Intact: Custody Seal No. Δ Yes Δ No	age 13	3 of 1	4	Coole	r Temper	ature(s)	°C and	Other Re	marks:			28	JC.		(Um) 1800 6 7/8/202			

Client: HDR Inc Job Number: 590-17966-1

Login Number: 17966 List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

oreator. Vaugilan, 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



Environment Testing America

ANALYTICAL REPORT

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

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

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

Attn: Jered Newcomb

Authorized for release by:

7/12/2022 4:26:47 PM

Randee Arrington, Lab Director (509)924-9200

Randee.Arrington@et.eurofinsus.com



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: 590-17997-1

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Case Narrative

Client: HDR Inc Job ID: 590-17997-1

Project/Site: Simplot Warden

Job ID: 590-17997-1

Laboratory: Eurofins Spokane

Narrative

Receipt

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

GC Semi VOA

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

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

General Chemistry

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

Organic Prep

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

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Sample Summary

Client: HDR Inc Job ID: 590-17997-1

Project/Site: Simplot Warden

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

Definitions/Glossary

Client: HDR Inc Job ID: 590-17997-1

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

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Client Sample Results Client: HDR Inc Job ID: 590-17997-1 Project/Site: Simplot Warden Lab Sample ID: 590-17997-1 Client Sample ID: SVE-Soil-July11-10Pre1 Date Collected: 07/11/22 12:34 Matrix: Solid Date Received: 07/11/22 14:34 **General Chemistry** Analyte RL **RL** Unit D Dil Fac Result Qualifier Prepared Analyzed 0.01 0.01 % 07/11/22 16:11 **Percent Moisture** 9.4 0.01 0.01 % 07/11/22 16:11 **Percent Solids** 90.6 Client Sample ID: SVE-Soil-July11-10Pre1 Lab Sample ID: 590-17997-1 Date Collected: 07/11/22 12:34 Matrix: Solid Date Received: 07/11/22 14:34 Percent Solids: 90.6 Method: 8011 - EDB Result Qualifier Analyte RL **MDL** Unit D Prepared Analyzed Dil Fac 1,2-Dibromoethane (EDB) ND F2 0.052 0.036 ug/Kg 07/12/22 11:04 07/12/22 12:41 Client Sample ID: SVE-Soil-July11-10Pre2 Lab Sample ID: 590-17997-2 Date Collected: 07/11/22 12:37 **Matrix: Solid** Date Received: 07/11/22 14:34 **General Chemistry** Analyte Result Qualifier RL **RL** Unit Analyzed Prepared Dil Fac 0.01 0.01 % 07/11/22 16:11 **Percent Moisture** 10.6 0.01 % **Percent Solids** 89.4 0.01 07/11/22 16:11 Client Sample ID: SVE-Soil-July11-10Pre2 Lab Sample ID: 590-17997-2 Date Collected: 07/11/22 12:37 **Matrix: Solid** Date Received: 07/11/22 14:34 Percent Solids: 89.4 Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 07/12/22 11:04 07/12/22 13:30 1.2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.054 0.038 ug/Kg Client Sample ID: SVE-Soil-July11-10Pre3 Lab Sample ID: 590-17997-3 Date Collected: 07/11/22 12:40 Matrix: Solid Date Received: 07/11/22 14:34 **General Chemistry** Analyte Result Qualifier RL **RL** Unit D Prepared Analyzed Dil Fac 0.01 0.01 % 07/11/22 16:11 **Percent Moisture** 9.9 **Percent Solids** 90.1 0.01 0.01 % 07/11/22 16:11 Client Sample ID: SVE-Soil-July11-10Pre3 Lab Sample ID: 590-17997-3 Date Collected: 07/11/22 12:40 **Matrix: Solid** Date Received: 07/11/22 14:34 Percent Solids: 90.1 Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 1,2-Dibromoethane (EDB) ND 0.055 07/12/22 11:04 07/12/22 13:46 0.039 ug/Kg Client Sample ID: SVE-Soil-July11-10Pre4 Lab Sample ID: 590-17997-4 Date Collected: 07/11/22 12:43 Matrix: Solid Date Received: 07/11/22 14:34 **General Chemistry**

Eurofins Spokane

Analyzed

07/11/22 16:11

Page 6 of 14

RL

0.01

RL Unit

0.01 % D

Prepared

Result Qualifier

10.1

Analyte

Percent Moisture

7/12/2022

Dil Fac

Client Sample Results

Client: HDR Inc Job ID: 590-17997-1

Project/Site: Simplot Warden

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

Lab Sample ID: 590-17997-4 Date Collected: 07/11/22 12:43 **Matrix: Solid**

Date Received: 07/11/22 14:34

General Chemistry (Continued)

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

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

Date Collected: 07/11/22 12:43

Date Received: 07/11/22 14:34

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

Percent Solids: 89.9

Method: 8011 - EDB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,2-Dibromoethane (EDB) ND 0.052 0.036 ug/Kg

Client Sample ID: Trip Blank

Date Collected: 07/11/22 00:00

Date Received: 07/11/22 14:34

Lab Sample ID: 590-17997-5

Matrix: Solid

Method: 8011 - EDB

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

Eurofins Spokane

QC Sample Results

Client: HDR Inc Job ID: 590-17997-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-37003/2-A

Matrix: Solid

Analyte

Analysis Batch: 37007

1,2-Dibromoethane (EDB)

1,2-Dibromoethane (EDB)

MB MB

Sample Sample

ND F2

Sample Sample

ND F2

Result Qualifier

Result Qualifier

Result Qualifier ND

RL 0.050

MDL Unit 0.035 ug/Kg **Prepared**

07/12/22 11:04 07/12/22 12:08

Client Sample ID: Method Blank

Analyzed Dil Fac

Prep Type: Total/NA

Prep Batch: 37003

Prep Type: Total/NA

Prep Batch: 37003

Lab Sample ID: LCS 590-37003/3-A

Matrix: Solid

Analysis Batch: 37007

Spike Added 1.00

Spike

Added

1.08

Spike

Added

1.05

Result Qualifier 1.28

LCS LCS

MS MS

MSD MSD

0.757 F2

DU DU

8.6

91.4

Result Qualifier

1.03

Result Qualifier

Unit

Unit

ug/Kg

Unit

ug/Kg

%

D %Rec ug/Kg

60 - 140 128

Client Sample ID: Lab Control Sample

%Rec Limits

Lab Sample ID: 590-17997-1 MS

Matrix: Solid

Analysis Batch: 37007

Analyte

1,2-Dibromoethane (EDB) Lab Sample ID: 590-17997-1 MSD

Matrix: Solid Analysis Batch: 37007

Analyte 1,2-Dibromoethane (EDB)

Method: Moisture - Percent Moisture

Lab Sample ID: 590-17997-1 DU

Matrix: Solid Analysis Batch: 36992

Sample Sample Analyte Result Qualifier Percent Moisture 9.4 90.6 Percent Solids

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

Prep Type: Total/NA

Prep Batch: 37003 %Rec

Limits D %Rec 95 60 - 140

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

Prep Type: Total/NA Prep Batch: 37003

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

0.9

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

Prep Type: Total/NA

60 - 140

RPD Result Qualifier Unit D **RPD** Limit % 9 20

Eurofins Spokane

7/12/2022

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Job ID: 590-17997-1

Project/Site: Simplot Warden

Client: HDR Inc

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

Date Collected: 07/11/22 12:34 Date Received: 07/11/22 14:34

Lab Sample ID: 590-17997-1

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			36992	07/11/22 16:11	NMI	TAL SPK

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

Date Collected: 07/11/22 12:34 Date Received: 07/11/22 14:34

Lab Sample ID: 590-17997-1

Lab Sample ID: 590-17997-2

Lab Sample ID: 590-17997-2

Lab Sample ID: 590-17997-3

Lab Sample ID: 590-17997-3

Lab Sample ID: 590-17997-4

Matrix: Solid Percent Solids: 90.6

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 90.1

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

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

Date Collected: 07/11/22 12:37

Date Received: 07/11/22 14:34

	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			36992	07/11/22 16:11	NMI	TAL SPK

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

Date Collected: 07/11/22 12:37 Date Received: 07/11/22 14:34

Matrix: Solid Percent Solids: 89.4

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

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

Date Collected: 07/11/22 12:40

Date Received: 07/11/22 14:34

	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			36992	07/11/22 16:11	NMI	TAL SPK

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

Date Collected: 07/11/22 12:40

Date Received: 07/11/22 14:34

	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			36992	07/11/22 16:11	NMI	TAL SPK

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

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

Date Collected: 07/11/22 12:43

Date Received: 07/11/22 14:34

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	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			36992	07/11/22 16:11	NMI	TAL SPK

