# FSS

October 7, 2022

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

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

Dear Christer:

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

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

The AO requires that the progress reports include the following:

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

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#### Activities in September 2022

- Simplot continued SVE operations per the *Cleanup Action Implementation Compliance Monitoring Plan* (CAICMP; HDR revised May 2022) *and SVE Performance Test Plan* (PTP; HDR May 2022).
- Full-scale implementation of performance field data and sample collection has been ongoing since June 8, 2022 and 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. Eurofins has reported all samples through September 2022 as non-detect for EDB with the exception of one detection in Batch 31. Pretreatment sample SVE-Soil-Sept15-31Pre4 results detected 0.062 µg/Kg EDB, which is below the CUL of 0.27 µg/Kg. EDB analytical results for treatment batches 27 through 36 are attached to this memo. The pilot study and treatment batches 1 through 8 are described in the June 2022 Progress Report. Treatment batches 16 through 26 are described in the August 2022 Progress Report.
- Simplot/HDR coordinated with GrayMar to remove Treatment Batch soils 27 through 36 for use as on-site backfill based on non-detect soil sample analytical results, in accordance with the CAIMP and PTP.
- On September 29, 2022, HDR was notified by GrayMar that the estimated remaining volume of soil stockpile requiring treatment was approximately 1,670 cubic yards after Batch 35. The volume of soil per batch varies and could be in the range of 80-115 CY.
- On October 6, ABHL surveyed the project location and determined that the impacted soil stockpile is 1,520 cubic yards. Simplot currently estimates that this is a maximum of 19 remaining batches, and that treatment could be completed by the second week of November.

#### **Anticipated Activities for October 2022**

- Simplot/HDR will continue full-scale implementation of ex-situ SVE. Full-scale performance field data and sample collection will continue in accordance with PTP (HDR May 2022). Simplot will move forward and implement a plan to increase frequency of treatment batch rotations. Treatment batches will be swapped on a frequency of every 48 hours, including weekends. On weekend batch swaps the remediation contractor (GrayMar) will be tasked with conducting soil sampling on Simplot's behalf; HDR to provide sample media. Simplot will task the remediation contractor with the responsibility to manage soils removed from treatment cell prior to receipt of laboratory analytical results including proper segregation, stockpile location tracking, and confirmation that results <CUL prior reuse as on-site backfill. If pre-treatment results are > CUL, the segregated will be re-sampled; if post-treatment sample results are also > CUL, the batch will be placed back into the cell for additional treatment.
- Simplot/HDR to evaluate soil batches for use as on-site backfill in accordance with CAICMP and PTP.
- Simplot/HDR will incorporate SVE remedial activities into the draft cleanup action report and submit to Ecology once SVE operations cease.

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

Respectfully, HDR Engineering, Inc.

Tyler Allen Senior Environmental Scientist

Attachments: Batch 27 Pretreatment EDB 9-2-2022 (J18519-1) Lab Report.pdf Batch 28 Pretreatment EDB 9-7-2022 (J18541-1) Lab Report.pdf Batch 29 Pretreatment EDB 9-9-2022 (J18592-1) Lab Report.pdf Batch 30 Pretreatment EDB 9-13-2022 (J18606-1) Lab Report.pdf Batch 31 Pretreatment EDB 9-15-2022 (J18636-1) Lab Report.pdf Batch 32 Pretreatment EDB 9-19-2022 (J18652-1) Lab Report.pdf Batch 33 Pretreatment EDB 9-21-2022 (J18671-1) Lab Report.pdf Batch 34 Pretreatment EDB 9-23-2022 (J18719-1) Lab Report.pdf Batch 35 Pretreatment EDB 9-27-2022 (J18744-1) Lab Report.pdf Batch 36 Pretreatment EDB 9-29-2022 (J18784-1) Lab Report.pdf

CC: Molly Dimick, J.R. Simplot Company

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

## Laboratory Job ID: 590-18519-1

Client Project/Site: Simplot Warden

## For:

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

Attn: Jered Newcomb

Candre Arrington

Authorized for release by: 9/6/2022 3:52:21 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.

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

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#### Job ID: 590-18519-1

#### Laboratory: Eurofins Spokane

Narrative

#### Receipt

The samples were received on 9/2/2022 11:55 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 3.3° C.

#### GC Semi VOA

Method 8011: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 590-37908 and analytical batch 590-37909 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### **General Chemistry**

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

#### **Organic Prep**

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

## **Sample Summary**

#### Client: HDR Inc Project/Site: Simplot Warden

Lab Sample ID

590-18519-1

590-18519-2 590-18519-3

590-18519-4

590-18519-5

כ	Client Sample ID	Matrix	Collected	Received
	SVE-Soil-Sept 2-27Pre1	Solid	09/02/22 09:45	09/02/22 11:55
	SVE-Soil-Sept 2-27Pre2	Solid	09/02/22 09:47	09/02/22 11:55
	SVE-Soil-Sept 2-27Pre3	Solid	09/02/22 09:49	09/02/22 11:55
	SVE-Soil-Sept 2-27Pre4	Solid	09/02/22 09:51	09/02/22 11:55
	Trip Blank	Solid	09/02/22 09:45	09/02/22 11:55

# **Definitions/Glossary**

5

# Qualifiers

Qualifier	
	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
Glossary	

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# **Client Sample Results**

	Client				
Client: HDR Inc Project/Site: Simplot Warden		-			Job ID: 590-18519-1
Client Sample ID: SVE-So Date Collected: 09/02/22 09:45 Date Received: 09/02/22 11:55	il-Sept 2-27Pre1				Lab Sample ID: 590-18519-1 Matrix: Solid
General Chemistry Analyte	Result Qualifier	RL	RI	Unit	D Prepared Analyzed Dil Fac
Percent Moisture	10.9	0.01			$\frac{1}{09/02/22} \frac{1}{12} \frac{1}{100} $
Percent Solids	89.1	0.01	0.01	%	09/02/22 14:18 1
Client Sample ID: SVE-So Date Collected: 09/02/22 09:45 Date Received: 09/02/22 11:55	il-Sept 2-27Pre1				Lab Sample ID: 590-18519-1 Matrix: Solid Percent Solids: 89.1
Method: 8011 - EDB Analyte	Result Qualifier	RL	мы	Unit	D Prepared Analyzed Dil Fac
1,2-Dibromoethane (EDB)	ND F1	0.052		ug/Kg	□         □
Client Sample ID: SVE-So Date Collected: 09/02/22 09:47 Date Received: 09/02/22 11:55	il-Sept 2-27Pre2				Lab Sample ID: 590-18519-2 Matrix: Solid
General Chemistry Analyte	Result Qualifier	RL	RL	Unit	D Prepared Analyzed Dil Fac
Percent Moisture	15.8	0.01	0.01	%	09/02/22 14:18 1
Percent Solids	84.2	0.01	0.01	%	09/02/22 14:18 1
Date Collected: 09/02/22 09:47 Date Received: 09/02/22 11:55 Method: 8011 - EDB Analyte	Result Qualifier	RL	MDI	Unit	Matrix: Solid Percent Solids: 84.2 D Prepared Analyzed Dil Fac
1,2-Dibromoethane (EDB)	ND	0.054		ug/Kg	$\frac{1}{2} = \frac{1}{09/02/22} + \frac{1}{100} + \frac$
Client Sample ID: SVE-So Date Collected: 09/02/22 09:49 Date Received: 09/02/22 11:55	il-Sept 2-27Pre3				Lab Sample ID: 590-18519-3 Matrix: Solid
General Chemistry Analyte	Result Qualifier	RL	RI	Unit	D Prepared Analyzed Dil Fac
,				•••••	
Percent Moisture	10.1	0.01	0.01	%	<u> </u>
Percent Moisture Percent Solids	10.1 89.9	0.01			
	89.9		0.01		09/02/22 14:18 1
Percent Solids Client Sample ID: SVE-So Date Collected: 09/02/22 09:49 Date Received: 09/02/22 11:55 Method: 8011 - EDB	89.9 il-Sept 2-27Pre3	0.01	0.01	%	09/02/22 14:18         1           09/02/22 14:18         1           Lab Sample ID: 590-18519-3         Matrix: Solid           Percent Solids: 89.9
Percent Solids Client Sample ID: SVE-So Date Collected: 09/02/22 09:49 Date Received: 09/02/22 11:55	89.9		0.01 0.01 MDL		09/02/22 14:18         1           09/02/22 14:18         1           Lab Sample ID: 590-18519-3         Matrix: Solid
Percent Solids Client Sample ID: SVE-Sol Date Collected: 09/02/22 09:49 Date Received: 09/02/22 11:55 Method: 8011 - EDB Analyte	89.9 iI-Sept 2-27Pre3 Result Qualifier	0.01	0.01 0.01 MDL	% Unit	09/02/22 14:18         1           09/02/22 14:18         1           Lab Sample ID: 590-18519-3         Matrix: Solid           Percent Solids: 89.9           D         Prepared         Analyzed         Dil Fac
Percent Solids Client Sample ID: SVE-Sol Date Collected: 09/02/22 09:49 Date Received: 09/02/22 11:55 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Sol Date Collected: 09/02/22 09:51	89.9 iI-Sept 2-27Pre3 Result Qualifier	0.01	0.01 0.01 MDL 0.038	% Unit	Og/02/22 14:18         1           09/02/22 14:18         1           Lab Sample ID: 590-18519-3         Matrix: Solid           Percent Solids: 89.9         Dil Fac           ∞         09/02/22 15:52         09/02/22 19:18         1           Lab Sample ID: 590-18519-4         Dil Fac

# **Client Sample Results**

Client: HDR Inc								
							Job ID: 590-'	8519-1
Project/Site: Simplot Warden								
Client Sample ID: SVE-S	oil-Sept 2-27Pre4				L	ab Sampl	e ID: 590-18	3519-4
Date Collected: 09/02/22 09:5								c: Solid
Date Received: 09/02/22 11:55							matrix	
General Chemistry (Continu	led)							
Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.1	0.01	0.01	%			09/02/22 14:18	1
Client Sample ID: SVE-S	oil-Sept 2-27Pre4				L	ab Sampl	e ID: 590-18	3519-4
Date Collected: 09/02/22 09:5								c: Solid
Date Received: 09/02/22 11:55							Percent Solic	
								13. 30.1
Method: 8011 - EDB								
Method: 8011 - EDB Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result Qualifier	<b>RL</b> 0.053	<b>MDL</b> 0.037	Unit ug/Kg		Prepared 09/02/22 15:52		Dil Fac
Analyte 1,2-Dibromoethane (EDB)	ND				— <u> </u>	09/02/22 15:52		1
Analyte 1,2-Dibromoethane (EDB) Client Sample ID: Trip Bl	lank				— <u> </u>	09/02/22 15:52	09/02/22 19:35 e ID: 590-18	1
Analyte 1,2-Dibromoethane (EDB) Client Sample ID: Trip BI Date Collected: 09/02/22 09:43	lank 5				— <u> </u>	09/02/22 15:52	09/02/22 19:35 e ID: 590-18	1 3 <b>519-5</b>
Analyte 1,2-Dibromoethane (EDB) Client Sample ID: Trip BI Date Collected: 09/02/22 09:44 Date Received: 09/02/22 11:55	lank 5				— <u> </u>	09/02/22 15:52	09/02/22 19:35 e ID: 590-18	1 3 <b>519-5</b>
Analyte 1,2-Dibromoethane (EDB) Client Sample ID: Trip BI Date Collected: 09/02/22 09:43	lank 5			ug/Kg	— <u> </u>	09/02/22 15:52	09/02/22 19:35 e ID: 590-18	1 3 <b>519-5</b>

Method: 8011 - EDB

Lab Sample ID: MB 590-37908/1-	Α							Cli	ent Sam	ple ID: M	ethod	Blan
Matrix: Solid										Prep Ty		
Analysis Batch: 37909										Prep B	atch:	3790
-		МВ МВ										
Analyte	Re	sult Qualifier	RL		MDL	Unit		DF	Prepared	Analyz	zed	Dil Fa
1,2-Dibromoethane (EDB)		ND	0.050	C	0.035	ug/K	9	09/	02/22 15:5	2 09/02/22	17:39	
Lab Sample ID: LCS 590-37908/2	- <b>A</b>						Clie	ent Sa	mple ID	: Lab Con	trol Sa	ampl
Matrix: Solid										Prep Ty	pe: To	tal/N
Analysis Batch: 37909										Prep B	atch:	3790
			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qual	ifier	Unit	D	%Rec	Limits		
1,2-Dibromoethane (EDB)			1.00	0.972			ug/Kg		97	60 - 140		
_ab Sample ID: 590-18519-1 MS							Client S	Samp	le ID: S\	/E-Soil-Se	ept 2-2	7Pre
Matrix: Solid										Prep Ty	pe: Tot	tal/N
Analysis Batch: 37909										Prep B	atch:	37 <mark>90</mark>
Sa	mple	Sample	Spike	MS	MS					%Rec		
Analyte R	lesult	Qualifier	Added	Result	Qual	ifier	Unit	D	%Rec	Limits		
I,2-Dibromoethane (EDB)	ND	F1	1.10	0.620	F1		ug/Kg	¢	57	60 - 140		
Lab Sample ID: 590-18519-1 MSE	)						Client S	Samp	le ID: S\	/E-Soil-Se	ept 2-2	7Pre
Matrix: Solid										Prep Ty	pe: To	tal/N
Analysis Batch: 37909										Prep B	atch:	3790
Sa	mple	Sample	Spike	MSD	MSD					%Rec		RP
Analyte R	lesult	Qualifier	Added	Result	Qual	ifier	Unit	D	%Rec	Limits	RPD	Lim
1,2-Dibromoethane (EDB)	ND	F1	1.11	0.675			ug/Kg	¢	61	60 - 140	8	2
lethod: Moisture - Percent I	Mois	sture										
Lab Sample ID: 590-18519-1 DU							Client S	Samp	le ID: S\	/E-Soil-Se	ept 2-2	7Pre
Matrix: Solid										Prep Ty	-	
Analysis Batch: 37896												
-	mnle	Sample		ווס	DU							RF

	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Percent Moisture	10.9		 11.3		%		 	4	20
Percent Solids	89.1		88.7		%			0.5	20

trix: Soli		ab Sample	La			1	2-27710	9:45	: 09/02/22 0	Client Samp Date Collected Date Received:
		Prepared	Batch	Final	Initial	Dil		Batch	Batch	_
Lab	Analyst	or Analyzed	Number	Amount	Amount	Factor	Run	Method	Туре	Prep Type
EET SPK	NMI	09/02/22 14:18	37896			1		Moisture	Analysis	Total/NA
40540						4	0.070			
		ab Sample	Li			1	2-2/Pre			Client Samp
trix: Soli		D								Date Collected
olids: 89.	ercent S	P						1.55	. 09/02/22 1	Date Received:
		Prepared	Batch	Final	Initial	Dil		Batch	Batch	
Lab	Analyst	or Analyzed	Number	Amount	Amount	Factor	Run	Method	Туре	Prep Type
EET SPK	NMI	09/02/22 15:52	37908	2 mL	10.74 g			8011	Prep	Total/NA
EET SPK	NMI	09/02/22 18:12	37909	1 mL	1 mL	1		8011	Analysis	Total/NA
-18519- trix: Soli		ab Sample	La			2	2-27Pre	9:47	: 09/02/22 0	Client Samp Date Collected Date Received:
		Prepared	Batch	Final	Initial	Dil		Batch	Batch	-
Lab	Analyst	or Analyzed	Number	Amount	Amount	Factor	Run	Method	Туре	Prep Type
EET SPK		09/02/22 14:18	37896	Anount	Amount	1		Moisture	Analysis	Total/NA
-18519-	ID: 590	ab Sample	La			2	2-27Pre	-Soil-Sept	le ID: SVE	Client Samp
-18519- trix: Soli olids: 84.	Ма	-	La			2	2-27Pre	9:47	: 09/02/22 0	Date Collected
trix: Soli	Ма	-	La	Final	Initial	2 Dil	2-27Pre	9:47	: 09/02/22 0	Date Collected
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trix: Soli olids: 84.	Ma ercent S	Prepared	Batch			Dil		9:47 1:55 Batch	: 09/02/22 0 : 09/02/22 1 Batch	Client Samp Date Collected Date Received: Prep Type Total/NA
trix: Soli olids: 84. Lab	Ma ercent S Analyst NMI	Prepared or Analyzed	Batch Number	Amount	Amount	Dil		9:47 I:55 Batch Method	: 09/02/22 0 : 09/02/22 1 Batch Type	Date Collected Date Received: Prep Type
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Lab EET SPK EET SPK -18519- trix: Soli	Ma ercent S Analyst NMI NMI ID: 590 Ma Analyst NMI	Prepared or Analyzed 09/02/22 15:52 09/02/22 19:02 ab Sample Prepared or Analyzed 09/02/22 14:18	Batch Number 37908 37909 La Batch Number 37896	Amount 2 mL 1 mL	Amount 10.95 g 1 mL	Dil Factor 1 3 Dil Factor 1	<u>Run</u> 2-27Pre	9:47 1:55 Batch Method 8011 8011 E-Soil-Sept 9:49 1:55 Batch Method Moisture	: 09/02/22 0 : 09/02/22 1 Batch Type Prep Analysis Ie ID: SVE : 09/02/22 1 : 09/02/22 1 Batch Type Analysis	Date Collected Date Received: Prep Type Total/NA Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA
Lab EET SPK EET SPK -18519- trix: Soli	Ma ercent S Analyst NMI ID: 590 Ma ID: 590 Ma	Prepared or Analyzed 09/02/22 15:52 09/02/22 19:02 ab Sample Prepared or Analyzed 09/02/22 14:18 ab Sample	Batch Number 37908 37909 La Batch Number 37896	Amount 2 mL 1 mL	Amount 10.95 g 1 mL	Dil Factor 1 3 Dil Factor 1	<u>Run</u> 2-27Pre	9:47 1:55 Batch Method 8011 8011 E-Soil-Sept 9:49 1:55 Batch Method Moisture E-Soil-Sept 9:49	: 09/02/22 0 : 09/02/22 1 Batch Type Prep Analysis Ie ID: SVE : 09/02/22 1 Batch Type Analysis Ie ID: SVE : 09/02/22 0	Date Collected Date Received: Prep Type Total/NA Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected
Lab EET SPK EET SPK EET SPK -18519- trix: Soli Lab EET SPK -18519- trix: Soli	Ma ercent S Analyst NMI ID: 590 Ma ID: 590 Ma	Prepared or Analyzed 09/02/22 15:52 09/02/22 19:02 ab Sample Prepared or Analyzed 09/02/22 14:18 ab Sample	Batch Number 37908 37909 La Batch Number 37896	Amount 2 mL 1 mL Final Amount	Amount 10.95 g 1 mL Initial Amount	Dil Factor 1 3 Dil Factor 1 3	<u>Run</u> 2-27Pre	9:47 1:55 Batch Method 8011 8011 E-Soil-Sept 9:49 1:55 Batch Method Moisture E-Soil-Sept 9:49 1:55	: 09/02/22 0 : 09/02/22 1 Batch Type Prep Analysis Ie ID: SVE : 09/02/22 1 Batch Type Analysis Ie ID: SVE : 09/02/22 0 : 09/02/22 0 : 09/02/22 1	Date Collected Date Received: Prep Type Total/NA Total/NA Client Samp Date Collected Date Received: Prep Type
trix: Soli blids: 84. Lab EET SPK EET SPK -18519- trix: Soli EET SPK -18519- trix: Soli blids: 89.	Ma ercent S Analyst NMI ID: 590 Ma ID: 590 Ma ercent S	Prepared or Analyzed 09/02/22 15:52 09/02/22 19:02 ab Sample Prepared 09/02/22 14:18 ab Sample Prepared	Batch Number 37908 37909 La Batch Number 37896 La Batch	Amount 2 mL 1 mL Final Amount	Amount 10.95 g 1 mL Initial Amount	Dil Factor 1 3 Dil Factor 1 3 Dil	<u>Run</u> 2-27Pre <u>Run</u> 2-27Pre	9:47 1:55 Batch Method 8011 8011 E-Soil-Sept 9:49 1:55 Batch Method Moisture E-Soil-Sept 9:49 1:55 Batch Method	: 09/02/22 0 : 09/02/22 1 Batch Type Prep Analysis Ie ID: SVE : 09/02/22 1 Batch Type Analysis Ie ID: SVE : 09/02/22 1 Batch : 09/02/22 1 Batch	Date Collected Date Received: Prep Type Total/NA Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected Date Received:
Lab EET SPK EET SPK EET SPK -18519- trix: Soli EET SPK -18519- trix: Soli Dids: 89. Lab	Ma ercent S Analyst NMI ID: 590 Ma ID: 590 Ma ercent S Analyst	Prepared or Analyzed 09/02/22 15:52 09/02/22 19:02 ab Sample Prepared or Analyzed 09/02/22 14:18 ab Sample Prepared or Analyzed	Batch Number 37908 37909 La Batch Number 37896 La Batch Number	Amount 2 mL 1 mL Final Amount	Amount 10.95 g 1 mL Initial Amount	Dil Factor 1 3 Dil Factor 1 3	<u>Run</u> 2-27Pre	9:47 1:55 Batch Method 8011 8011 E-Soil-Sept 9:49 1:55 Batch Method 0:55 Batch Method 9:49 1:55 Batch Method	: 09/02/22 0 : 09/02/22 1 Batch Type Prep Analysis Ie ID: SVE : 09/02/22 1 Batch Type Analysis Ie ID: SVE : 09/02/22 1 Batch Type : 09/02/22 1 Batch Type	Date Collected Date Received: Prep Type Total/NA Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected Date Received:
trix: Soli blids: 84. Lab EET SPK EET SPK -18519- trix: Soli EET SPK -18519- trix: Soli blids: 89.	Ma ercent S Analyst NMI ID: 590 Ma ID: 590 Ma ercent S Analyst NMI	Prepared or Analyzed 09/02/22 15:52 09/02/22 19:02 ab Sample Prepared 09/02/22 14:18 ab Sample Prepared	Batch Number 37908 37909 La Batch Number 37896 La Batch	Amount 2 mL 1 mL Final Amount	Amount 10.95 g 1 mL Initial Amount	Dil Factor 1 3 Dil Factor 1 3 Dil	<u>Run</u> 2-27Pre <u>Run</u> 2-27Pre	9:47 1:55 Batch Method 8011 8011 E-Soil-Sept 9:49 1:55 Batch Method Moisture E-Soil-Sept 9:49 1:55 Batch Method	: 09/02/22 0 : 09/02/22 1 Batch Type Prep Analysis Ie ID: SVE : 09/02/22 1 Batch Type Analysis Ie ID: SVE : 09/02/22 1 Batch : 09/02/22 1 Batch	Date Collected Date Received: Prep Type Total/NA Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected Date Received:

#### Client Sample ID: SVE-Soil-Sept 2-27Pre4 Date Collected: 09/02/22 09:51 Date Received: 09/02/22 11:55

Client: HDR Inc

Project/Site: Simplot Warden

	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			37896	09/02/22 14:18	NMI	EET SPK

**Eurofins Spokane** 

Matrix: Solid

Job ID: 590-18519-1

# Lab Chronicle

#### Client Sample ID: SVE-Soil-Sept 2-27P Date Collected: 09/02/22 09:51 Date Received: 09/02/22 11:55

Batch

Method

Batch

Туре

Total/NA Prep 8011 Total/NA 8011 Analysis **Client Sample ID: Trip Blank** Date Collected: 09/02/22 09:45

Date Received: 09/02/22 11:55

Γ		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep	о Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Tota	I/NA	Prep	8011			10.64 g	2 mL	37908	09/02/22 15:52	NMI	EET SPK
Tota	I/NA	Analysis	8011		1	1 mL	1 mL	37909	09/02/22 19:51	NMI	EET SPK

#### Laboratory References:

Prep Type

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

7Pre	4			L	ab Sample		)-18519-4 atrix: Solid	
					Р	ercent S	olids: 90.1	
	Dil	Initial	Final	Batch	Prepared			
Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	5
		10.40 g	2 mL	37908	09/02/22 15:52	NMI	EET SPK	
	1	1 mL	1 mL	37909	09/02/22 19:35	NMI	EET SPK	
				L	ab Sample		)-18519-5 atrix: Solid	
								8
	Dil	Initial	Final	Batch	Prepared			
Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	9
		10.64 g	2 mL	37908	09/02/22 15:52	NMI	EET SPK	
							_	

Job ID: 590-18519-1

## 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		ate	C569	01-06-23
The following analytes	are included in this rend	ort but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
the agency does not c	•		for certified by the governing autionty.	
0,	•	Matrix	Analyte	
the agency does not o	offer certification.			