Eurofins Spokane

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7/12/2022

Lab Chronicle

Client: HDR Inc Job ID: 590-17997-1

Project/Site: Simplot Warden

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

Lab Sample ID: 590-17997-4 Date Collected: 07/11/22 12:43 **Matrix: Solid**

Percent Solids: 89.9

Date Received: 07/11/22 14:34

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

Lab Sample ID: 590-17997-5 **Client Sample ID: Trip Blank**

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

Date Received: 07/11/22 14:34

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

Laboratory References:

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

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-17997-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	uthority Pro		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: 590-17997-1

Project/Site: Simplot Warden

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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Chain of Custody Record

👶 eurofins

Enviror men Testing Ar er Ja

Phone (509) 924-9200 Phone (509) 924-9290																				
Client Information	Sampler Jered Newcomb	b JAN		А	ab PM: .rringto	on R	and	ee E				Carr	ier Traci	dng No(s	s):		CC	OC Ño:		
Client Contact: Jered Newcomb	Phone: 509-899-4371				-Mai Randee	ə.Arri	ingto	n@et.	.eurofi	nsus.c	om	Stat W.A	e of Orig	in:				Page: Page 1 of 1		
Company: HDR Inc			PWSID:						-	Analy	sis R	eque	sted				Job #:			
Address. 835 N Post St. Ste 101	Due Date Request	ed.																reservation Cod		
City: Spokane State, Zip:	TAT Requested (d	lays): 24 ho	>ur													e hand a fill a mobile in	B C	NaOH Carlo NaOH Carlo Nacetate Nitric Acid	M Hexans N None O AsNaO P Na2O4)2
WA, 99202	Compliance Projec	ct: ∆ Yes	∆ No															NaHSO4 MeOH	Q Na2SO R Na2S2	03
Phone: 509-899-4371	PO #: Purchase Orde	r Requested	t.															Amchlor Ascorbic Acid	S H2SO4	
Email: jered newcomb@hdrinc.com	WO#:				N TO	(o)										e	J	Ice DI Water	U Aceton	
Project Name: Simplot Warden	Project #: 59002373				ا پڑا	JO S										containe	L	C EDTA EDA	W pH 4-5 Z other (s	specify)
Site: Warden WA	SSOW#:					SD (Ye										uoo jo		ther [.]		
Sample Identification	Sample Date	Sample Time	(C=Comp, G=grab)	W=water S=solid, O=waste/oi BT=Tissue A=Air)	Field Filtere		8011 EDB									Total Number o		Special In	estructions	s/Note.
			Preservation	on Code	<u>* </u>	X	N				<u>.</u>					_ ≥	4_			
SVE-Soil-July (1 10Pre1	7/ / /2022	[33]	G	S	N	N	Х													
SVE-Soil-July (10Pre2	7/ \\ /2022	1237	G	S	N	N	Х													
SVE-Soil-July (\ 10Pre3	7/ / /2022	1240	G	s	N	N	Х													
SVE-Soil-July 10Pre4	7/ \ /2022	[243	G	s	N	N	Х													
Trip Blank				s	N	N	Х						// n on							
															<i>.</i>	0 s				
															of Custo			//////////////////////////////////////		
											Ī.,	590-	17997							
														Chain	of Cust			<i> </i>		
				•											1	Øy_		'4 <i> </i> -		
																	T			
Possible Hazard Identification		п													les are	_		d longer than 1	f month)	
Non-Hazard Flammable Skin Irritant Po. Deliverable Requested II III IV Other (specify)	ison B Unki	nown []	Radiological						To Clie		equirer	Disp	osal B	/ Lab	·	≟ Arc	chive	re For	Month	າຣ
						<u> </u>	clai	manu	CHOHS/	QC N	equirei	rierits								
Empty Kit Relinquished by		Date:			Ti	me:							Metho	d of Ship				•		
Relinquished by: Jered Newcomb	Date/Time:	2 14	134 °	ompany			Rece	ived by	: 					Dat	e/Time:				Company	
Relinquished by:	Date/fime:		Co	ompany			Rece	ived by				•		Dat	e/Time:				Company	
Relinquished by:	Date/Time:		Cc	ompany			Rece	ived by	L.		SCOTTONIAN INVESTOR	Andrew Commen		Day -	effime:	122	7	1434	Company	TSFO
Custody Seals Intact: Custody Seal No. Δ Yes Δ No			Р	age 1	3 of	14	Cobfe	er Temp	erature	(s) [©] C ar	nd Other	Remark	^{(s.} 4	118	(0/))	1	Reol		7/12/202

Client: HDR Inc Job Number: 590-17997-1

Login Number: 17997 List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

Groutor: Vaugnari, madicori 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.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

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

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

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

Attn: Jered Newcomb

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

Randee Arrington, Lab Director (509)924-9200

Randee.Arrington@et.eurofinsus.com

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Review your project results through

EOL

Have a Question?

Ask
The
Expert

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: 590-18027-1

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Case Narrative

Client: HDR Inc Job ID: 590-18027-1

Project/Site: Simplot Warden

Job ID: 590-18027-1

Laboratory: Eurofins Spokane

Narrative

Receipt

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

Sample Summary

Client: HDR Inc Job ID: 590-18027-1

Project/Site: Simplot Warden

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

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Definitions/Glossary

Client: HDR Inc Job ID: 590-18027-1

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

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Client Sample Results Client: HDR Inc Job ID: 590-18027-1 Project/Site: Simplot Warden Lab Sample ID: 590-18027-1 Client Sample ID: SVE-Soil-July13-11Pre1 Date Collected: 07/13/22 12:47 Matrix: Solid Date Received: 07/14/22 08:07 **General Chemistry** Analyte RL **RL** Unit D Result Qualifier Prepared Analyzed Dil Fac 0.01 0.01 % 07/14/22 15:16 **Percent Moisture** 10.8 0.01 0.01 % 07/14/22 15:16 **Percent Solids** 89.2 Client Sample ID: SVE-Soil-July13-11Pre1 Lab Sample ID: 590-18027-1 Date Collected: 07/13/22 12:47 Matrix: Solid Date Received: 07/14/22 08:07 Percent Solids: 89.2 Method: 8011 - EDB Result Qualifier Analyte RL **MDL** Unit D Prepared Analyzed Dil Fac 1,2-Dibromoethane (EDB) ND F2 0.055 0.038 ug/Kg 07/14/22 11:22 07/14/22 13:05 Client Sample ID: SVE-Soil-July13-11Pre2 Lab Sample ID: 590-18027-2 Date Collected: 07/13/22 12:50 **Matrix: Solid** Date Received: 07/14/22 08:07 **General Chemistry** Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 0.01 0.01 % 07/14/22 15:16 **Percent Moisture** 9.1 0.01 % **Percent Solids** 90.9 0.01 07/14/22 15:16 Client Sample ID: SVE-Soil-July13-11Pre2 Lab Sample ID: 590-18027-2 Date Collected: 07/13/22 12:50 Matrix: Solid Date Received: 07/14/22 08:07 Percent Solids: 90.9 Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 07/14/22 11:22 07/14/22 13:54 1.2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.053 0.037 ug/Kg Client Sample ID: SVE-Soil-July13-11Pre3 Lab Sample ID: 590-18027-3 Date Collected: 07/13/22 12:52 Matrix: Solid Date Received: 07/14/22 08:07 **General Chemistry** Analyte Result Qualifier RL **RL** Unit D Prepared Analyzed Dil Fac 0.01 0.01 % 07/14/22 15:16 **Percent Moisture** 8.0 **Percent Solids** 92.0 0.01 0.01 % 07/14/22 15:16 Client Sample ID: SVE-Soil-July13-11Pre3 Lab Sample ID: 590-18027-3 Date Collected: 07/13/22 12:52 **Matrix: Solid** Date Received: 07/14/22 08:07 Percent Solids: 92.0 Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 07/14/22 11:22 07/14/22 14:11 1,2-Dibromoethane (EDB) ND 0.054 0.038 ug/Kg Client Sample ID: SVE-Soil-July13-11Pre4 Lab Sample ID: 590-18027-4

Eurofins Spokane

Analyzed

07/14/22 15:16

Matrix: Solid

Page 6 of 14

RL

0.01

RL Unit

0.01 %

D

Prepared

Result Qualifier

9.7

Date Collected: 07/13/22 12:55

Date Received: 07/14/22 08:07

General Chemistry

Percent Moisture

Analyte

7/15/2022

Dil Fac

Client Sample Results

Client: HDR Inc Job ID: 590-18027-1

Project/Site: Simplot Warden

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

Lab Sample ID: 590-18027-4 Date Collected: 07/13/22 12:55 **Matrix: Solid**

Date Received: 07/14/22 08:07

General Chemistry (Continued) Analyte RL **RL** Unit Result Qualifier D Prepared **Percent Solids** 0.01 0.01 % 07/14/22 15:16 90.3