# **Method Summary**

#### Client: HDR Inc Project/Site: Simplot Warden

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

#### **Protocol References:**

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

Euronno opona io

#### 11922 East 1st Ave Spokane, WA 99206

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

# **Chain of Custody Record**

eurofins		
curorma		

•••

Client Information	Sampler Jered Newcomi							РМ: ington, Randee E					Carrier Tracking No(s):					C	COC No:									
Client Contact:	Phone:			E-M	ail:								State	of Orio	gin:					Page:								
Jered Newcomb Company:	509-899-4371		PWSID:	Kar	idee.	Afrii	ngtor	n@ei	.euro	nnsus	.com		WA							Page 1 of 1		- 3						
HDR Inc									_	Ana	lysis	Rec	lues	ted														
Address: 835 N Post St Ste. 101	Due Date Request	ed																		Preservation Coo		4						
City: Spokane State, Zip:	TAT Requested (days): 24 hour																	A RCL B NaOH C Zn Acetale	M Hexane N None O AsNaO2	5								
State, Zip: WA, 99202	Compliance Projec																				}			ŀ		D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3	
Phone: 509-899-4371	PO #: Purchase Order																	:	1	F MeOH G Amchlor	R Na2S2O3 S H2SO4	6						
Email:	WO #:	Requested		N)	~														H Ascorbic Acid	T TSP Dodecahydral U Acelone	• 7							
jered.newcomb@hdrinc.com Project Name:	Project #:				-š	100												1000		J DI Water K EDTA	V MCAA W pH 4-5							
Simplot Warden	59002373				Σa	2								i				1	containe	L EDA	Z other (specify)	8						
sile: Warden WA	SSOW#:				Sample (Yes or N	SD (Yes												1.52	õ (	Dther:								
			Sample	Matrix (W=water	tered (	5	_												10 A 10			9						
		Samala	Туре	S≂solid, O≖waste/ol	ΞĒ	Ę	EDB												Total Number			10						
Sample Identification	Sample Date	Sample Time	(C=comp, G≕grab)	BT≓Tissue, A≂Air)	Field	Perfo	8011												Tota	Special In	structions/Note:							
	> <	> <	A REAL PROPERTY OF A DESCRIPTION OF A DE	ition Code:	X	X	the second of											Ď	X			11						
SVE-Soil-Sept 2 -27Pre1	9/ 2 /2022	945	G	S	Ν	Ν	х																					
SVE-Soil-Sept 2 -27Pre2	9/ ) /2022	947	G	S	Ν	N	x															12						
SVE-Soil-Sept 2 -27Pre3	9/ /2022	949	G	S	Ν	Ν	х											-										
SVE-Soil-Sept 2-27Pre4	9/ 🔪 /2022	951	G	S	Ν	Ν	х											4×										
Trip Blank				S	N	N	x																					
												1	1 1	I	1	I	ł				,							
					Ιſ				Ī			5	<u>40-18</u>	519	Chain	of C	Custo	dy r	·······									
Possible Hazard Identification					- 1	San	nple	Disp	osal	( A fe	e ma	y be a	sses	sed i	lf sam	ples	s are i	reta	ine	d longer than :	f month)							
	bn B 🗖	nown _ [	kadiologica	/ _			$= k \epsilon$	eturn	To C	lient			Dispos	sal Bj	y Lab			An	chiv	/e For	Months							
Deliverable Requested: I II, III IV Other (specify)						Spe	cial I	Instru	iction	s/QC	Requ	ireme	nts.															
Empty Kit Relinquished by 10_1		Date:			Tin									Metho	d of Sh													
Relinquished by: Jered Newcomb	Date(Time:		52	Company		Ī	Recei			66	5	_			D	ate/1 7/2	ime:  22	-	1	1 57	Company CE1810							
Relinquished by:	Date/Time:	£- <b>†</b>		Company		ľ	Recei	ved by	r. 0	6	Γ				D	ate/T	ime:				Company							
Relinquished by:	Date/Time:	Company	any Received by:						Date/Time:							Company												
Custody Seals Intact: Custody Seal No. Δ Yes Δ No				Page 13	of 1	14	Coole	r Tem	peratur	e(s) ℃ 2. B	and O	ther Re	marks: ]/	Loo	6	(	m	5	, , , ,	3°	9/6/202	22						

## Login Sample Receipt Checklist

#### Client: HDR Inc

#### Login Number: 18519 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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Job Number: 590-18519-1

List Source: Eurofins Spokane

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

## Laboratory Job ID: 590-18541-1

Client Project/Site: Simplot Warden

## For:

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

Attn: Jered Newcomb

Candre Arrington

Authorized for release by: 9/8/2022 12:50:16 PM

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

LINKS

Review your project

csults through

construction

construction

Construction

Ask

The

Links

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.

# **Table of Contents**

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Chronicle	9
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Method Summary	12
Chain of Custody	13
Receipt Checklists	14

#### Job ID: 590-18541-1

#### Laboratory: Eurofins Spokane

#### Narrative

#### Receipt

The samples were received on 9/7/2022 2:05 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 2.1° C.

#### GC Semi VOA

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

#### **General Chemistry**

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

#### **Organic Prep**

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

# Sample Summary

Client: HDR Inc Project/Site: Simplot Warden

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18541-1	SVE_Soil-Sept7-28Pre1	Solid	09/07/22 12:08	09/07/22 14:05
590-18541-2	SVE_Soil-Sept7-28Pre2	Solid	09/07/22 12:10	09/07/22 14:05
590-18541-3	SVE_Soil-Sept7-28Pre3	Solid	09/07/22 12:12	09/07/22 14:05
590-18541-4	SVE_Soil-Sept7-28Pre4	Solid	09/07/22 12:14	09/07/22 14:05
590-18541-5	Trip Blank	Solid	09/07/22 00:00	09/07/22 14:05

# **Definitions/Glossary**

#### Client: HDR Inc Project/Site: Simplot Warden

Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

TEQ TNTC Job ID: 590-18541-1

Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	J
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
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)	

# **Client Sample Results**

	Chent	Sample	<b>VE</b> 201	13	
Client: HDR Inc Project/Site: Simplot Warden					Job ID: 590-18541-1
Client Sample ID: SVE_Soi Date Collected: 09/07/22 12:08 Date Received: 09/07/22 14:05	il-Sept7-28Pre1				Lab Sample ID: 590-18541-1 Matrix: Solid
General Chemistry Analyte	Result Qualifier	RL	RI	Unit	D Prepared Analyzed Dil Fac
Percent Moisture	9.7	0.01	0.01		<u> </u>
Percent Solids	90.3	0.01	0.01	%	09/07/22 16:20 1
Client Sample ID: SVE_Soi Date Collected: 09/07/22 12:08 Date Received: 09/07/22 14:05	il-Sept7-28Pre1				Lab Sample ID: 590-18541-1 Matrix: Solid Percent Solids: 90.3
Method: 8011 - EDB		D.	MD	11-14	D. Drawand Analyzed Dil Fee
Analyte 1.2-Dibromoethane (EDB)	Result Qualifier	RL		Unit ug/Kg	D         Prepared         Analyzed         Dil Fac           ∞         09/07/22 16:09         09/07/22 18:01         1
Client Sample ID: SVE_Soi Date Collected: 09/07/22 12:10 Date Received: 09/07/22 14:05	il-Sept7-28Pre2				Lab Sample ID: 590-18541-2 Matrix: Solid
General Chemistry Analyte	Result Qualifier	RL	RI	Unit	D Prepared Analyzed Dil Fac
Percent Moisture	7.9 duamer	0.01	0.01		$\frac{1}{09/07/22} = \frac{1}{100} \frac{1}{10$
Percent Solids	92.1	0.01	0.01		09/07/22 16:20 1
Date Received: 09/07/22 14:05           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	09/07/22 16:09         09/07/22 18:50         1
Client Sample ID: SVE_Soi Date Collected: 09/07/22 12:12 Date Received: 09/07/22 14:05	il-Sept7-28Pre3				Lab Sample ID: 590-18541-3 Matrix: Solid
General Chemistry Analyte	Result Qualifier	RL	RL	Unit	D Prepared Analyzed Dil Fac
Percent Moisture	11.0	0.01	0.01	%	09/07/22 16:20 1
Percent Solids	89.0	0.01	0.01	%	09/07/22 16:20 1
Client Sample ID: SVE_Soi Date Collected: 09/07/22 12:12 Date Received: 09/07/22 14:05	il-Sept7-28Pre3				Lab Sample ID: 590-18541-3 Matrix: Solid Percent Solids: 89.0
Method: 8011 - EDB Analyte	Result Qualifier	RL	MDL	Unit	D Prepared Analyzed Dil Fac
1,2-Dibromoethane (EDB)	ND	0.056		ug/Kg	□         □
Client Sample ID: SVE_Soi Date Collected: 09/07/22 12:14	il-Sept7-28Pre4				Lab Sample ID: 590-18541-4 Matrix: Solid
Date Received: 09/07/22 14:05					
General Chemistry		51	DI	11-1:4	D Despected Archived Differen
	Result Qualifier	<b>RL</b> 0.01	<b>RL</b> 0.01	Unit %	D Prepared Analyzed Dil Fac

# **Client Sample Results**

		Client	Sample F	Resul	ts					
Client: HDR Inc Project/Site: Simplot Warden			Job ID: 590-18541-1							
Client Sample ID: SVE_Soil-Sept7-28Pre4Lab Sample ID: 590-18541-4Date Collected: 09/07/22 12:14Matrix: SolidDate Received: 09/07/22 14:05Matrix: Solid										
General Chemistry (Continued) Analyte Percent Solids	Result 88,5	Qualifier		RL 0.01	Unit %	D	Prepared	Analyzed	Dil Fac	
Client Sample ID: SVE_Soil-S Date Collected: 09/07/22 12:14 Date Received: 09/07/22 14:05	Sept7-2	8Pre4				L		e ID: 590-18 Matrix Percent Solic	x: Solid	
Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	Result ND	Qualifier		<b>MDL</b> 0.036	Unit ug/Kg	<b>D</b>	Prepared 09/07/22 16:09	Analyzed	Dil Fac	
Client Sample ID: Trip Blank Date Collected: 09/07/22 00:00 Date Received: 09/07/22 14:05								e ID: 590-18		
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		09/07/22 16:09	·	1	

## Method: 8011 - EDB

Lab Sample ID: MB 590-3795	1/ <b>2-A</b>									Clie	nt Samp	ole ID: Me	ethod I	Blank
Matrix: Solid												Prep Typ		
Analysis Batch: 37953												Prep B		
		MB MB												
Analyte	Re	sult Qualifie	ər	RL	1	MDL	Unit		D	Pr	epared	Analyz	ed	Dil Fa
1,2-Dibromoethane (EDB)		ND		0.050	0	.035	ug/Kg	l	_ (	09/07	7/22 16:09	09/07/22	17:28	
Lab Sample ID: LCS 590-379	51/3-A							Cli	ent	San	nple ID:	Lab Con	trol Sa	ample
Matrix: Solid												Prep Typ	be: Tot	al/N/
Analysis Batch: 37953												Prep B	atch: 3	3795 <sup>,</sup>
-			Spike		LCS	LCS						%Rec		
Analyte			Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
1,2-Dibromoethane (EDB)			1.00		1.01			ug/Kg		_	101	60 - 140		
Lab Sample ID: 590-18541-1 I	MS							Client	San	nple	D: SV	E_Soil-So	ept7-2	8 <b>Pre</b> '
Matrix: Solid												Prep Typ	-	
Analysis Batch: 37953												Prep B		
,, <b>,</b>	Sample	Sample	Spike		MS	MS						%Rec		
Analyte	•	Qualifier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
1,2-Dibromoethane (EDB)	ND		1.09		0.671			ug/Kg		\ ₽	61	60 - 140		
Lab Sample ID: 590-18541-1 I	MSD							Client	San	nple	D: SV	E Soil-So	ept7-2	8Pre <sup>,</sup>
Matrix: Solid										÷.,		Prep Typ		
Analysis Batch: 37953												Prep B		
	Sample	Sample	Spike		MSD	MSD						%Rec		RPI
Analyte	Result	Qualifier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
1,2-Dibromoethane (EDB)	ND		1.09		0.778			ug/Kg		<del>¤</del>	71	60 - 140	15	20
lethod: Moisture - Perce	nt Mois	sture												
Lab Sample ID: 590-18541-1 I												E_Soil-So		

Matrix: Solid Analysis Batch: 37952						onent	Campic	 Prep Type: To		
-	Sample	Sample		DU	DU				RPD	
Analyte	Result	Qualifier		Result	Qualifier	Unit	D	RPD	Limit	
Percent Moisture	9.7			10.1		%		 4	20	
Percent Solids	90.3			89.9		%		0.4	20	

Initial

Amount

Initial

Amount

10.04 g

1 mL

Final

Amount

Final

Amount

2 mL

1 mL

Batch

37952

Batch

37951

37953

Number

Number

Dil

1

Dil

1

Factor

Factor

Run

Run

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

#### Client Sample ID: SVE Soil-Sept7-28Pre1 Date Collected: 09/07/22 12:08 Date Received: 09/07/22 14:05

Client Sample ID: SVE Soil-Sept7-28Pre1

Batch

Method

Moisture

Batch

8011

8011

Method

Batch

Type

Analysis

Batch

Туре

Prep

Analysis

Matrix: Solid

Lab

EET SPK

Matrix: Solid

Lab

EET SPK

EET SPK

Matrix: Solid

Matrix: Solid

Percent Solids: 92.1

Percent Solids: 90.3

Lab Sample ID: 590-18541-1

Analyst

Analyst

NMI

Lab Sample ID: 590-18541-2

Lab Sample ID: 590-18541-2

Lab Sample ID: 590-18541-1

Prepared

or Analyzed

Prepared

or Analyzed

09/07/22 16:09

09/07/22 18:01 NMI

09/07/22 16:20 NMI

	5
	8
	9

Date Collected: 09/07/22 12:10 Date Received: 09/07/22 14:05

Date Collected: 09/07/22 12:08

Date Received: 09/07/22 14:05

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37952	09/07/22 16:20	NMI	EET SPK

С	lie	nt	Sa	m	ple	ID:	SV	Έ_	Soil-Sept7-28Pre2
-		-							

Client Sample ID: SVE Soil-Sept7-28Pre2

```
Date Collected: 09/07/22 12:10
Date Received: 09/07/22 14:05
```

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.19 g	2 mL	37951	09/07/22 16:09	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	37953	09/07/22 18:50	NMI	EET SPK

```
Client Sample ID: SVE_Soil-Sept7-28Pre3
Date Collected: 09/07/22 12:12
Date Received: 09/07/22 14:05
```

#### Batch Batch Dil Initial Final Batch Prepared or Analyzed Prep Type Type Method Run Factor Amount Amount Number Analyst Lab Total/NA Moisture 37952 09/07/22 16:20 NMI EET SPK Analysis 1