Result Qualifier

ND

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

Date Received: 07/14/22 08:07

Date Collected: 07/13/22 12:55

Method: 8011 - EDB Analyte

1,2-Dibromoethane (EDB) **Client Sample ID: Trip Blank**

Date Collected: 07/13/22 00:00

Date Received: 07/14/22 08:07

Method: 8011 - EDB

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

RL

0.054

MDL Unit

0.038 ug/Kg

Analyzed

Analyzed

Lab Sample ID: 590-18027-4

Lab Sample ID: 590-18027-5

Prepared

Dil Fac

Dil Fac

Matrix: Solid

Matrix: Solid

Percent Solids: 90.3

QC Sample Results

Client: HDR Inc Job ID: 590-18027-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-37055/3-A

Matrix: Solid

Analysis Batch: 37054

MB MB

Result Qualifier Analyte 1,2-Dibromoethane (EDB)

RL 0.050 ND

MDL Unit 0.035 ug/Kg

Analyzed **Prepared** 07/14/22 09:52 07/14/22 12:16

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37055

Prep Type: Total/NA

Prep Batch: 37055

Lab Sample ID: LCS 590-37055/4-A

Matrix: Solid

Analysis Batch: 37054

Spike Added 1.00

1.31

LCS LCS

Result Qualifier

Unit ug/Kg

D %Rec 131

Limits 60 - 140

%Rec

Client Sample ID: Method Blank

Lab Sample ID: 590-18027-1 MS

Matrix: Solid

Analysis Batch: 37054

1,2-Dibromoethane (EDB)

1,2-Dibromoethane (EDB)

Analyte

Sample Sample Result Qualifier ND F2

Spike Added 4.45

MS MS Result Qualifier 3.94

Unit ug/Kg

Unit

%

%

D %Rec Limits 60 - 140

%Rec

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

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

Prep Type: Total/NA

Prep Batch: 37055

Prep Type: Total/NA

Prep Batch: 37055

Lab Sample ID: 590-18027-1 MSD

Matrix: Solid

Analyte

Analysis Batch: 37054

Sample Sample Result Qualifier 1,2-Dibromoethane (EDB) ND F2

Spike Added 4.45

MSD MSD Result Qualifier 2.93 F2

Unit ug/Kg %Rec

D

%Rec Limits 60 - 140

RPD Limit 20

RPD

Method: Moisture - Percent Moisture

Lab Sample ID: 590-18027-4 DU

Matrix: Solid

Percent Moisture

Percent Solids

Analysis Batch: 37073

Analyte

DU DU Sample Sample Result Qualifier Result Qualifier 9.7 9.1 90.3 90.9

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

Prep Type: Total/NA

RPD RPD Limit 6 20 0.7 20

Eurofins Spokane

7/15/2022

Dil Fac

Client: HDR Inc

Project/Site: Simplot Warden

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

Date Collected: 07/13/22 12:47 Date Received: 07/14/22 08:07

Lab Sample ID: 590-18027-1

Matrix: Solid

Job ID: 590-18027-1

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

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

Date Collected: 07/13/22 12:47 Date Received: 07/14/22 08:07

Lab Sample ID: 590-18027-1

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 10.24 g 2 mL 37055 07/14/22 11:22 NMI TAL SPK Total/NA Analysis 8011 37054 07/14/22 13:05 NMI TAL SPK 1

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

Date Collected: 07/13/22 12:50 Date Received: 07/14/22 08:07

Lab Sample ID: 590-18027-2

Matrix: Solid

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

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

Date Collected: 07/13/22 12:50 Date Received: 07/14/22 08:07

Lab Sample ID: 590-18027-2 **Matrix: Solid** Percent Solids: 90.9

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

1

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

Date Received: 07/14/22 08:07

Lab Sample ID: 590-18027-3 Date Collected: 07/13/22 12:52 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			37073	07/14/22 15:16	NMI	TAL SPK

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

Date Collected: 07/13/22 12:52

Lab Sample ID: 590-18027-3 Matrix: Solid Date Received: 07/14/22 08:07 Percent Solids: 92.0

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

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

Date Collected: 07/13/22 12:55

Date Received: 07/14/22 08:07

_										
	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			37073	07/14/22 15:16	NMI	TAL SPK

Eurofins Spokane

Matrix: Solid

Lab Sample ID: 590-18027-4

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7/15/2022

Lab Chronicle

Client: HDR Inc Job ID: 590-18027-1

Project/Site: Simplot Warden

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

Lab Sample ID: 590-18027-4 Date Collected: 07/13/22 12:55

Matrix: Solid

Date Received: 07/14/22 08:07 Percent Solids: 90.3

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

Lab Sample ID: 590-18027-5 **Client Sample ID: Trip Blank**

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

Date Received: 07/14/22 08:07

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

Laboratory References:

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

Eurofins Spokane

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-18027-1

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: 590-18027-1

Project/Site: Simplot Warden

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

Spokane, WA 99206

Chain of Custody Record

Arrington, Randee E

Sampler:

Jered Newcomb, JAN

💸 eurofins

COC No:

Carrier Tracking No(s):

Enviror me America

ent	festing	

Client Information Jered Newcomb, JAN				Arrington, Randee E																			
Client Contact: Jered Newcomb	Phone: 509-899-4371				-Mail: Rande	e.An	ringte	on@	et.eu	rofins	sus.c	om		State o	of O <i>r</i> igin):				Page: Page 1 of 1			
Company: HDR Inc			PWSID.							A	naly	sis I	Req	uest	ed					Job #:			
Address: 835 N Post St. Ste. 101	Due Date Requeste	ed•																		Preservation C		Hexane	
City: Spokane	TAT Requested (da	ays): 24 ho	ur																	B NaOH C Zn Acelate	N O	None AsNaO2	
State, Zip: WA, 99202	Compliance Project	t: A Yes	A No]										D Nitric Acid E NaHSO4	Q	Na2O4S Na2SO3	
Phone: 509-899-4371	PO #: Purchase Order					٦														F MeOH G Amchior H Ascorbic Acid	s	Na2S2O3 H2SO4 TSP Dodec	ahydrate
Email: jered.newcomb@hdrinc.com	WO #:				Z zo s	2													Š	i ice J Di Water K EDTA	v	Acetone MCAA pH 4-5	
Project Name: Simplot Warden	Project #: 59002373				The CV's														containe	L EDA		other (speci	ify)
Sile: Warden WA	SSOW#:				L. L.	Sey) OSI								ļ					D Jo	Other·			
Sample identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab) Preservati	(W=wate S=solid O=wasteld BT-Tissu A=Air)	r, e iii	WY . YEARS	Z 8011 EDB	1				×							Total Number	Special	Instru	tctions/N	ote:
SVE-Soil-July 2 11Pre1	7/ \3 /2022	1247	G	S		I N	1		<u> </u>								98	حدد ال	r				
SVE-Soil-July 3 11Pre2	7/ } /2022	1250	G	s		N N	×	1							1		1					_	
SVE-Soil-July(3 11Pre3	7/ 3 /2022	1257	G	s		N N	×			T													
SVE-Soil-July\3 11Pre4	7/ [] /2022	1255	G	s	١	N N	×	T															
Trip Blank				S	1	N N	Х						"" 	I				I					
													590	-180	27 C	ain o	f Cus	lody					
					_	╁	-	_		┼-		H	\vdash	\dashv	_	\top		1	70000				
						+		+	+	-				+			+	-					
Possible Hazard Identification						Sa	mpl	le Dis	spos	al (A	fee	may	be a	ssess	sed if	sam	oles a	re re	taln	1 ed longer tha	n 1 mc	onth)	
Non-Hazard ammable Solitant Pois Deliverable Requested: I II III IV Other (specify)	sbn B	iown L	Radiological		_	Sn			<i>rn To</i> tructio			eguire			al By	Lab		<u>L</u>	Arch	ive For		Months	
					1-					J. 10, G		· ·			المراء ال	at Ob!							
Empty Kit Relinquished by		Date:	Tr	ompany		ime:			K.						Method		ite/,Tim				Ic.	maaau	
Relinquished by: Jered Newcomb	Pate(Time:	7.5	0				· \	eived		بر	f	m	Ø	1		-	1/10	10	22	0807		mpany /	(Je)
Relinquished by:	Date/Time:			Company									U				ileHim					mpany	
Relinquished by:	Date/Time:		I	Company	_		Rec	eived	by:							Da	ite/Tim	e:			Co	mpany	
Custody Seals Intact: Custody Seal No Δ Yes Δ No				Page	13 (of 1	C00	oler Te	empera	ture(s)°Cal	nd Othe	er Ren	narks:		4	. [)C	ر			7/1	5/2022
																		CO	m	HAROX	<u> </u>		