#### Client Sample ID: SVE Soil-Sept7-28Pre3 Date Collected: 09/07/22 12:12 Date Received: 09/07/22 14:05

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.02 g	2 mL	37951	09/07/22 16:09	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	37953	09/07/22 19:07	NMI	EET SPK

#### Client Sample ID: SVE Soil-Sept7-28Pre4 Date Collected: 09/07/22 12:14 Date Received: 09/07/22 14:05

_	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			37952	09/07/22 16:20	NMI	EET SPK

**Eurofins Spokane** 

# Lab Sample ID: 590-18541-3

Lab Sample ID: 590-18541-3

Lab Sample ID: 590-18541-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 89.0

Г

### Client Sample ID: SVE\_Soil-Sept7-28Pre4 Date Collected: 09/07/22 12:14 Date Received: 09/07/22 14:05

				Matrix: Solid Percent Solids: 88.5
Dil	Initial	Final	Batch	Prepared

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.98 g	2 mL	37951	09/07/22 16:09	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	37953	09/07/22 19:23	NMI	EET SPK

#### **Client Sample ID: Trip Blank** Date Collected: 09/07/22 00:00 Date Received: 09/07/22 14:05

Buto Robolitot		4.00								
Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.37 g	2 mL	37951	09/07/22 16:09	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	37953	09/07/22 19:40	NMI	EET SPK

Laboratory References:

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

Job ID: 590-18541-1

Matrix: Solid

Lab Sample ID: 590-18541-4

Lab Sample ID: 590-18541-5

# 8

## Laboratory: Eurofins Spokane

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

Authority Nashington		ogram	Identification Number	Expiration Date
		ate	C569	01-06-23
The following analytes	are included in this rend	ort but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
the agency does not c	•		for certified by the governing autionty.	
0,	•	Matrix	Analyte	
the agency does not o	offer certification.		, , , , , ,	

# **Method Summary**

#### Client: HDR Inc Project/Site: Simplot Warden

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

#### **Protocol References:**

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

Laronno opona io

#### 11922 East 1st Ave Spokane, WA 99206

# Chain of Custody Record

••	eurofins	<b>F</b> ancis and an

Environment Testing An Prica

Phone (509) 924-9200 Phone (509) 924-9290																				An -nea	- 7
Client Information					b PM: rrington, Randee E								COC No:								
Client Contact: Jered Newcomb	Phone: E-M				Mail: andee.											Page: Page 1 of 1		1			
Company: HDR Inc			PWSID:							Ana	alysis	s Red	ues	ted					Job #:		٦
Address: 835 N Post St. Ste. 101	Due Date Request	ed										T							Preservation Cod	les.	4
City: Spokane	TAT Requested (d	<sup>ays):</sup> 24 hc	our																A HCL B NaOH C Zn Acetate	M Hexane N None O AsNaO2	
Slate, Zip: WA, 99202	Compliance Project	cl. A Yes	A No		- 1													11110	D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3	
Phone: 509-899-4371	PO #: Purchase Orde				-													· · ·	F MeOH G Amchlor	R Na2S2O3 S H2SO4	
Email: jered.newcomb@hdrinc.com	WO #:	r Requested	1		or No)	(0)												\$	H Ascoribic Acid I Ice J DI Water	T TSP Dodecahydrate U Acetone V MCAA	
Project Name: Simplot Warden	Project #: 59002373				- S	t or t													K EDTA L EDA	W pH 4-5 Z other (specify)	
Site:	SSOW#:				Sample (Yes	o Ne												1. 2. 1	Other <sup>.</sup>		
Warden WA			Sample Type	Matrix (₩=water S=solid,	iltered	ISWSH W	EDB											<b>Total Number of</b>			-
Sample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/o BT=Tissue A=Air)	Field	Perior	8011	Sec. 12.1								24. Westerner		Total	Special In	structions/Note:	
		$\geq$	Preservatio				N				_	-						Х			1999 C.C.
SVE-Soil-Sept 7 -28Pre1	91 7 12022	1208	G	S		Ν	X					_				_					_
SVE-Soil-Sept 7 -28Pre2	9/ 7 /2022	1210	G	S	N	Ν	X					_						-			
SVE-Soil-Sept 7 -28Pre3	9/ 7/ 12022	1212	G	S	N	Ν	X														
SVE-Soil-Sept 7-28Pre4	91 7 12022	1214	G	S	N	Ν	Х														
Trip Blank		·		S	N	Ν	x						E1851 488+		, N	•		1			
																					٦
											Ť	50	0.495								1
· · · · · · · · · · · · · · · · · · ·											$\neg$	_ <u>09</u> 	<u>0-185</u> 	41 C I	nain ol	Custo	ody I	1 3			-
																					-
······································					-++							_	┼──┼					- 			-
Possible Hazard Identification						San	nole	Dist	posal	(Af	ee ma	v be a	Isses	sed i	samr	les ar	re ret	aine	ed longer than 1	month)	
	son B	iown [	Radiological				<u> </u>		To Cl	-			bispos		•		············		ve For	Months	
Deliverable Requested   II III, IV Other (specify)			<b>-</b>		ļ	Spe	cial l	Instru	uctions	s/QC	Requ										1
Empty Kit Relinquished by		Date:			Tin	ne					/			Metho	f of Ship	ment:					-
Relinquished by: Jered Newcomb	Date/Time: 9/7/22	۱4	: Od	трапу				ved b	Y.	1	/					le/Time:		n	1405	Company Et Aspale	
Relinquished by:	Date/Time:		Cd	mpany			Recei	ved b	y:						Da	le/Time:				Сотраву	
Relinquished by:	Date/Time:		Co	mpany			Recei	ved b	y:						Da	te/Time:	1	1°	ν ν	Company	
Custody Seals Intact: Custody Seal No. Δ Yes Δ No			P	age 1	3 of 1	14	Coole	r Tem	peratur	e(s) °(	C and O	ther Re	marks:		1	6'C	17	/ 7 Y	- F1 06	9/8/2022	7

## Login Sample Receipt Checklist

#### Client: HDR Inc

#### Login Number: 18541 List Number: 1 Creator: Fettig, Riley

Radioactivity wasn't checked or is = background as measured by a surve<br meter. The cooler's custody seal, if present, is intact. Sample custody seals, if present, are intact.	ey N/A N/A N/A True True	
	N/A True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.		
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	

Job Number: 590-18541-1

List Source: Eurofins Spokane

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

## Laboratory Job ID: 590-18592-1

Client Project/Site: Simplot Warden

## For:

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

Attn: Jered Newcomb

Candre Arrington

Authorized for release by: 9/12/2022 3:49:15 PM

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

<section-header><text><text><text><text>

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.

# **Table of Contents**

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Definitions	5
Client Sample Results	6
QC Sample Results	8
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Method Summary	12
Chain of Custody	13
Receipt Checklists	14

#### Job ID: 590-18592-1

#### Laboratory: Eurofins Spokane

#### Narrative

#### Receipt

The samples were received on 9/9/2022 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.7° C.

#### GC Semi VOA

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

#### **General Chemistry**

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

#### **Organic Prep**

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

# Sample Summary

Client: HDR Inc Project/Site: Simplot Warden Job ID: 590-18592-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18592-1	SVE-Soil-Sept9-29Pre1	Solid	09/09/22 13:34	09/09/22 15:25
590-18592-2	SVE-Soil-Sept9-29Pre2	Solid	09/09/22 13:36	09/09/22 15:25
590-18592-3	SVE-Soil-Sept9-29Pre3	Solid	09/09/22 13:38	09/09/22 15:25
590-18592-4	SVE-Soil-Sept9-29Pre4	Solid	09/09/22 13:40	09/09/22 15:25
590-18592-5	Trip Blank	Solid	09/09/22 00:00	09/09/22 15:25

# **Definitions/Glossary**

#### Client: HDR Inc Project/Site: Simplot Warden

Glossary Abbreviation

¤

Demitione, creecury		
nc	Job ID: 590-18592-1	
Simplot Warden		2
		3
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		Δ
Percent Recovery		
Contains Free Liquid		5
Colony Forming Unit		J
Contains No Free Liquid		6
Duplicate Error Ratio (normalized absolute difference)		U
Dilution Factor		7
Detection Limit (DoD/DOE)		
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		0
Decision Level Concentration (Radiochemistry)		ð
Estimated Detection Limit (Dioxin)		
Limit of Detection (DoD/DOE)		9
Limit of Quantitation (DoD/DOE)		
EPA recommended "Maximum Contaminant Level"		10
Minimum Detectable Activity (Radiochemistry)		
Minimum Detectable Concentration (Radiochemistry)		11
Method Detection Limit		
Minimum Level (Dioxin)		
Most Probable Number		

%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# **Client Sample Results**

Client: HDR Inc

Job ID: 590-18592-1

Client: HDR Inc Project/Site: Simplot Warden								Job ID: 590-	18592-1
Client Sample ID: SVE-Soil Date Collected: 09/09/22 13:34 Date Received: 09/09/22 15:25	-Sept9-2	9Pre1				L	ab Sample	e ID: 590-18 Matri	8 <b>592-1</b> x: Solid
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture Percent Solids	9.8 90.2		0.01 0.01	0.01 0.01				09/12/22 08:40 09/12/22 08:40	1 1
Client Sample ID: SVE-Soil	-Sept9-2	9Pre1				L	ab Sample	e ID: 590-1	
Date Collected: 09/09/22 13:34 Date Received: 09/09/22 15:25								Matri Percent Solio	x: Solid ds: 90.2
Method: 8011 - EDB									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.036	ug/Kg	¢	09/12/22 09:29	09/12/22 10:50	1
Client Sample ID: SVE-Soil Date Collected: 09/09/22 13:36 Date Received: 09/09/22 15:25	-Sept9-2	9Pre2				L	ab Sample	e ID: 590-18 Matri	8592-2 x: Solid
General Chemistry						_			
Analyte		Qualifier	RL	0.01	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture Percent Solids	10.6 89.4		0.01 0.01	0.01				09/12/22 08:40 09/12/22 08:40	1 1
Date Collected: 09/09/22 13:36 Date Received: 09/09/22 15:25 Method: 8011 - EDB Analyte	Posult	Qualifier	RL	MDI	Unit	D	Prepared	Matriz Percent Solid Analyzed	x: Solid ds: 89.4 Dil Fac
1,2-Dibromoethane (EDB)	ND	Quaimer	0.052		ug/Kg		09/12/22 09:29		1
Client Sample ID: SVE-Soil Date Collected: 09/09/22 13:38 Date Received: 09/09/22 15:25	-Sept9-2	9Pre3				L	ab Sample	e ID: 590-18 Matri	8 <b>592-3</b> x: Solid
General Chemistry Analyte	Result	Qualifier	RL	RI	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		0.01	0.01				09/12/22 08:40	1
Percent Solids	87.4		0.01	0.01				09/12/22 08:40	1
Client Sample ID: SVE-Soil Date Collected: 09/09/22 13:38 Date Received: 09/09/22 15:25	-Sept9-2	9Pre3				L		e ID: 590-18 Matri Percent Solie	x: Solid
Method: 8011 - EDB						_			
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.037	ug/Kg		09/12/22 09:29		1
Client Sample ID: SVE-Soil Date Collected: 09/09/22 13:40 Date Received: 09/09/22 15:25	-Sept9-2	9Pre4				L	ab Sample	e ID: 590-18 Matri	8 <b>592-4</b> x: Solid
General Chemistry	_	0	<b>_</b> .		11	_	<b>D</b>	• • •	<b>D</b>
Analyte Percent Moisture	Result 10.4	Qualifier	RL	0.01	Unit	D	Prepared	Analyzed	Dil Fac
			0.01		0/			09/12/22 08:40	1

# **Client Sample Results**

Client: HDR Inc								Job ID: 590-7	18592-1
Project/Site: Simplot Warden									
Client Sample ID: SVE-Soi	I-Sept9-29	9Pre4				L	.ab Sample	e ID: 590-18	3592-4
Date Collected: 09/09/22 13:40 Date Received: 09/09/22 15:25								Matrix	k: Solid
General Chemistry (Continued	•	0	5.		11	_	Deserved	•	
Analyte		Qualifier			Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Percent Solids	89.6		0.01	0.01	%			09/12/22 08:40	1
Client Sample ID: SVE-Soi Date Collected: 09/09/22 13:40	I-Sept9-29	9Pre4				L	ab Sample	e ID: 590-18 Matrix	3 <b>592-4</b> k: Solid
Date Received: 09/09/22 15:25								Percent Solic	
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	\$	09/12/22 09:29	09/12/22 12:12	1
<b>Client Sample ID: Trip Blan</b>	nk					L	ab Sample	e ID: 590-18	3592-5
Date Collected: 09/09/22 00:00								Matrix	k: Solid
Date Received: 09/09/22 15:25									
Method: 8011 - EDB									
Analyte	Descult	Outellifier		MDI	11	<b>D</b>	Dronorod	Analyzad	DULLAS
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Method: 8011 - EDB