Client: HDR Inc Job Number: 590-18027-1

Login Number: 18027 List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

Oroator: Vaagnan, maalot	201 T		
Question		Answer	Comment
Radioactivity wasn't checke meter.	ed or is = background as measured by a survey</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, i	f present, is intact.	N/A	
Sample custody seals, if pr	esent, are intact.	N/A	
The cooler or samples do nation tampered with.	ot appear to have been compromised or	True	
Samples were received on	ice.	True	
Cooler Temperature is acce	eptable.	True	
Cooler Temperature is reco	rded.	True	
COC is present.		True	
COC is filled out in ink and	legible.	True	
COC is filled out with all pe	rtinent information.	True	
Is the Field Sampler's name	e present on COC?	True	
There are no discrepancies	between the containers received and the COC.	True	
Samples are received withi HTs)	n Holding Time (excluding tests with immediate	True	
Sample containers have leg	gible labels.	True	
Containers are not broken of	or leaking.	True	
Sample collection date/time	es are provided.	True	
Appropriate sample contain	ers are used.	True	
Sample bottles are complete	tely filled.	True	
Sample Preservation Verific	ed.	N/A	
There is sufficient vol. for a MS/MSDs	ll requested analyses, incl. any requested	True	
Containers requiring zero h <6mm (1/4").	eadspace have no headspace or bubble is	True	
Multiphasic samples are no	t present.	True	
Samples do not require spli	itting or compositing.	True	
Residual Chlorine Checked	l.	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: 590-18119-1 Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb

Authorized for release by:

7/22/2022 4:31:24 PM

Randee Arrington, Lab Director (509)924-9200

Randee.Arrington@et.eurofinsus.com

.....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: 590-18119-1

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Receint Checklists	14

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Case Narrative

Client: HDR Inc Job ID: 590-18119-1

Project/Site: Simplot Warden

Job ID: 590-18119-1

Laboratory: Eurofins Spokane

Narrative

Receipt

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

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Sample Summary

Client: HDR Inc Job ID: 590-18119-1

Project/Site: Simplot Warden

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

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Definitions/Glossary

Client: HDR Inc Job ID: 590-18119-1

Project/Site: Simplot Warden

Qualifiers

General Chemistry

Qualifier Description

F3 Duplicate RPD exceeds the control limit

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: 590-18119-1 Project/Site: Simplot Warden Client Sample ID: SVE-Soil-July21-12Pre1 Lab Sample ID: 590-18119-1 Date Collected: 07/21/22 07:58 **Matrix: Solid** Date Received: 07/21/22 14:56 Method: 8011 - EDB Analyte RL **MDL** Unit D Analyzed Dil Fac Result Qualifier Prepared 1,2-Dibromoethane (EDB) 0.046 0.032 ug/Kg 07/22/22 08:58 07/22/22 11:20 **General Chemistry** Result Qualifier RL RL Unit Analyte D Prepared Analyzed Dil Fac 0.01 0.01 % 07/22/22 10:25 **Percent Moisture** 10.1 0.01 % 07/22/22 10:25 **Percent Solids** 89.9 0.01 Client Sample ID: SVE-Soil-July21-12Pre2 Lab Sample ID: 590-18119-2 Date Collected: 07/21/22 08:00 **Matrix: Solid** Date Received: 07/21/22 14:56 Method: 8011 - EDB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 07/22/22 09:01 07/22/22 12:09 1,2-Dibromoethane (EDB) ND 0.049 0.035 ug/Kg **General Chemistry** Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac **Percent Moisture** 0.01 0.01 % 07/22/22 10:25 9.4 **Percent Solids** 90.6 0.01 0.01 % 07/22/22 10:25

Client Sample ID: SVE-Soil-July21-12Pre3 Lab Sample ID: 590-18119-3 Date Collected: 07/21/22 08:04 **Matrix: Solid**

Date Received: 07/21/22 14:56

Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	Result ND	Qualifier	RL 0.049	MDL 0.035	Unit ug/Kg	<u>D</u>	Prepared 07/22/22 09:01	Analyzed 07/22/22 12:26	Dil Fac
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.01	0.01	%			07/22/22 10:25	1
Percent Solids	89.8		0.01	0.01	%			07/22/22 10:25	1

Client Sample ID: SVE-Soil-July21-12Pre4 Lab Sample ID: 590-18119-4 Date Collected: 07/21/22 08:06 Matrix: Solid

Date Received: 07/21/22 14:56

Method: 8011 - EDB Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.048	0.034	ug/Kg		07/22/22 09:01	07/22/22 12:42	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.6		0.01	0.01	%			07/22/22 10:25	1
Percent Solids	89.4		0.01	0.01	%			07/22/22 10:25	1

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Client Sample Results

Client: HDR Inc Job ID: 590-18119-1

Project/Site: Simplot Warden

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

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

Date Collected: 07/21/22 07:50 Date Received: 07/21/22 14:56

Method: 8011 - EDB Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1,2-Dibromoethane (EDB) ND 0.049 0.034 ug/Kg 07/22/22 09:01 07/22/22 12:59 **General Chemistry** Result Qualifier RL **RL** Unit Analyte D Prepared Analyzed Dil Fac 0.01 0.01 % 07/22/22 10:25 **Percent Moisture** 9.5 0.01 % 07/22/22 10:25 **Percent Solids** 90.5 0.01

Client Sample ID: Trip Blank Lab Sample ID: 590-18119-6

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

Date Received: 07/21/22 14:56

Method: 8011 - EDB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.047 07/22/22 09:01 07/22/22 13:31 1,2-Dibromoethane (EDB) ND 0.033 ug/Kg

QC Sample Results

Client: HDR Inc Job ID: 590-18119-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-37180/2-A

Matrix: Solid

Analysis Batch: 37182

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37180

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

Lab Sample ID: LCS 590-37180/3-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

1.00

0.979

Analysis Batch: 37182

1,2-Dibromoethane (EDB)

Spike

ND

ND

MB MB

LCS LCS Added

Result Qualifier Unit 1.13 ug/Kg

D %Rec 113 Prep Batch: 37180

%Rec Limits

60 - 140

Lab Sample ID: 590-18119-1 MS Client Sample ID: SVE-Soil-July21-12Pre1 Prep Type: Total/NA

Matrix: Solid

Analyte

Analyte

Analysis Batch: 37182

1,2-Dibromoethane (EDB)

Sample Sample Spike Result Qualifier Added

MS MS Result Qualifier 0.959

Unit

%Rec

Prep Batch: 37180

Prep Type: Total/NA

Limits %Rec 60 - 140 ug/Kg

Lab Sample ID: 590-18119-1 MSD Client Sample ID: SVE-Soil-July21-12Pre1

Matrix: Solid

Analysis Batch: 37182

1,2-Dibromoethane (EDB)

Spike Sample Sample Result Qualifier Added

MSD MSD 0.990 1.10

Result Qualifier Unit ug/Kg

D %Rec

Prep Batch: 37180 %Rec Limits **RPD** 60 - 140

RPD Limit 20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-18119-1 DU

Matrix: Solid

Analysis Batch: 37188

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

Prep Type: Total/NA

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

Eurofins Spokane

Job ID: 590-18119-1

Project/Site: Simplot Warden

Client: HDR Inc

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

Date Collected: 07/21/22 07:58 Date Received: 07/21/22 14:56

Lab Sample ID: 590-18119-1

Matrix: Solid

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

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

Date Collected: 07/21/22 08:00 Date Received: 07/21/22 14:56

Lab Sample ID: 590-18119-2

Lab Sample ID: 590-18119-3

Lab Sample ID: 590-18119-4

Lab Sample ID: 590-18119-5

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

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

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

Date Collected: 07/21/22 08:04

Date Received: 07/21/22 14:56

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

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

Date Collected: 07/21/22 08:06

Date Received: 07/21/22 14:56

_	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	37180	07/22/22 09:01	NMI	TAL SPK
Total/NA	Analysis	8011		1			37182	07/22/22 12:42	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37188	07/22/22 10:25	NMI	TAL SPK

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

Date Collected: 07/21/22 07:50

Date Received: 07/21/22 14:56

	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	37180	07/22/22 09:01	NMI	TAL SPK
Total/NA	Analysis	8011		1			37182	07/22/22 12:59	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37188	07/22/22 10:25	NMI	TAL SPK

Eurofins Spokane

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Lab Chronicle

Client: HDR Inc Job ID: 590-18119-1

Project/Site: Simplot Warden

Client Sample ID: Trip Blank

Lab Sample ID: 590-18119-6

Date Collected: 07/21/22 00:00 **Matrix: Solid** Date Received: 07/21/22 14:56

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

Laboratory References:

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

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-18119-1

Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	Pr	rogram	Identification Number	Expiration Date
Washington	St	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: 590-18119-1

Project/Site: Simplot Warden

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

11922 East 1st Ave

Spokane, WA 99206

Client Information

Client Contact:

Chain of Custody Record

Sampler

Phone:

Jered Newcomb, JAN

Lab PM:

E-Mail:

Arrington, Randee E

💸 eurofins

COC No:

Page:

Carrier Tracking No(s):

State of Origin:

Environment Testing

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Jered Newcomb	509-899-4371			Ran	ıdee	.Arri	ngto	n@et	.eurc	ofinsu	s.cor	n	١	NA_							Page 1 of 1		
Company: HDR Inc			PWSID:						::: :::	Ana	alys	is R	equ	ies	ted						Job #:		
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Email: jered.newcomb@hdrinc.com	WO #:				s or h	No)													Ì	2.1	J DI Water 1	U Acetone V MCAA W pH 4-5	
Project Name: Simplot Warden	Project #: 59002373				le (Ye	10 93					ĺ									Ē		Z other (specify)	
Site: Warden WA	ssow#:				Samp	U OSI														5	Other.		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil,	Field Filtered	Perform MS/M	8011 EDB					***************************************								Total Number	Special Inst	tructions/Note:	
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Client: HDR Inc Job Number: 590-18119-1

Login Number: 18119 List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

orottor. Vaugnari, maaison 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	

Eurofins Spokane



Environment Testing America

ANALYTICAL REPORT

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

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

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

Attn: Jered Newcomb

Authorized for release by:

7/26/2022 10:41:06 AM

Randee Arrington, Lab Director (509)924-9200

Randee.Arrington@et.eurofinsus.com

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: 590-18150-1

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Case Narrative

Client: HDR Inc Job ID: 590-18150-1

Project/Site: Simplot Warden

Job ID: 590-18150-1

Laboratory: Eurofins Spokane

Narrative

Receipt

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

GC Semi VOA

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

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

General Chemistry

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

Organic Prep

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

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Sample Summary

Client: HDR Inc Job ID: 590-18150-1

Project/Site: Simplot Warden

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

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Definitions/Glossary

Client: HDR Inc Job ID: 590-18150-1

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

Duplicate Error Ratio (normalized absolute difference) **DER**

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)

Estimated Detection Limit (Dioxin) **EDL** 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 MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

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**

Relative Error Ratio (Radiochemistry) **RER**

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) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Client Sample Results

Client: HDR Inc Job ID: 590-18150-1 Project/Site: Simplot Warden Client Sample ID: SVE-Soil-July25-13Pre1 Lab Sample ID: 590-18150-1 Date Collected: 07/25/22 12:42 **Matrix: Solid** Date Received: 07/25/22 14:40

Method: 8011 - EDB Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	F2	0.048	0.034	ug/Kg		07/25/22 15:46	07/25/22 23:11	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.01	0.01	%			07/25/22 15:34	1
Percent Solids	89.8		0.01	0.01	%			07/25/22 15:34	1

Client Sample ID: SVE-Soil-July25-13Pre2	Lab Sample ID: 590-18150-2
Date Collected: 07/25/22 12:45	Matrix: Solid
Data Bassiyad: 07/25/22 14:40	

Method: 8011 - EDB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.048	0.034	ug/Kg		07/25/22 15:46	07/26/22 00:00	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.01	0.01	%			07/25/22 15:34	1
Percent Solids	91.6		0.01	0.01	%			07/25/22 15:34	1

Client Sample ID: SVE-Soil-July25-13Pre3	Lab Sample ID: 590-18150-3
Date Collected: 07/25/22 12:49	Matrix: Solid

Date Received: 07/25/22 14:40

Method: 8011 - EDB Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.048	0.034	ug/Kg		07/25/22 15:46	07/26/22 00:15	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.01	0.01	%			07/25/22 15:34	1
Percent Solids	89.8		0.01	0.01	%			07/25/22 15:34	1

Client Sample ID: SVE-Soil-July25-13Pre4	Lab Sample ID: 590-18150-4
Date Collected: 07/25/22 12:51	Matrix: Solid

Date Received: 07/25/22 14:40

Method: 8011 - EDB Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		07/25/22 15:48		1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.01	0.01	%			07/25/22 15:34	1
Percent Solids	90.4		0.01	0.01	%			07/25/22 15:34	1

Eurofins Spokane

7/26/2022

Client Sample Results

Client: HDR Inc Job ID: 590-18150-1

Project/Site: Simplot Warden

Client Sample ID: Trip Blank Lab Sample ID: 590-18150-5

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

Date Received: 07/25/22 14:40

Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,2-Dibromoethane (EDB) ND 0.046 0.032 ug/Kg 07/25/22 15:50 07/26/22 00:47

QC Sample Results

Client: HDR Inc Job ID: 590-18150-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-37210/1-A

Matrix: Solid Analysis Batch: 37211

1,2-Dibromoethane (EDB)

MB MB

Result Qualifier

RL 0.050 ND

MDL Unit

LCS LCS

0.035 ug/Kg

Prepared

Client Sample ID: Method Blank

Analyzed Dil Fac 07/25/22 15:46 07/25/22 22:39

Prep Type: Total/NA

Prep Batch: 37210

Prep Type: Total/NA

Prep Batch: 37210

Lab Sample ID: LCS 590-37210/2-A

Matrix: Solid

Analyte

Analysis Batch: 37211

1,2-Dibromoethane (EDB)

Spike Added 1.00

1.21

Result Qualifier

Unit ug/Kg D %Rec 121

Limits 60 - 140

%Rec

Client Sample ID: Lab Control Sample

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

Prep Type: Total/NA

Prep Batch: 37210

Analysis Batch: 37211 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec 1,2-Dibromoethane (EDB) ND F2 0.981 0.796 ug/Kg

Lab Sample ID: 590-18150-1 MSD

Lab Sample ID: 590-18150-1 MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 37211

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

Prep Batch: 37210

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

Eurofins Spokane

Job ID: 590-18150-1

Project/Site: Simplot Warden

Client: HDR Inc

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

Lab Sample ID: 590-18150-1 Date Collected: 07/25/22 12:42

Matrix: Solid

Date Received: 07/25/22 14:40

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

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

Lab Sample ID: 590-18150-2

Date Collected: 07/25/22 12:45 **Matrix: Solid** Date Received: 07/25/22 14:40

	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	37210	07/25/22 15:46	NMI	TAL SPK
Total/NA	Analysis	8011		1			37211	07/26/22 00:00	NMI	TAL SPK
Total/NA	Analysis	Moisture		1			37208	07/25/22 15:34	NMI	TAL SPK

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

Lab Sample ID: 590-18150-3 Matrix: Solid Date Collected: 07/25/22 12:49

Date Received: 07/25/22 14:40

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

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

Lab Sample ID: 590-18150-4 Date Collected: 07/25/22 12:51

Date Received: 07/25/22 14:40

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

Lab Sample ID: 590-18150-5 **Client Sample ID: Trip Blank**

Date Collected: 07/25/22 00:00 Matrix: Solid

Date Received: 07/25/22 14:40

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

Laboratory References:

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

Eurofins Spokane

Matrix: Solid

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-18150-1

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: 590-18150-1

Project/Site: Simplot Warden

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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Chain of Custody Record

eurofi

ins	Environ ne it Testing	
	Air erica	
		2
		3
Cod	es.	А
	M Hexane	4
	N None O AsNaO2 P Na2O4S	5
	Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate	6
cid	T TSP Dodecahydrate U Acetone V MCAA W pH 4-5	7
	Z other (specify)	8
		9
al Ins	structions/Note:	10
		11
		12