Lab Sample ID: MB 590-380	04/2 A							~		nt Comr		thad	Plank
Matrix: Solid	JU 1/2-A							U U	, ne	nt Samp	ole ID: Me Prep Typ		
Analysis Batch: 37999											Prep Ba		
Analysis Batch. 07000		МВ МВ									Перы		
Analyte	Re	sult Qualifier		RL	MDL	Unit		D	Pr	epared	Analyze	ed	Dil Fac
1,2-Dibromoethane (EDB)		ND	0.	050 0	0.035	ug/Kg		_ 0	9/12	2/22 09:29	09/12/22 1	0:18	1
Lab Sample ID: LCS 590-38	8001/3-A						Cli	ent S	San	nple ID:	Lab Cont	rol Sa	ample
Matrix: Solid											Prep Typ	e: Tot	tal/NA
Analysis Batch: 37999											Prep Ba	atch:	38001
-			Spike	LCS	LCS						%Rec		
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
1,2-Dibromoethane (EDB)			1.00	0.991			ug/Kg		_	99	60 - 140		
_ Lab Sample ID: 590-18592-	1 <b>MS</b>						Client	San	npl	e ID: SV	E-Soil-Se	pt9-2	9Pre1
Matrix: Solid									÷.,		Prep Typ	-	
Analysis Batch: 37999											Prep Ba		
-	Sample	Sample	Spike	MS	MS						%Rec		
Analyte	Result	Qualifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
1,2-Dibromoethane (EDB)	ND		1.10	0.802			ug/Kg		¢	73	60 - 140		
_ Lab Sample ID: 590-18592-	1 MSD						Client	San	npl	e ID: SV	E-Soil-Se	pt9-2	9Pre1
Matrix: Solid									÷.,		Prep Typ	-	
Analysis Batch: 37999											Prep Ba		
-	Sample	Sample	Spike	MSD	MSE	)					%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limit
1,2-Dibromoethane (EDB)	ND		1.09	0.700			ug/Kg		Å	64	60 - 140	14	20

### Client Sample ID: SVE-Soil-Sept9-29Pre1 Date Collected: 09/09/22 13:34 Date Received: 09/0

-	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			37998	09/12/22 08:40	NMI	EET SPK
- Cliont Sam		E-Soil-Sept	0 20 Dro1					ab Sample		19502 1
Date Collecte			<b>3-23F</b> 1 <b>E</b> 1					an Sample		atrix: Solid
Date Receive								P		olids: 90.2
	u. 05/05/22 1	0.20								01103. 00.2
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.65 g	2 mL	38001	09/12/22 09:29	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	37999	09/12/22 10:50	NMI	EET SPK
Client Sam	ple ID: SVE	E-Soil-Sept	9-29Pre2				L	ab Sample	ID: 590	-18592-2
Date Collecte							_			atrix: Solid
Date Receive										
_	<b>-</b>					<b></b> .		<b>_</b>		
	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	- Number 37998	or Analyzed 09/12/22 08:40	Analyst NMI	EET SPK
Total/NA	Analysis	Moisture		I			37990	09/12/22 00.40		LETOPK
Client Sam Date Collecte Date Receive	d: 09/09/22 1	3:36	0-201 TC2	• 				ab Sample P	Ма	atrix: Solid olids: 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			10.80 g	2 mL	38001	09/12/22 09:29	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	37999	09/12/22 11:39	NMI	EET SPK
- Client Semi		- Soil Sont	0 20Dro3	)				ab Sample		19502 2
Client Sam			3-237163	•			L .	an Sailihie		
Date Collecte Date Receive									Ma	atrix: Solid
	u. 05/05/22 1	5.23								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Ргер Туре	21.			1			37998	09/12/22 08:40	NMI	EET SPK
<b>Prep Type</b> Total/NA	Analysis	Moisture								
Total/NA	Analysis		0 20Dro2	· ·				ah Sampla		19502 2
Total/NA	Analysis	E-Soil-Sept	9-29Pre3	· ·			L	ab Sample		
Client Sam	Analysis ple ID: SVE d: 09/09/22 1	E-Soil-Sept 3:38	9-29Pre3	· ·			L		Ма	atrix: Solid
	Analysis ple ID: SVE d: 09/09/22 1	E-Soil-Sept 3:38	9-29Pre3	· ·			L		Ма	-18592-3 atrix: Solid olids: 87.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.92 g	2 mL	38001	09/12/22 09:29	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	37999	09/12/22 11:55	NMI	EET SPK

### Client Sample ID: SVE-Soil-Sept9-29Pre4 Date Collected: 09/09/22 13:40 Date Received: 09/09/22 15:25

_	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			37998	09/12/22 08:40	NMI	EET SPK

**Eurofins Spokane** 

Matrix: Solid

Lab Sample ID: 590-18592-4

Job ID: 590-18592-1

Matrix: Solid

Lab Sample ID: 590-18592-1

# Lab Chronicle

Initial

Amount

10.49 g

1 mL

Final

Amount

2 mL

1 mL

Batch

38001

37999

Number

Dil

1

Factor

Run

## Client Sample ID: SVE-Soil-Sept9-29Pre4 Date Collected: 09/09/22 13:40 Date Received: 09/09/22 15:25

Batch

8011

8011

Method

Batch

Туре

Prep

Analysis

Lab	Sample	ID:	590-1	8592-4

Prepared

or Analyzed

09/12/22 09:29 NMI

09/12/22 12:12 NMI

Job ID: 590-18592-1

Percent Solids: 89.6

Analyst

Lab Sample ID: 590-18592-5

Matrix: Solid

Matrix: Solid

# 6 7 8 9

Lab EET SPK EET SPK

### Client Sample ID: Trip Blank Date Collected: 09/09/22 00:00 Date Received: 09/09/22 15:25

Γ		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Pre	р Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Tota	al/NA	Prep	8011			10.01 g	2 mL	38001	09/12/22 09:29	NMI	EET SPK
Tota	al/NA	Analysis	8011		1	1 mL	1 mL	37999	09/12/22 12:28	NMI	EET SPK

### Laboratory References:

Prep Type

Total/NA

Total/NA

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

## 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	ate	C569	01-06-23
The following analyte	s are included in this repo	ort, but the laboratory is i	not certified by the governing authority.	This list may include analytes for which
the agency does not o	offer certification.			
the agency does not of Analysis Method	offer certification. Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Percent Moisture	

# **Method Summary**

### Client: HDR Inc Project/Site: Simplot Warden

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

#### **Protocol References:**

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

Euronno opona io

#### 11922 East 1st Ave

# Chain of Custody Record

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

Client Information	Sampler Jered Newcomb, JA	AN .			o PM: ringto	n Ra	ande	еF					Carrier Tracking No(s): COC No:									
Client Contact:	Phone:			E-M	Aail:										of Orig	jin:			•		Page:	
Jered Newcomb Company:	509-899-4371	F	WSID:	Ra	Indee	Arri	ngton	@et.	.eurofi	Insu	is.con	<u>n</u>	I\	NA							Page 1 of 1 Job #:	
HDR Inc						1000-000000				An	alysi	s F	Requ	les	ted							
Address: 835 N Post St. Ste 101	Due Date Requested				10000																Preservation Code	
City: Spokane	TAT Requested (days):	24 hou	ır		alaan ahaa ahaa ahaa ahaa ahaa ahaa ahaa															and a second second second	B NaOH C Zn Acetale	M Hexane N None O AsNaO2
State, Zip: WA, 99202	Compliance Project:	ΔYes Λ	No		1900 - 1910 - Saylor - 1955	L.															E NaHSO4	P Na2O4S Q Na2SO3 R Na2S2O3
Phone: 509-899-4371	PO #: Purchase Order Rec	quested			No)	5															G Amchlor H Ascorbic Acid	S H2SO4 T TSP Dodecahydrate
Email: jered.newcomb@hdrinc.com	WO #:				or	9														9	J DI Water	U Acetone V MCAA
Project Name: Simplot Warden	Project #: 59002373				Sec.	s or														tainei		W pH 4-5 Z other (specify)
Site: Warden WA	SSOW#:				Jidues	an de														of con	Other <sup>.</sup>	
Sample Identification		ampte (	Sample Type	VIATEIX W=water S=solid, =was(e/oi T=Tissue, A=Air)	Field Filtered S	Perto	8011 EDB													Total Number	Special Ins	tructions/Note:
SVE-Soil-Sept (/ -29Pre1	9/9/2022 3	34	altraduction and strain	S			N.				attenti der		bonomio (a	10601/202	Radoctur		custation	- Annotest	Second			
SVE-Soil-Sept 9 -29Pre2	9/9/12022	24	G	 S	N	+	×					+										
SVE-Soil-Sept 7 -29Pre3	1 Pro	<u>36</u> 338	G	S	_	$\rightarrow$	X X					+										
SVE-Soil-Sept 1 -29Pre4		398	G	s	_		^ X	_				-			-		_					
Trip Blank	<u> </u>	MU		s	_	$\rightarrow$	x	+				+	+	_ '	1	1						
					-							+		-								
				·								+		÷								
							-+						$\neg$								alody.	
				*****			-						-			0-18	<u>592</u> I	<u>Chai</u>	n of	Cus	stody	
				· · · · ·								╈	-									
Possible Hazard Identification					_	Sam	<u> </u>				ee ma	ay t	be as	ses	sed i	f sai	nple	s are	e ret	aine	ed longer than 1	month)
Non-Hazard ammable Slitent Poise	on Bnown	, Lk	adiological			L			To Cli						al By	/ Lat	)	L	h	rchi	ve For	_ Months
Deliverable Requested: I II III, IV Other (specify)						Spe	cial Ir	nstru	ctions	/QC	Requ	uire	ment	s								
Empty Kit Relinquished by	Date	e:			Tir	ne:	S	2							Metho	d of S	hipmo	ent:				
Relinquished by: Jered Newcomb	Date/Time: 9/9/22	152	5	pany		ľ	Keceiv	ed by:	1	2	Ø.	1	4	-			Date/ 9/	Time: 9/	22	~	15 25	Company EET883
Relinquished by:	Date/Time:			pany		1	Receiv	ed by:		1		_					Dale/					Company
Relinquished by:	Date/Time:			pany			Receiv										Date/	Time:				Company
Custody Seals Intact: Custody Seal No.			· P	age 1	3 01	14	Cooler	Temp	erature	(s) °(	C and C	Dthe	r Rem	arks;	,	100	00	R				9/12/2022

# Login Sample Receipt Checklist

### Client: HDR Inc

### Login Number: 18592 List Number: 1 Creator: Fettig, Riley

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

Job Number: 590-18592-1

List Source: Eurofins Spokane

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 590-18606-1

Client Project/Site: Simplot Warden

# For:

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

Attn: Jered Newcomb

Candre Arrington

Authorized for release by: 9/14/2022 4:32:03 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.

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

# **Table of Contents**

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Client Sample Results	6
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### Job ID: 590-18606-1

### Laboratory: Eurofins Spokane

#### Narrative

### Receipt

The samples were received on 9/13/2022 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was  $3.6^{\circ}$  C.

#### GC Semi VOA

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

#### **General Chemistry**

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

#### Organic Prep

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

# Sample Summary

Client: HDR Inc Project/Site: Simplot Warden

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18606-1	SVE-Soil-Sept13-30Pre1	Solid	09/13/22 12:46	09/13/22 14:30
590-18606-2	SVE-Soil-Sept13-30Pre2	Solid	09/13/22 12:48	09/13/22 14:30
590-18606-3	SVE-Soil-Sept13-30Pre3	Solid	09/13/22 12:50	09/13/22 14:30
590-18606-4	SVE-Soil-Sept13-30Pre4	Solid	09/13/22 12:52	09/13/22 14:30
590-18606-5	Trip Blank	Solid	09/13/22 00:00	09/13/22 14:30

### Client: HDR Inc Project/Site: Simplot Warden

Job ID: 590-18606-1

Glossary		3
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	- 4
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	5
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