Spokane, WA 99206	(∍naın e	or Custo	oay F	Kec	:01	ra											T, Caronia	Environ ne it Testing Air erica
Phone (509) 924-9200 Phone (509) 924-9290	Sampler	h IAN		Lab I		. D.	ndo	. E					Carrier T	racking	No(s):			COC No:	
Client Information Client Contact:	Jered Newcomi Phone:	J, JAN		E-Ma									State of 6	Origin:				Page:	
Jered Newcomb	509-899-4371			Rar	ndee.	Arrin	ngtor	n@et.e	eurofi	insus	.com		WA					Page 1 of 1	
Company: HDR Inc			PWSID:							Ana	lvsis	Rea	ueste	d				Job #:	"
Address: 835 N Post St. Ste. 101	Due Date Request	ed:									Ī							Preservation Cod	es.
city: Spokane	TAT Requested (d	ays): 24 ho	ur	<u></u>	1													A HCL B NaOH C Zn Acetate	M Hexane N None O AsNaO2
State, Zip:					1					ŀ								D Nitric Acid	P Na2O4S
WA, 99202 Phone:	Compliance Project PO #:	ct: A Yes	A No		4 6					ľ								E NaHSO4 F MeOH	Q Na2SO3 R Na2S2O3
509-899-4371	Purchase Orde	r Requested																G Amchlor H Ascorbic Acid	S H2SO4 T TSP Dodecahydrate
Email: jered.newcomb@hdrinc.com	WO#:				Sor	2											Ł	l Ice J DIWater	U Acetone V MCAA
Project Name: Simplot Warden	Project #: 59002373				sle (Ye	8											containe		W pH 4-5 Z other (specify)
Site: Warden WA	SSOW#:				ju j	8											S to	Other [,]	
		Sample		MATTIX (W=water, S=solid, D=waste/oll, BT=Ticsue,	d Filtered	MSW mio	11 EDB										Total Number		
Sample Identification	Sample Date	Time	G≕grab)	A=AI)	Ü	WOMEN . NO	804		a-10, 00-								Ē	Special Ins	structions/Note:
		~	Preservatio		X	X۱				4	-			1_			- 25		
SVE-Soil-July 入方 13Pre1	7/ 入ら/2022	1247	G	S	N	N	×				_			_					
SVE-Soil-July 🔀 13Pre2	71 25 12022		G	S	N	N	X												
SVE-Soil-July)に 13Pre3	7/)5 /2022	1249	G	S	N	N	х												
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Trip Blank				s	N	N	x												
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Possible Hazard Identification			<u> </u>		1	Sam	ple	Dispo	sal (A fe	e may	be as	ssesse	d if s	ample	s are r	etain	ed longer than 1	month)
Non-Hazard ammable Si itant Pois	bn Br	iown [Radiological					turn T					isposal	By La	ab		Arch	ive For	Months
Deliverable Requested: I II III IV Other (specify)						Spec	cial li	nstruc	tions	/QC F	Requi	remen	ts:						
Empty Kit Relinquished by		Date:			Tim	ie:							Me	thod of	Shipme	nt:			
Relinquished by: Jered Newcomb	Date/Time: アクスト人よ	14	38 00	mpany		F	Receiv	ved by:	,		/				Date/1	ime:			Company
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Custody Seals Intact: Custody Seal No. Δ Yes Δ No			Pa	ge 12	of 1		cooler	Tempe	rature	(s) °C	and Otl	her Ren	narks:	2	62			d 16006	7/26/2022

Client: HDR Inc Job Number: 590-18150-1

Login Number: 18150 List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</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: 590-18172-1 Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb

Authorized for release by:

7/28/2022 5:00:51 PM

Randee Arrington, Lab Director (509)924-9200

Randee.Arrington@et.eurofinsus.com

Largue tringto

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: 590-18172-1

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Method Summary	12
Chain of Custody	13
Receint Checklists	15

Case Narrative

Client: HDR Inc Job ID: 590-18172-1

Project/Site: Simplot Warden

Job ID: 590-18172-1

Laboratory: Eurofins Spokane

Narrative

Receipt

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

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Sample Summary

Client: HDR Inc Job ID: 590-18172-1

Project/Site: Simplot Warden

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

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Definitions/Glossary

Client: HDR Inc Job ID: 590-18172-1

Project/Site: Simplot Warden

Glossary

ML

MPN

MQL

NC

ND

NEG

POS

PQL

QC RER

RL

RPD TEF

TEQ

TNTC

PRES

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Method Quantitation Limit

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

Client: HDR Inc

	Client Sam	ple ID:	SVE-Soil-Ju	ly27-14Pre1
--	------------	---------	-------------	-------------

Date Collected: 07/27/22 11:20 Date Received: 07/27/22 13:50 Lab Sample ID: 590-18172-1

Matrix: Solid

General Che	emistry									
Analyte		Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moist	ure	9.8		0.01	0.01	%			07/27/22 15:26	1
Percent Solids	5	90.2		0.01	0.01	%			07/27/22 15:26	1

Client Sample ID: SVE-Soil-July27-14Pre1 Lab Sample ID: 590-18172-1

Date Collected: 07/27/22 11:20 Date Received: 07/27/22 13:50

Matrix: Solid Percent Solids: 90.2

Method: 8011 - EDB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.036	ug/Kg	*	07/27/22 16:16	07/27/22 18:21	1

Client Sample ID: SVE-Soil-July27-14Pre2 Lab Sample ID: 590-18172-2 Date Collected: 07/27/22 11:20 **Matrix: Solid**

Date Received: 07/27/22 13:50

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

Client Sample ID: SVE-Soil-July27-14Pre2 Lab Sample ID: 590-18172-2

Date Collected: 07/27/22 11:20 Date Received: 07/27/22 13:50

Matrix: Solid Percent Solids: 90.2

Method: 8011 - EDB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	<u></u>	07/27/22 16:16	07/27/22 19:11	1

Client Sample ID: SVE-Soil-July27-14Pre3 Lab Sample ID: 590-18172-3 Date Collected: 07/27/22 11:20 Matrix: Solid

Date Received: 07/27/22 13:50

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

Client Sample ID: SVE-Soil-July27-14Pre3 Lab Sample ID: 590-18172-3

Date Collected: 07/27/22 11:20 **Matrix: Solid** Date Received: 07/27/22 13:50 Percent Solids: 90.0

Method: 8011 - EDB								
Analyte	Result Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	0.052	0.036	ug/Kg	₩	07/27/22 16:16	07/27/22 19:28	1

Client Sample ID: SVE-Soil-July27-14Pre4 Lab Sample ID: 590-18172-4 Date Collected: 07/27/22 11:20 Matrix: Solid

Date Received: 07/27/22 13:50

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

Eurofins Spokane

Client Sample Results

Client: HDR Inc Job ID: 590-18172-1

Project/Site: Simplot Warden

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

Lab Sample ID: 590-18172-4 Date Collected: 07/27/22 11:20

Matrix: Solid

Date Received: 07/27/22 13:50

General Chemistry (Continued) Analyte Result Qualifier RLRL Unit D Prepared Analyzed Dil Fac 0.01 0.01 07/27/22 15:26 **Percent Solids** 90.6

Client Sample ID: SVE-Soil-July27-14Pre4 Lab Sample ID: 590-18172-4

Date Collected: 07/27/22 11:20 **Matrix: Solid**

Date Received: 07/27/22 13:50 Percent Solids: 90.6

Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 1,2-Dibromoethane (EDB) ND 0.055 07/27/22 16:16 07/27/22 19:45 0.038 ug/Kg

Client Sample ID: Trip Blank Lab Sample ID: 590-18172-5

Date Collected: 07/27/22 00:00 **Matrix: Solid**

Date Received: 07/27/22 13:50

Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,2-Dibromoethane (EDB) ND 0.047 0.033 ug/Kg 07/27/22 16:38 07/27/22 20:01

Job ID: 590-18172-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-37262/2-A

Lab Sample ID: LCS 590-37262/3-A

Matrix: Solid

Matrix: Solid

Client: HDR Inc

Analysis Batch: 37263

1,2-Dibromoethane (EDB)

Analysis Batch: 37263

1,2-Dibromoethane (EDB)

мв мв

Analyte

Result Qualifier

ND

RLMDL Unit 0.050 0.035 ug/Kg

1.12

Prepared 07/27/22 16:16

D

07/27/22 17:47

Client Sample ID: Method Blank

Prep Batch: 37262 Dil Fac Analyzed

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 37262

%Rec

60 - 140

Spike LCS LCS Added Result Qualifier Unit D %Rec Limits

ug/Kg

Lab Sample ID: 590-18172-1 MS

Matrix: Solid

Analysis Batch: 37263

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

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

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

112

Prep Type: Total/NA

Prep Batch: 37262

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

1.00

Lab Sample ID: 590-18172-1 MSD

Matrix: Solid

Analyte

1,2-Dibromoethane (EDB)

Analysis Batch: 37263

Sample Sample Spike

Added

1.09

MSD MSD Result Qualifier

1.09

DU DU

Qualifier

Result

9.7

90.3

Unit ug/Kg

%Rec D 100 ä

Prep Batch: 37262 %Rec

RPD Limit Limits 60 - 140 12 20

Prep Type: Total/NA

Prep Type: Total/NA

Method: Moisture - Percent Moisture

Lab Sample ID: 590-18172-1 DU

Matrix: Solid

Analysis Batch: 37260

Result

ND

90.2

Qualifier

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

Lab Sample ID: 590-18172-2 DU

Matrix: Solid

Percent Solids

Analysis Batch: 37260

Sample Sample Analyte Result Qualifier Percent Moisture 9.8

Unit

%

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

> RPD **RPD** Limit

> > **Eurofins Spokane**

7/28/2022

0.05

20

Client: HDR Inc

Project/Site: Simplot Warden

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

Date Collected: 07/27/22 11:20 Date Received: 07/27/22 13:50 Lab Sample ID: 590-18172-1

Lab Sample ID: 590-18172-2

Lab Sample ID: 590-18172-2

Lab Sample ID: 590-18172-3

Lab Sample ID: 590-18172-3

Lab Sample ID: 590-18172-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Job ID: 590-18172-1

_	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			37260	07/27/22 15:26	NMI	TAL SPK

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

Date Collected: 07/27/22 11:20 Date Received: 07/27/22 13:50

Lab Sample ID: 590-18172-1 **Matrix: Solid** Percent Solids: 90.2

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

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

Date Collected: 07/27/22 11:20

Date Received: 07/27/22 13:50

	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			37260	07/27/22 15:26	NMI	TAL SPK

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

Date Collected: 07/27/22 11:20

Matrix: Solid Date Received: 07/27/22 13:50 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			10.47 g	2 mL	37262	07/27/22 16:16	NMI	TAL SPK
Total/NA	Analysis	8011		1			37263	07/27/22 19:11	NMI	TAL SPK

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

Date Collected: 07/27/22 11:20

Date Received: 07/27/22 13:50

	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			37260	07/27/22 15:26	NMI	TAL SPK

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

	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			37260	07/27/22 15:26	NMI	TAL SPK

Date Collected: 07/27/22 11:20 **Matrix: Solid** Date Received: 07/27/22 13:50 Percent Solids: 90.0

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

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

Date Collected: 07/27/22 11:20

Date Received: 07/27/22 13:50

Date Received. 077	21722 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			37260	07/27/22 15:26	NMI	TAL SPK

Eurofins Spokane

Matrix: Solid

Lab Chronicle

Client: HDR Inc Job ID: 590-18172-1

Project/Site: Simplot Warden

Date Received: 07/27/22 13:50

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

Date Collected: 07/27/22 11:20

Lab Sample ID: 590-18172-4

Matrix: Solid

Percent Solids: 90.6

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

Client Sample ID: Trip Blank Lab Sample ID: 590-18172-5

Date Collected: 07/27/22 00:00 Matrix: Solid

Date Received: 07/27/22 13:50

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

Laboratory References:

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

Eurofins Spokane

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-18172-1

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	S	State	C569	01-06-23
The following analytes the agency does not of	' '	out the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for wh
the agency does not of	ici oci illication.			
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: 590-18172-1

Project/Site: Simplot Warden

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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Chain of Custody Record

11922 East 1st Ave Spokane, WA 99206

Environ nent Testing

America

Phone (509) 924-9200 Phone (509) 924-9290																					
Client Information	Sampler Jered Newcomb	, JAN			ь РМ: rringtor	n, Ra	ande	еE				C	arrier	Tracki	ng No)(s):			Ľ	COC No:	
Client Contact: Jered Newcomb	Phone: 509-899-4371				Mail: andee.	.Arri	nator	@et.e	urofins	sus.c	em		tate o VA	f Origin	n:					Page: Page 1 of 1	
Company:			PWSID:					~											_	Job#:	
HDR Inc					2000	mindida (Ada			A	naly	sis I	Requ	est	<u>ed</u>							
Address: 835 N Post St. Ste 101	Due Date Requeste	d:																		Preservation Code: A HCL	s M Hexane
City: Spokane	TAT Requested (da	ys): 24 ho	ur		Annual Control of the															B NaOH I C Zn Acetate	N None O AsNaO2 P Na2O4S
State, Zip: WA, 99202	Compliance Projec	t: Λ Yes	\ No			i e e						-						ŀ	1	E NaHSO4	Q Na2SO3 R Na2SO3
	PO#: Purchase Order	Requested																	: .	H Ascorbic Acid	S H2SO4 T TSP Dodecahydrate
Email: jered.newcomb@hdrinc.com	WO #:				s or No	(oy													Ę	J DI Water	U Acetone V MCAA W pH 4-5
Project Name: Simplot Warden	Project #: 59002373				ole (Yes	99)													圍	L EDA	Z other (specify)
Site: Warden WA	SSOW#:				Samp	N) as	ļ												8	Olher [.]	
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Chain of Custody Record

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Environment Testing America

11922 East 1st Ave Spokane, WA 99206

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

Client Information	Sempler Jered Newcomb	, JAN			ib PM: trinal		Rande	e E					ľ	Carrie	r Trac	king i	No(s):				COC No:		
Client Contact:	Phone: 509-899-4371		##. **	E-	Mail:				t our					State	of Ori	gin:					Page:		\neg
Jered Newcomb Company:	1309-059-4373		PWSID:		anue	e.An	ringto	nwe	t.eun			-									Page 1 of 1 Joh#:		
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WA, 99202 Phone:	Compliance Project	cti "A. Yes	Δ No		_																F MeOH	Q Na2SO3 R Na2S2O3	
509-899-4371	Purchase Order	r Requested				6														3	G Amehlor H Ascorble Acid	S H2SO4 T TSP Dodecahydr	rate
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Client: HDR Inc Job Number: 590-18172-1

Login Number: 18172 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	

ANALYTICAL REPORT

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

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

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

Attn: Jered Newcomb

Authorized for release by:

8/1/2022 5:17:51 PM

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: 590-18194-1

Table of Contents

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Case Narrative

Client: HDR Inc Job ID: 590-18194-1

Project/Site: Simplot Warden

Job ID: 590-18194-1

Laboratory: Eurofins Spokane

Narrative

Receipt

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

GC Semi VOA

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

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

General Chemistry

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

Organic Prep

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

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Sample Summary

Client: HDR Inc Job ID: 590-18194-1

Project/Site: Simplot Warden

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

Definitions/Glossary

Client: HDR Inc Job ID: 590-18194-1

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

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Client Sample Results Client: HDR Inc Job ID: 590-18194-1 Project/Site: Simplot Warden Lab Sample ID: 590-18194-1 Client Sample ID: SVE-Soil-July29-15Pre1 Date Collected: 07/29/22 08:15 Matrix: Solid Date Received: 07/29/22 10:25 **General Chemistry** Analyte RL **RL** Unit D Dil Fac Result Qualifier Prepared Analyzed 0.01 0.01 % 08/01/22 09:30 **Percent Moisture** 10.2 0.01 0.01 % 08/01/22 09:30 **Percent Solids** 89.8 Client Sample ID: SVE-Soil-July29-15Pre1 Lab Sample ID: 590-18194-1 Date Collected: 07/29/22 08:15 Matrix: Solid Date Received: 07/29/22 10:25 Percent Solids: 89.8 Method: 8011 - EDB Result Qualifier Analyte RL **MDL** Unit D Prepared Analyzed Dil Fac <u>~</u> 1,2-Dibromoethane (EDB) ND F2 0.052 0.036 ug/Kg 08/01/22 08:30 08/01/22 10:05 Client Sample ID: SVE-Soil-July29-15Pre2 Lab Sample ID: 590-18194-2 Date Collected: 07/29/22 08:17 **Matrix: Solid** Date Received: 07/29/22 10:25 **General Chemistry** Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 0.01 0.01 % 08/01/22 09:30 **Percent Moisture** 9.5 0.01 % **Percent Solids** 90.5 0.01 08/01/22 09:30 Client Sample ID: SVE-Soil-July29-15Pre2 Lab Sample ID: 590-18194-2 Date Collected: 07/29/22 08:17 Matrix: Solid Date Received: 07/29/22 10:25 Percent Solids: 90.5 Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.052 08/01/22 08:30 08/01/22 10:54 1.2-Dibromoethane (EDB) $\overline{\mathsf{ND}}$ 0.036 ug/Kg Client Sample ID: SVE-Soil-July29-15Pre3 Lab Sample ID: 590-18194-3 Date Collected: 07/29/22 08:19 Matrix: Solid Date Received: 07/29/22 10:25 **General Chemistry** Analyte Result Qualifier RL **RL** Unit D Prepared Analyzed Dil Fac 0.01 0.01 % 08/01/22 09:30 **Percent Moisture** 10.3 **Percent Solids** 89.7 0.01 0.01 % 08/01/22 09:30 Client Sample ID: SVE-Soil-July29-15Pre3 Lab Sample ID: 590-18194-3 Date Collected: 07/29/22 08:19 **Matrix: Solid** Date Received: 07/29/22 10:25 Percent Solids: 89.6 Method: 8011 - EDB Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 08/01/22 08:30 08/01/22 11:11 1,2-Dibromoethane (EDB) 0.054 ND 0.038 ug/Kg Client Sample ID: SVE-Soil-July29-15Pre4 Lab Sample ID: 590-18194-4 Date Collected: 07/29/22 08:21 Matrix: Solid Date Received: 07/29/22 10:25 **General Chemistry**

RL

0.01

Result Qualifier

9.7

Analyte

Percent Moisture

Eurofins Spokane

Dil Fac

8/1/2022

Analyzed

08/01/22 09:30

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Page 6 of 14

D

Prepared

RL Unit

0.01 %

Client Sample Results

Client: HDR Inc Job ID: 590-18194-1

Project/Site: Simplot Warden

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

Lab Sample ID: 590-18194-4 Date Collected: 07/29/22 08:21 **Matrix: Solid**

Date Received: 07/29/22 10:25

General Chemistry (Continued)