# **Client Sample Results**

Job ID: 590-18606-1

Project/Site: Simplot Warden									
Client Sample ID: SVE-Soil-Se	pt13-30Pre	e1					Lab Sam	ple ID: 590-1	8606-1
Date Collected: 09/13/22 12:46								Matri	ix: Solid
Date Received: 09/13/22 14:30									
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.01	0.01	%			09/14/22 08:38	1
Percent Solids	90.2		0.01	0.01	%			09/14/22 08:38	1
Client Sample ID: SVE-Soil-Se	pt13-30Pre	e1					Lab Sam	ple ID: 590-1	8606-1
Date Collected: 09/13/22 12:46								Matri	ix: Solid
Date Received: 09/13/22 14:30								Percent Soli	ids: 90.2
Method: 8011 - EDB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	¢	09/14/22 08:48	09/14/22 10:21	1
Client Sample ID: SVE-Soil-Se	ot13-30Pre	2					Lab Sam	ple ID: 590-1	8606-2
Date Collected: 09/13/22 12:48		-						-	ix: Solid
Date Received: 09/13/22 14:30								Wath	
General Chemistry Analyte	Posult	Qualifier	RL	Ы	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.01	0.01				09/14/22 08:38	1
Percent Solids	88.8		0.01	0.01				09/14/22 08:38	1
Client Sample ID: SVE-Soil-Se	pt13-30Pre	<b>e2</b>					Lab Sam	ple ID: 590-1	8606-2
Date Collected: 09/13/22 12:48								Matri	ix: Solid
Date Received: 09/13/22 14:30								Percent Soli	ids: 88.8
Method: 8011 - EDB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.037	ug/Kg	₽	09/14/22 08:48	09/14/22 11:09	1
Client Sample ID: SVE-Soil-Se	pt13-30Pre	e3					Lab Sam	ple ID: 590-1	8606-3
Date Collected: 09/13/22 12:50								•	ix: Solid
Date Received: 09/13/22 14:30									
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.6		0.01	0.01	%			09/14/22 08:38	1
Percent Solids	84.4		0.01	0.01	%			09/14/22 08:38	1
Client Sample ID: SVE-Soil-Se	pt13-30Pre	e3					Lab Sam	ple ID: 590-1	8606-3
Date Collected: 09/13/22 12:50								-	ix: Solid
Date Received: 09/13/22 14:30								Percent Soli	
Method: 8011 - EDB									
Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056		ug/Kg		09/14/22 08:48	09/14/22 11:25	1
	ND								
Client Sample ID: SVE-Soil-So		4					Lah Sam	nle ID: 590_1	8606-4
Client Sample ID: SVE-Soil-Se		94					Lab Sam	ple ID: 590-1	
Client Sample ID: SVE-Soil-Se Date Collected: 09/13/22 12:52 Date Received: 09/13/22 14:30		94					Lab Sam	-	8606-4 ix: Solid
Date Collected: 09/13/22 12:52 Date Received: 09/13/22 14:30		94					Lab Sam	-	
Date Collected: 09/13/22 12:52 Date Received: 09/13/22 14:30 General Chemistry	pt13-30Pro				Unit			Matri	ix: Solid
Date Collected: 09/13/22 12:52 Date Received: 09/13/22 14:30	pt13-30Pro	Qualifier		RL 0.01	Unit %	D	Lab Sam	-	

# **Client Sample Results**

Client: HDR Inc
Project/Site: Simplot Warden

	Client	Sample F	lesults	\$				
							Job ID: 590	-18606-1
t13-30Pre	<b>∋4</b>					Lab Sam	ple ID: 590-1	8606-4
							Matr	rix: Solid
Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
86.2		0.01	0.01	%			09/14/22 08:38	1
t13-30Pr	e <b>4</b>					Lab Sam	ple ID: 590-1	8606-4
	/-•						-	rix: Solid
	- ···	5.			-			
						<u> </u>		Dil Fac
ND		0.057	0.040	ug/Kg	\$	09/14/22 08:48	09/14/22 11:41	1
						Lab Sam	ple ID: 590-1	8606-5
							Matı	rix: Solid
Beault	Qualifier	RL	мы	Unit	D	Prepared	Analyzed	Dil Fac
	Result 86.2 t13-30Pre Result ND	Result Qualifier         Result Qualifier         Result Qualifier	Result         Qualifier         RL           86.2         0.01           t13-30Pre4           Result         Qualifier           Result         0.057	Result         Qualifier         RL         RL           86.2         0.01         0.01           t13-30Pre4	Result         Qualifier         RL         RL         Unit           86.2         0.01         0.01         %           t13-30Pre4           Result         Qualifier         RL         MDL         Unit           ND         0.057         0.040         ug/Kg	Result       Qualifier       RL       RL       Unit       D         86.2       0.01       0.01       %       D         t13-30Pre4	Result       Qualifier       RL       RL       Unit       D       Prepared         86.2       0.01       0.01       0.01       %       D       Prepared         t13-30Pre4       Lab Sam         Result       Qualifier       RL       MDL       Unit       D       Prepared         ND       0.057       0.040       ug/Kg       X       Prepared         Lab Sam       Lab Sam       Lab Sam       Lab Sam	t13-30Pre4       Lab Sample ID: 590-1         Result       Qualifier       RL       ND         86.2       0.01       0.01       %       D       Prepared       Analyzed         09/14/22 08:38       0.01       0.01       %       D       Prepared       Analyzed         13-30Pre4       Lab Sample ID: 590-1       Matr         Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed         ND       0.057       0.040       ug/Kg       2       09/14/22 08:48       09/14/22 11:41         Lab Sample ID: 590-1       Matr       Matr       D       Prepared       Analyzed         ND       0.057       0.040       ug/Kg       2       09/14/22 08:48       09/14/22 11:41

RL

0.050

Spike

Added

1.00

MDL Unit

0.035 ug/Kg

LCS LCS

1.05

Result Qualifier

D

Unit

ug/Kg

Prepared

09/14/22 08:48

D

MB MB

ND

Result Qualifier

Lab Sample ID: MB 590-38053/2-A

Lab Sample ID: LCS 590-38053/3-A

Method: 8011 - EDB

Analysis Batch: 38054

1,2-Dibromoethane (EDB)

Analysis Batch: 38054

1,2-Dibromoethane (EDB)

Matrix: Solid

Matrix: Solid

Analyte

Analyte

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 38053

Prep Batch: 38053

Dil Fac

1

# 1 2 3 4 5 6 7 8 9

 %Rec
 Limits

 105
 60 - 140

**Client Sample ID: Method Blank** 

Analyzed

09/14/22 09:49

**Client Sample ID: Lab Control Sample** 

%Rec

Lab Sample ID: 590-18606-1 M Matrix: Solid	S					Cli	ent San	nple ID:		Sept13-30Pre1 Type: Total/NA
Analysis Batch: 38054									Pre	p Batch: 38053
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,2-Dibromoethane (EDB)	ND		1.08	0.829		ug/Kg	\$	77	60 - 140	

Lab Sample ID: 590-18606-1 MSI Matrix: Solid Analysis Batch: 38054	D					CI	ient Sar	nple ID:		Sept13-3 Type: Tot Batch: 3	tal/NA
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2-Dibromoethane (EDB)	ND		1.04	0.711		ug/Kg	¢	68	60 - 140	15	20

## Method: Moisture - Percent Moisture

Lab Sample ID: 590-18606-1 D Matrix: Solid Analysis Batch: 38052	U				Cli	ient Sample	ID: SVE-Soil-Sept13-3 Prep Type: To	
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Moisture	9.8		9.8		%		0.5	20
Percent Solids	90.2		90.2		%		0.05	20

Ргер Туре

Total/NA

Туре

Analysis

Method

Moisture

Run

Factor

1

Job ID: 590-18606-1

Client Samp Date Collected: Date Received:	: 09/13/22 12:4	6	0Pre1					Lab Samp		90-18606-1 Matrix: Solic
	03/13/22 14.3	0								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38052	09/14/22 08:38	NMI	EET SPK
Client Samp	le ID: SVE-S	oil-Sept13-3	0Pre1					Lab Samp	ole ID: 59	0-18606-1
Date Collected:										Matrix: Soli
Date Received:	09/13/22 14:3	0								Solids: 90.
	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	
Total/NA	Prep	8011			10.27 g	2 mL	38053	09/14/22 08:48	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38054	09/14/22 10:21	NMI	EET SPK
Client Samp	le ID: SVE-S	oil-Sept13-3	0Pre2					Lab Samp	ole ID: 59	0-18606-2
Date Collected	: 09/13/22 12:4	8							1	Matrix: Soli
Date Received:	09/13/22 14:3	0								
_	Detah	Datah		Dil	Initial	Final	Datah	Drevered		
Duon Truno	Batch	Batch	Dur	Dil	Initial	Final	Batch	Prepared	Analyst	Lah
Prep Type Total/NA	<b>Type</b> Analysis	Method Moisture	Run	Factor	Amount	Amount	_ <u>Number</u> 38052	or Analyzed 09/14/22 08:38	Analyst NMI	EET SPK
	, analysis	Molotaro					00002	00/11/22 00:00		
<b>Client Samp</b>	le ID: SVE-S	oil-Sept13-3	0Pre2					Lab Samp	ole ID: 59	0-18606-2
Date Collected	: 09/13/22 12:4	8						-	1	Matrix: Soli
Date Received:	09/13/22 14:3	0							Percent	Solids: 88.
Γ										
	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	
Total/NA	Prep	8011			10.78 g	2 mL	38053	09/14/22 08:48	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38054	09/14/22 11:09	NMI	EET SPK
Client Samp	le ID: SVE-S	oil-Sept13-3	0Pre3					Lab Samp	ole ID: 59	0-18606-3
Date Collected	: 09/13/22 12:5	i0								Matrix: Solie
Date Received:	09/13/22 14:3	0								
_	5.4.1	5 / 1				<b>-</b>		- ·		
	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			38052	09/14/22 08:38	NMI	EET SPK
Client Samp	le ID: SVE-S	oil-Sept13-3	0Pre3					Lab Samp	ole ID: 59	0-18606-3
Date Collected										Matrix: Soli
Date Received:										Solids: 84.
<u> </u>		-								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.54 g	2 mL	38053	09/14/22 08:48	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38054	09/14/22 11:25	NMI	EET SPK
Client Samp		oil-Sent13-3	0Pro4					Lab Samp		0.18606-
Date Collected										
Date Collected: Date Received:										Matrix: Soli
		-								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Pron Type	Type	Method	Pun	Factor	Amount	Amount	Number	or Analyzed	Analyst	

Lab

EET SPK

Analyst

NMI

Amount

Amount

Number

38052

or Analyzed

09/14/22 08:38

## Client Sample ID: SVE-Soil-Sept13-30Pre4 Date Collected: 09/13/22 12:52

Date Received: 09/13/22 14:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.09 g	2 mL	38053	09/14/22 08:48	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38054	09/14/22 11:41	NMI	EET SPK

### Client Sample ID: Trip Blank Date Collected: 09/13/22 00:00 Date Received: 09/13/22 14:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.56 g	2 mL	38053	09/14/22 08:48	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38054	09/14/22 11:57	NMI	EET SPK

#### Laboratory References:

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

Job ID: 590-18606-1

Percent Solids: 86.2

Matrix: Solid

Matrix: Solid

Lab Sample ID: 590-18606-4

Lab Sample ID: 590-18606-5

# 2 3 4 5 6 7

# Accreditation/Certification Summary

### Laboratory: Eurofins Spokane

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

uthority	I	Program	Identification Number	Expiration Date
Vashington		State	C569	01-06-23
	•	out the laboratory is not certif	fied by the governing authority. This list ma	ly include analytes for whic
the agency does not of	fer certification.	-	, , , , ,	ly include analytes for whic
	•	Dut the laboratory is not certif	and by the governing authority. This list ma	ly include analytes for whic
the agency does not of	fer certification.	-	, , , , ,	y include analytes for whic

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

#### Protocol References:

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

maronno oponano

11922 East 1st Ave Spokane, WA 99206

# Chain of Custody Record

Environment Testing America

Phone (509) 924-9200 Phone (509) 924-9290																				America	
Client Information	Sampier Jered Newcomb	D, JAN		A	.ab PM: Arringto		₹and€	e E						Trackin		i):			COC No:		
Client Contact: Jered Newcomb	Phone: 509-899-4371				-Mail: Randee	ə.Arr	ringto	n@et.ei	urofin	ISUS.C	:om		State o NA	of Origin:	:				Page: Page 1 of 1		
Company: HDR Inc			PWSID:						A	unaly	/sis	Requ	lest	ed					Job #:		
Address: 835 N Post St. Ste. 101	Due Date Requeste	Jd							Τ	Τ	$\Box$								Preservation Codes A HCL M Hexane		
City: Spokane	TAT Requested (da	ays): 24 ho	Jur																B NaOH C Zn Acetate	N None O AsNaO2	
State, Zip: WA, 99202	Compliance Projec	ot: A Yes	A No																E NaHSO4	P Na2O4S Q Na2SO3 R Na2S2O3	
Phone: 509-899-4371	PO #: Purchase Order	r Requested	<u> </u>		6							1			192000		G Amchlor H Ascorbic Acid	S H2SO4 T TSP Dodecahydraie			
Email: jered.newcomb@hdrinc.com	WO #:					No.										2		J DI Water	U Acetone V MCAA W pH 4-5		
Project Name: Simplot Warden	Project #: 59002373				Sample (Yes or No	68.00											·····	containers	L EDA	Z other (specify)	
Site: Warden WA	SSOW#:				Samr	SDO												6	Olher'		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/o ET=Tissue A=Air)	ة عن تج X Field Filtered	Perform MSA	8011 EDB	स्टरग्रेस्ट्रान्स्य स्वास्थ्य	यहर्ष स्वायन्त्रन्त		W Stransburg							Total Number	Special Ins	tructions/Note:	
			Preservat	2014 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	and the second		N		_	1_			4			4!	L	凶			
SVE-Soil-Sept   2 -30Pre1	9/ 1 } /2022	1246	G	S	N	· · · · ·							$\downarrow$						ļ		
SVE-Soil-Sept 3-30Pre2	9/ ] ] /2022	1248	G	S	N	N	X	$\square$	$\perp$				$\perp$				Ц				
SVE-Soil-Sept ( ) -30Pre3	9/ } / 2022	1250	G	S	N	N	X														
SVE-Soil-Sept	91 } 3 12022	1252	G	S	N	N	×														
Trip Blank	!			S	N	N	x														
	-	ļ	<u> </u>				<u> </u>	<b></b>							_						
	-		<u></u>		-	$\downarrow$	$\square$		III									54 <u>1</u>			
									59	) 	606 C	Chain	of C	ustody							
									1				1		1	1		-]			
Possible Hazard Identification Non-Hazard annmable S itant Pois Deliverable Requested: I II III, IV Other (specify)	sbn B 🗔 n	nown 🗌	Radiological				<u>ل</u>	Dispos eturn To Instructi	o Cliei	nt		Dis	sposa	sed if s al By L		oles ar			ed longer than 1 i ive For	month) Months	
		-					BCIAIN	กรชนบล	onsis		Bquire	Anena									
Empty Kit Relinquished by Relinquished by: Jered Newcomb & 17/1		Date:			Ti	me:	151.14		~ ~				N	dethod o						<b>A</b>	
M	Date/Time: 9/13/22	14	.96	Company				ived by:		29	Ð	<u>`</u>				te/Time:		2	14:30	Company GETSRO	
Relinquished by:	Date/Time:		C	Company			Recei	ived by: 🖊	U	/ _	_	Date/Time:					:			Company	
Relinquished by:	Date/Time:			Company				ived by:							Date/Time: Company						
Custody Seals Intact: Custody Seal No. Δ Yes Δ No				Page	13 o	of 1.	Coole	er Temper	ature(s	⊧) °C ar	nd Othe	ar Rema	arks:	36	5	(60)	<u> </u>	V	000	9/14/202	

## Login Sample Receipt Checklist

### Client: HDR Inc

#### Login Number: 18606 List Number: 1 Croater: Fottig Bilov

Creator:	Fettig, Riley

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

### Job Number: 590-18606-1

List Source: Eurofins Spokane

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 590-18636-1

Client Project/Site: Simplot Warden

# For:

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

Attn: Jered Newcomb

Candre Arrington

Authorized for release by: 9/16/2022 4:46:13 PM

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

LINKS Review your project results through EOL Have a Question? Ask The Expert 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.