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

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

Date Collected: 07/29/22 08:21

Date Received: 07/29/22 10:25

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

Lab Sample ID: 590-18194-5

Percent Solids: 90.3

Matrix: Solid

Method: 8011 - EDB Analyte Result Qualifier

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

Lab Sample ID: 590-18194-5 Client Sample ID: SVE-Soil-July29-15Dup

Date Collected: 07/29/22 08:00

Date Received: 07/29/22 10:25

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

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

Date Collected: 07/29/22 08:00 Matrix: Solid Date Received: 07/29/22 10:25 Percent Solids: 88.8

Method: 8011 - EDB Analyte

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

Client Sample ID: Trip Blank

Date Received: 07/29/22 10:25

Lab Sample ID: 590-18194-6 Date Collected: 07/29/22 00:00 **Matrix: Solid**

Method: 8011 - EDB

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

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QC Sample Results

Client: HDR Inc Job ID: 590-18194-1

Project/Site: Simplot Warden

Method: 8011 - EDB

Lab Sample ID: MB 590-37318/2-A

Matrix: Solid

Analysis Batch: 37326

1,2-Dibromoethane (EDB)

MB MB

Sample Sample

ND F2

Sample Sample

ND F2

89.8

Result Qualifier

Result Qualifier

Analyte

Result Qualifier

RL 0.050 ND

MDL Unit 0.035 ug/Kg

Prepared

08/01/22 08:30 08/01/22 09:33

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Analyzed Dil Fac

Prep Type: Total/NA

Prep Batch: 37318

Prep Type: Total/NA

Prep Batch: 37318

Lab Sample ID: LCS 590-37318/3-A

Matrix: Solid

Analysis Batch: 37326

1,2-Dibromoethane (EDB)

Added 1.00

Spike

Added

1.07

Spike

Added

1.09

Spike

1.04

Result Qualifier

LCS LCS

MS MS

MSD MSD

0.951 F2

DU DU

10.6

89.4

Result Qualifier

0.695

Result Qualifier

Unit ug/Kg

Unit

ug/Kg

D %Rec 104

60 - 140

%Rec

Limits

Lab Sample ID: 590-18194-1 MS

Matrix: Solid

Analysis Batch: 37326

Analyte

1,2-Dibromoethane (EDB)

Lab Sample ID: 590-18194-1 MSD

Matrix: Solid Analysis Batch: 37326

Analyte 1,2-Dibromoethane (EDB)

Method: Moisture - Percent Moisture

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

Percent Solids

Analysis Batch: 37321

Sample Sample Analyte Result Qualifier Percent Moisture 10.2

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

Prep Type: Total/NA

Prep Batch: 37318 %Rec

Limits Unit D %Rec 60 - 140 ug/Kg

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

Prep Batch: 37318

%Rec **RPD** %Rec Limits **RPD** Limit 60 - 140 20

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

Prep Type: Total/NA

RPD Result Qualifier Unit D **RPD** Limit % 20 % 0.5 20

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Job ID: 590-18194-1

Matrix: Solid

Matrix: Solid

TAL SPK

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 90.5

Lab Sample ID: 590-18194-1

Lab Sample ID: 590-18194-1

NMI Lab Sample ID: 590-18194-2

Lab Sample ID: 590-18194-2

Lab Sample ID: 590-18194-3

Lab Sample ID: 590-18194-4

08/01/22 10:05

37326

Project/Site: Simplot Warden

Client: HDR Inc

Total/NA

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

Date Collected: 07/29/22 08:15 Date Received: 07/29/22 10:25

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

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

Date Collected: 07/29/22 08:15 Date Received: 07/29/22 10:25

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 10.78 g 2 mL 37318 08/01/22 08:30 NMI TAL SPK

1

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

8011

Analysis

Date Collected: 07/29/22 08:17

Date Received: 07/29/22 10:25

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

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

Date Collected: 07/29/22 08:17

Date Received: 07/29/22 10:25

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

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

Date Collected: 07/29/22 08:19

Date Received: 07/29/22 10:25

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

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

Lab Sample ID: 590-18194-3 Date Collected: 07/29/22 08:19 Matrix: Solid Date Received: 07/29/22 10:25 Percent Solids: 89.6

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

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

Date Collected: 07/29/22 08:21

Date Received: 07/29/22 10:25

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	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			37321	08/01/22 09:30	NMI	TAL SPK

Eurofins Spokane

Matrix: Solid

Lab Chronicle

Client: HDR Inc Job ID: 590-18194-1

Project/Site: Simplot Warden

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

Lab Sample ID: 590-18194-4 Date Collected: 07/29/22 08:21 Matrix: Solid Date Received: 07/29/22 10:25

Percent Solids: 90.3

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

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

Batch

Method

Moisture

Lab Sample ID: 590-18194-5

Matrix: Solid

TAL SPK

Date Collected: 07/29/22 08:00 Date Received: 07/29/22 10:25

Prep Type

Total/NA

Batch

Type

Analysis

Batch Prepared Number or Analyzed Analyst Lab

08/01/22 09:30

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

Run

Dil

Factor

Lab Sample ID: 590-18194-5

NMI

Date Collected: 07/29/22 08:00 **Matrix: Solid** Date Received: 07/29/22 10:25 Percent Solids: 88.8

Initial

Amount

Final

Amount

37321

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

Client Sample ID: Trip Blank Lab Sample ID: 590-18194-6

Date Collected: 07/29/22 00:00 **Matrix: Solid**

Date Received: 07/29/22 10:25

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

Laboratory References:

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

Accreditation/Certification Summary

Client: HDR Inc Job ID: 590-18194-1

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
The following analyte the agency does not	•	ort, but the laboratory is r	ot certified by the governing authority.	This list may include analytes for which
and agency does not	oner certification.			
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Percent Moisture	

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Method Summary

Client: HDR Inc Job ID: 590-18194-1

Project/Site: Simplot Warden

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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Δ Yes Δ No

11922 East 1st Ave

Chain of Custody Record

eurofins

Environment Testing

Spokane, WA 99206 Phone (509) 924-9200 Phone (509) 924-9290 Lab PM: Carrier Tracking No(s): COC No: Sampler Jered Newcomb, JAN Arrington, Randee E Client Information State of Origin: E-Mail: Page: Client Contact: Phone: Randee.Arrington@et.eurofinsus.com WA Page 1 of 1 Jered Newcomb 509-899-4371 PWSID: Job #: Company: **Analysis Requested** HDR Inc Address: Due Date Requested: Preservation Codes 835 N Post St. Ste 101 A HCL M Hexane TAT Requested (days): N None Spokane 24 hour O AsNaO2 C Zn Acetate D Nitric Acid P Na204S State Zip: E NaHSO4 Q Na2SO3 Compliance Project: A Yes A No WA, 99202 F MeOH R Na2S2O3 Phone: G Amchlor S H2SO4 509-899-4371 Purchase Order Requested H Ascorbic Acid T TSP Dodecahydrate Email: WO #: U Acelone J DI Water V MCAA iered.newcomb@hdrinc.com K EDTA W pH 4-5 Project Name: Project #: L EDA Z other (specify) Simplot Warden 59002373 Other: SSOW#: Warden WA Total Number of Matrix Sample (W≃water, S=solid, Type O=wasteloit, (C≃comp, Sample BT=Tissue, Sample Identification Sample Date Time G=grab) Special instructions/Note (1IA=A Preservation Code: Ν 7/29 /2022 s N Х 15Pre1 G SVE-Soil-July 24 7/ 2^c) /2022 NN s SVE-Soil-July) 15Pre2 G Х NN 7/29 /2022 SVE-Soil-July 3 15Pre3 819 G s Х N N SVE-Soil-July 2 15Pre4 7/29 /2022 G S Х N N 7/29/12022 300 s Х SVE-Soil-July \ 15DUP G NN Trip Blank S Х 590-18194 Chain of Custody Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification Chadiological Return To Client Poison B isposal By Lab ___Archive For Non-Hazard ammable ...hown Months Deliverable Requested: I II III, IV Other (specify) Special Instructions/QC Requirements. Empty Kit Relinquished by: Time Method of Shipment: Date: Date/Time: Company Relinquished by: Jered Newcomb Company 10 24 Relinquished by: Date/Time: Company Date/Time: Relinquished by: Company Received by: Custody Seals Intact: Custody Seal No. Cooler Temperature(s) °C and Other Remarks:

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8/1/2022

Client: HDR Inc Job Number: 590-18194-1

Login Number: 18194 List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

oroator: vaagnan, maaloon 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.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	