# **Table of Contents**

Cover Page	1
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Sample Summary	4
Definitions	5
Client Sample Results	6
QC Sample Results	8
Chronicle	9
Certification Summary	11
Method Summary	12
Chain of Custody	13
Receipt Checklists	14

## Job ID: 590-18636-1

### Laboratory: Eurofins Spokane

#### Narrative

### Receipt

The samples were received on 9/16/2022 8:30 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 1.7° C.

### GC Semi VOA

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

### **General Chemistry**

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

### **Organic Prep**

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

# Sample Summary

### Client: HDR Inc Project/Site: Simplot Warden

Job ID: 590-18636-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18636-1	SVE-Soil-Sept15-31Pre1	Solid	09/15/22 16:33	09/16/22 08:30
590-18636-2	SVE-Soil-Sept15-31Pre2	Solid	09/15/22 16:35	09/16/22 08:30
590-18636-3	SVE-Soil-Sept15-31Pre3	Solid	09/15/22 16:39	09/16/22 08:30
590-18636-4	SVE-Soil-Sept15-31Pre4	Solid	09/15/22 16:41	09/16/22 08:30
590-18636-5	SVE-Soil-Sept15-31DUP	Solid	09/15/22 16:30	09/16/22 08:30
590-18636-6	Trip Blank	Solid	09/15/22 00:00	09/16/22 08:30

# **Definitions/Glossary**

### Client: HDR Inc Project/Site: Simplot Warden

Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

TEQ TNTC Job ID: 590-18636-1

Glossary		3
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	5
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)	ð
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
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)	

# **Client Sample Results**

Client: HDR Inc

Job ID: 590-18636-1

Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:41 Date Received: 09/15/22 16:41 Date Received: 09/16/22 08:30 General Chemistry	12.9 87.1 I-Sept15-3 Result ND	Qualifier	RL 0.01 0.01 RL 0.057	0.01 0.01 MDL	%	<u> </u>	Prepared 09/16/22 08:49	Analyzed 09/16/22 08:35 09/16/22 08:35 e ID: 590-18 Matrix Percent Solic Analyzed 09/16/22 12:15 e ID: 590-18	<b>x: Solid</b> <b>ds: 87.1</b> <u>Dil Fac</u> 1
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:41	12.9 87.1 I-Sept15-3 Result ND	31Pre3 Qualifier	0.01 0.01	0.01 0.01 MDL	% % Unit	L	ab Sample Prepared 09/16/22 08:49	Analyzed 09/16/22 08:35 09/16/22 08:35 e ID: 590-18 Matrix Percent Solic Analyzed 09/16/22 12:15 e ID: 590-18	Dil Fac 1 3636-3 k: Solid ds: 87.1 Dil Fac 1 3636-4
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil	12.9 87.1 I-Sept15-3 Result ND	31Pre3 Qualifier	0.01 0.01	0.01 0.01 MDL	% % Unit	L	ab Sample Prepared 09/16/22 08:49	Analyzed 09/16/22 08:35 09/16/22 08:35 e ID: 590-18 Matrix Percent Solic Analyzed 09/16/22 12:15 e ID: 590-18	Dil Fac 1 3636-3 k: Solid ds: 87.1 Dil Fac 1 3636-4
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	12.9 87.1 I-Sept15-3 Result ND	31Pre3 Qualifier	0.01 0.01	0.01 0.01 MDL	% % Unit	L	ab Sample Prepared 09/16/22 08:49	Analyzed 09/16/22 08:35 09/16/22 08:35 Percent Solic Analyzed 09/16/22 12:15	Dil Fac 1 3636-3 x: Solid ds: 87.1 Dil Fac 1
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 Method: 8011 - EDB Analyte	12.9 87.1 I-Sept15-3 Result	31Pre3	0.01 0.01	0.01 0.01 MDL	% % Unit	L	ab Sample	Analyzed 09/16/22 08:35 09/16/22 08:35 ID: 590-18 Matrix Percent Solic Analyzed	Dil Fac 1 3636-3 k: Solid ds: 87.1
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 Method: 8011 - EDB	12.9 87.1 I-Sept15-3	31Pre3	0.01	0.01	%	L	ab Sample	Analyzed 09/16/22 08:35 09/16/22 08:35 e ID: 590-18 Matriz Percent Solid	Dil Fac 1 3636-3 k: Solid ds: 87.1
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30	12.9 87.1		0.01	0.01	%		ab Sample	Analyzed 09/16/22 08:35 09/16/22 08:35 DO: 590-18 Matri:	Dil Fac 1 3636-3 k: Solid
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:39	12.9 87.1		0.01	0.01	%		ab Sample	Analyzed 09/16/22 08:35 09/16/22 08:35 DO: 590-18 Matri:	Dil Fac 1 3636-3 k: Solid
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil	12.9 87.1		0.01	0.01	%			Analyzed 09/16/22 08:35 09/16/22 08:35 DID: 590-18	Dil Fac 1 1 3636-3
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte Percent Moisture Percent Solids	12.9 87.1		0.01	0.01	%			Analyzed 09/16/22 08:35 09/16/22 08:35	Dil Fac 1 1
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte Percent Moisture	12.9	Qualifier	0.01	0.01	%	<u>D</u>	Prepared	Analyzed	Dil Fac
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry Analyte		Qualifier				D	Prepared	Analyzed	Dil Fac
Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30 General Chemistry									
Date Collected: 09/15/22 16:39								Watri	k: Solid
•									v Salid
Client Comple ID: CV/C Coll	1-Sept15-	STPres				L	ab Sample	D: 590-18	5030-3
	0	0400					- h. O h.	ID. 500.44	
1,2-Dibromoethane (EDB)	ND		0.056		ug/Kg		<u> </u>	09/16/22 11:58	1
Method: 8011 - EDB Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Date Collected: 09/15/22 16:35 Date Received: 09/16/22 08:30	reoptio								k: Solid
 Client Sample ID: SVE-Soil		31 Dra?				-	ah Samala	D: 590-18	2636 3
Percent Moisture Percent Solids	12.0 88.0		0.01 0.01	0.01				09/16/22 08:35 09/16/22 08:35	1
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
General Chemistry									
Date Collected: 09/15/22 16:35 Date Received: 09/16/22 08:30								Matri	k: Solid
Client Sample ID: SVE-Soi	I-Sept15-	31Pre2				L	ab Sample	D: 590-18	3636-2
1,2-Dibromoethane (EDB)	ND		0.052	0.036	ug/Kg	₩ Å	09/16/22 08:49	09/16/22 11:10	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
_ Method: 8011 - EDB									
Date Received: 09/16/22 08:30							-	Percent Solid	
Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:33	I-Sept15-	31Pre1				L	ab Sample	D: 590-18	3 <mark>636-1</mark> k: Solid
Percent Solids	89.0		0.01	0.01	%			09/16/22 08:35	1
Percent Moisture	11.0		0.01	0.01				09/16/22 08:35	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
-								Matri	k: Solid
						L	ab Sample	e ID: 590-18	
Date Collected: 09/15/22 16:33	I-Sept15-	31Pre1						10 -00 44	
Project/Site: Simplot Warden Client Sample ID: SVE-Soil Date Collected: 09/15/22 16:33 Date Received: 09/16/22 08:30	I-Sept15-	31Pre1							0000 4

# **Client Sample Results**

Client: HDR Inc

Job ID: 590-18636-1

Project/Site: Simplot Warden								JOD ID. 590-	10030-1
Client Sample ID: SVE-Soil- Date Collected: 09/15/22 16:41 Date Received: 09/16/22 08:30	Sept15-	31Pre4				L	ab Sample	e ID: 590-18 Matrix	3 <b>636-4</b> k: Solid
General Chemistry (Continued)									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.6		0.01	0.01	%			09/16/22 08:35	1
Client Sample ID: SVE-Soil- Date Collected: 09/15/22 16:41 Date Received: 09/16/22 08:30	Sept15-	31Pre4				L		e ID: 590-18 Matrix Percent Solic	k: Solid
Method: 8011 - EDB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	0.062		0.057	0.040	ug/Kg	<u></u>	09/16/22 08:49	09/16/22 12:31	1
Date Collected: 09/15/22 16:30 Date Received: 09/16/22 08:30 General Chemistry								Matrix	k: Solid
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.5		0.01	0.01	%			09/16/22 08:35	1
Percent Solids	87.5		0.01	0.01	%			09/16/22 08:35	1
Client Sample ID: SVE-Soil-	Sept15-	31DUP				L	ab Sample	e ID: 590-18	3636-5
Date Collected: 09/15/22 16:30 Date Received: 09/16/22 08:30									k: Solid
Method: 8011 - EDB									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.056	0.039	ug/Kg	☆	09/16/22 08:49	09/16/22 12:47	1
<b>Client Sample ID: Trip Blank</b>	(					L	ab Sample	e ID: 590-18	3636-6
Date Collected: 09/15/22 00:00 Date Received: 09/16/22 08:30									k: Solid
Method: 8011 - EDB		<b>.</b>				_			<b>_</b>
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		09/16/22 08:49	09/16/22 13:03	1

Method: 8011 - EDB

Lab Sample ID: MB 590-38097	7/ <b>2-A</b>								Clie	ent Sam	ple ID: M		
Matrix: Solid											Prep Ty Prep B		
Analysis Batch: 38100		MB MB									Frep	balch.	20031
Analyte	Po	sult Qualifier	RL		MDL	Unit		D	D	repared	Analyz	od	Dil Fac
1,2-Dibromoethane (EDB)		ND Quaimer	0.050		0.035		]	_		•	09/16/22		1
Leh Comple ID: LCC 500 2900							01		6		Lab Car	trol C	male
Lab Sample ID: LCS 590-3809 Matrix: Solid	1/3-A						CII	ent	Sar	inple ID:	Lab Cor Prep Ty		
Analysis Batch: 38100											Prep B		
Analysis Datch. 30100			Spike	LCS	LCS						%Rec	aton.	50057
Analyte			Added	Result			Unit		D	%Rec	Limits		
1,2-Dibromoethane (EDB)			1.00	0.966			ug/Kg		_	97	60 - 140		
							<b>o</b>	_					4 D 4
Lab Sample ID: 590-18636-1 M	15						Client	Sam	pie	ID: SVI	E-Soil-Se	-	
Matrix: Solid											Prep Ty		
Analysis Batch: 38100	0	0	0								Prep E	satch:	38097
Amalysis	Sample	Sample Qualifier	Spike Added	Result	MS		Unit		•	%Rec	%Rec Limits		
Analyte 1,2-Dibromoethane (EDB)	ND	Quaimer	1.07	0.836	Qua	inter	ug/Kg		D 	78 -	60 - 140		
	ND		1.07	0.030			uy/Ny		745	70	00 - 140		
Lab Sample ID: 590-18636-1 M	ISD					(	Client \$	Sam	nple	ID: SVE	E-Soil-Se	pt15-3	1Pre1
Matrix: Solid											Prep Ty	pe: To	tal/NA
Analysis Batch: 38100											Prep E	Batch:	38 <mark>09</mark> 7
	Sample	-	Spike	MSD	MSD	)					%Rec		RPD
Analyte		Qualifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limit
1,2-Dibromoethane (EDB)	ND		1.06	0.824			ug/Kg		₽	77	60 - 140	1	20
Aethod: Moisture - Perce	nt Mois	sture											
Lab Comula ID: 500 40000 4 5													
Lab Sample ID: 590-18636-1 E Matrix: Solid	0						client	Sam	ipie	טו: 57	E-Soil-Se	-	
Analysis Batch: 38094											Prep Ty	he: 10	
Analysis Dalcii. 30034	Sampla	0			БШ								

	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Percent Moisture	11.0		 10.9		%			1	20
Percent Solids	89.0		89.1		%			0.2	20

Initial

Amount

Initial

Amount

10.80 g

1 mL

Final

Amount

Final

Amount

2 mL

1 mL

Batch

38094

Batch

38097

38100

Number

Number

Dil

1

Dil

1

Factor

Factor

Run

Run

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

## Client Sample ID: SVE-Soil-Sept15-31Pre1 Date Collected: 09/15/22 16:33 Date Received: 09/16/22 08:30

Client Sample ID: SVE-Soil-Sept15-31Pre1

Batch

Method

Moisture

Batch

8011

8011

Method

Batch

Туре

Analysis

Batch

Туре

Prep

Analysis

Lab Sample ID: 590-18636-1

Lab Sample ID: 590-18636-1

Prepared

or Analyzed

Prepared

or Analyzed

09/16/22 08:49 NMI

09/16/22 11:10 NMI

09/16/22 08:35 NMI

	100 ID. 00	0-10000-1	
e		-18636-1 trix: Solid	
_	Analyst	Lab	5
-	NMI	EET SPK	
Ρ		ntrix: Solid olids: 89.0	
			8
	Analyst	Lab	
9	NMI	EET SPK	-9
0	NMI	EET SPK	4 0
ρ	ID: 590	-18636-2	

EET SPK EET SPK Lab Sample ID: 590-18636-2 Matrix: Solid

### Client Sample ID: SVE-Soil-Sept15-31Pre2 Date Collected: 09/15/22 16:35

Date Received: 09/16/22 08:30

Date Collected: 09/15/22 16:33

Date Received: 09/16/22 08:30

_	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			38094	09/16/22 08:35	NMI	EET SPK

# Client Sample ID: SVE-Soil-Sept15-31Pre2

Date Collected: 09/15/22 16:35 Date Received: 09/16/22 08:30

### Lab Sample ID: 590-18636-2 Matrix: Solid

Percent Solids: 88.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.07 g	2 mL	38097	09/16/22 08:49	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38100	09/16/22 11:58	NMI	EET SPK

### Client Sample ID: SVE-Soil-Sept15-31Pre3 Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30

## Lab Sample ID: 590-18636-3 Matrix: Solid

Lab Sample ID: 590-18636-3

Lab Sample ID: 590-18636-4

Batch Batch Dil Initial Final Batch Prepared or Analyzed Prep Type Туре Method Run Factor Amount Amount Number Analyst Lab Total/NA Moisture 38094 09/16/22 08:35 NMI EET SPK Analysis 1

### Client Sample ID: SVE-Soil-Sept15-31Pre3 Date Collected: 09/15/22 16:39 Date Received: 09/16/22 08:30

Date Receive	d: 09/16/22 0	8:30						Р		olids: 87.1
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.12 g	2 mL	38097	09/16/22 08:49	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38100	09/16/22 12:15	NMI	EET SPK

### Client Sample ID: SVE-Soil-Sept15-31Pre4 Date Collected: 09/15/22 16:41 Date Received: 09/16/22 08:30

_	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			38094	09/16/22 08:35	NMI	EET SPK

**Eurofins Spokane** 

Matrix: Solid

Matrix: Solid

Client Sam	•		15-31Pre	<del>)</del> 4			L	ab Sample		
Date Collecte Date Receive								P		atrix: Solic olids: 86.6
	u. 03/10/22 0	0.00								01103.00.0
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.21 g	2 mL	38097	09/16/22 08:49	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38100	09/16/22 12:31	NMI	EET SPK
<b>Client Sam</b>	ple ID: SVE	E-Soil-Sept	15-31DU	Ρ			L	ab Sample	ID: 590	-18636-5
Date Collecte	-									atrix: Solic
Date Receive	d: 09/16/22 0	8:30								
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
								·	-	
Total/NA	-	-	15-31DU	1 P			38094	09/16/22 08:35 ab Sample		
	ple ID: SVE d: 09/15/22 1	E <mark>-Soil-Sept</mark> 6:30	15-31DU					ab Sample	ID: 590 Ma	-18636-5 atrix: Solic
- Client Sam Date Collecte	ple ID: SVE d: 09/15/22 1	E <mark>-Soil-Sept</mark> 6:30	15-31DU		Initial	Final		ab Sample P	ID: 590 Ma	-18636-5 atrix: Solic
- Client Sam Date Collecte	ple ID: SVE d: 09/15/22 1 d: 09/16/22 0	E-Soil-Sept 6:30 8:30	15-31DU Run	P	Initial Amount	Final Amount	L	ab Sample	ID: 590 Ma	-18636-5 atrix: Solic
- Client Sam Date Collecte Date Receive	ple ID: SVE d: 09/15/22 1 d: 09/16/22 0 Batch	E-Soil-Sept 6:30 8:30 Batch		P			L	ab Sample P Prepared	ID: 590 Ma ercent S	-18636-5 atrix: Solic olids: 87.5
- Client Sam Date Collecte Date Receive - Prep Type	ple ID: SVE d: 09/15/22 1 d: 09/16/22 0 Batch Type	E-Soil-Sept 6:30 8:30 Batch Method		P	Amount	Amount	L Batch Number	ab Sample P Prepared or Analyzed	ID: 590 Ma ercent S Analyst NMI	-18636-5 atrix: Solid olids: 87.5 Lab
Client Sam Date Collecte Date Receive Date Receive Total/NA Total/NA	ple ID: SVE d: 09/15/22 1 d: 09/16/22 0 Batch Type Prep Analysis	E-Soil-Sept 6:30 8:30 Batch Method 8011 8011		P Dil Factor	<b>Amount</b> 10.19 g	Amount 2 mL	L Batch <u>Number</u> 38097 38100	ab Sample P Prepared or Analyzed 09/16/22 08:49 09/16/22 12:47	ID: 590 Ma ercent S Analyst NMI NMI	-18636-5 atrix: Solic olids: 87.5 EET SPK EET SPK
Client Sam Date Collecte Date Receive Total/NA	ple ID: SVE d: 09/15/22 1 d: 09/16/22 0 Batch Type Prep Analysis ple ID: Trip	E-Soil-Sept 6:30 8:30 Batch Method 8011 8011 0 Blank		P Dil Factor	<b>Amount</b> 10.19 g	Amount 2 mL	L Batch <u>Number</u> 38097 38100	ab Sample P Prepared or Analyzed 09/16/22 08:49	ID: 590 Ma ercent S Analyst NMI NMI ID: 590	-18636-5 atrix: Solic olids: 87.5 EET SPK EET SPK EET SPK
Client Sam Date Collecte Date Receive Prep Type Total/NA Total/NA Client Sam	ple ID: SVE d: 09/15/22 1 d: 09/16/22 0 Batch Type Prep Analysis ple ID: Trip d: 09/15/22 0	E-Soil-Sept 6:30 8:30 Batch Method 8011 8011 0 Blank 0:00		P Dil Factor	<b>Amount</b> 10.19 g	Amount 2 mL	L Batch <u>Number</u> 38097 38100	ab Sample P Prepared or Analyzed 09/16/22 08:49 09/16/22 12:47	ID: 590 Ma ercent S Analyst NMI NMI ID: 590	-18636-5 atrix: Solic olids: 87.5 EET SPK EET SPK EET SPK
Client Sam Date Collecte Date Receive Prep Type Total/NA Total/NA Client Sam Date Collecte	ple ID: SVE d: 09/15/22 1 d: 09/16/22 0 Batch Type Prep Analysis ple ID: Trip d: 09/15/22 0 d: 09/16/22 0	E-Soil-Sept 6:30 8:30 Batch Method 8011 8011 0:00 8:30		P Dil Factor 1	Amount 10.19 g 1 mL	Amount 2 mL 1 mL	L Batch Number 38097 38100	ab Sample Prepared or Analyzed 09/16/22 08:49 09/16/22 12:47 ab Sample	ID: 590 Ma ercent S Analyst NMI NMI ID: 590	-18636-5 atrix: Solic olids: 87.5 EET SPK EET SPK EET SPK
Client Sam Date Collecte Date Receive Prep Type Total/NA Total/NA Client Sam Date Collecte Date Receive	ple ID: SVE d: 09/15/22 1 d: 09/16/22 0 Batch Type Prep Analysis ple ID: Trip d: 09/15/22 0 d: 09/16/22 0 Batch	E-Soil-Sept 6:30 8:30 Batch Method 8011 8011 0 Blank 0:00		P Dil Factor 1 Dil	<b>Amount</b> 10.19 g	Amount 2 mL	L Batch <u>Number</u> 38097 38100	ab Sample Prepared or Analyzed 09/16/22 08:49 09/16/22 12:47 ab Sample Prepared	ID: 590 Ma ercent S Analyst NMI NMI ID: 590 Ma	-18636-5 atrix: Solic olids: 87.5 <u>Lab</u> EET SPK EET SPK -18636-6 atrix: Solic
Client Sam Date Collecte Date Receive Prep Type Total/NA Total/NA Client Sam Date Collecte	ple ID: SVE d: 09/15/22 1 d: 09/16/22 0 Batch Type Prep Analysis ple ID: Trip d: 09/15/22 0 d: 09/16/22 0	E-Soil-Sept 6:30 8:30 Batch Method 8011 8011 0 Blank 0:00 8:30 Batch	Run	P Dil Factor 1	Amount 10.19 g 1 mL	Amount 2 mL 1 mL	L Batch Number 38097 38100 L Batch	ab Sample Prepared or Analyzed 09/16/22 08:49 09/16/22 12:47 ab Sample	ID: 590 Ma ercent S Analyst NMI NMI ID: 590	-18636-5 atrix: Solic olids: 87.5 EET SPK EET SPK

Lab Chronicle

#### Laboratory References:

Client: HDR Inc

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

Job ID: 590-18636-1

8

## 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	St	ate	C569	01-06-23
The following analyte:	s are included in this repo	ort, but the laboratory is i	not certified by the governing authority.	This list may include analytes for whic
the agency does not c	•	,	······································	·····
• •	•	Matrix	Analyte	·····, ·····, ·····, ·····, ···, ··, ··, ··, ···, ··, ···, ···, ···, ··, ···, ···, ···, ··, ··, ··, ··, ··, ··, ··, ··, ··, ··, ···, ··,
the agency does not o	offer certification.		, , , , ,	

# **Method Summary**

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

#### **Protocol References:**

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

Laronno opona io

11922 East 1st Ave

# **Chain of Custody Record**

euro	fins	

4 N

Environment Test ng America

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

Client Contact: P Jered Newcomb 5 Company: HDR Inc Address. B 835 N Post St. Ste 101	Jered Newcomb Phone: 509-899-4371 Due Date Requeste TAT Requested (da Compliance Projec PO #: Purchase Order	ays): 24 ho		E	Arringto -Mail: Randee	-					om sis Re	State of WA					Page: Page 1 of 1 Job #:		3
Company: HDR Inc Address. 835 N Post St. Ste 101 City: Spokane	Due Date Requeste TAT Requested (da Compliance Projec PO #:	ays): 24 ho	ur	<u>I</u> E		e.Arri	ingto	n@et.e											-12
HDR Inc Address. 835 N Post St. Ste 101 City: Spokane	TAT Requested (da Compliance Projec PO #:	ays): 24 ho	ur						A	nalvs	sis Re	dupet	nd n						
835 N Post St. Ste 101 City: T Spokane T	TAT Requested (da Compliance Projec PO #:	ays): 24 ho			_							quoan	gu						
City: T Spokane	Compliance Projec PO #:	24 ho			-												Preservation Cod		- 4
State, Zio:	PO #:	:t: ∧ ¥es /															A HCL B NaOH C Zn Acetate	M Hexane N None O AsNaO2	5
WA, 99202	PO #:		A No							1 1						10000	D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3	
Phone: P	Purchase Order				-												F MeOH G Amchlor	R Na2S2O3 S H2SO4	6
	NO #	Requested			- 9											100	H Ascorbic Acid	T TSP Dodecahydrate	•
Email: jered.newcomb@hdrinc.com	WO #:				or N	(oN										2	Ice JDIWater	U Acetone V MCAA	
Simplot Warden 5	Project #: 59002373				le (Yes	95 OF										ntainei	K EDTA L EDA	W pH 4-5 Z other (specify)	8
site:	SSOW#:				Idme	N a										of cont	Other'		
			Sample	Matrix (Wewster	1.9				ľ										- 9
		Sample	Type (C=comp,	S=solid, O=wasielo BT=Tissu	eld Filt	Perform	8011 EDB									Total Number			10
Sample Identification	Sample Date	Time	G=grab) Preserval	A=AIr)			8 N		and and a							K	Special In	structions/Note:	
SVE-Soil-Sept 5-31Pre1	9/ ) 5 /2022	1633	G	S		N		<u></u>				+				쒸			
	9/15/2022 9/15/2022	1635	G	s	N	N	×						+					. <u></u>	12
······································	9/15/2022	1639	G	s		N								┝──┢		-	<u></u>		
	9/ 15/2022	1641	G			N							+						
	9/16/2022	1630	G	S		N							-						
Trip Blank		.0.30		S	N	N	X						}			F :			
					+														
									1										
				· :										590	-18636	Cha	in of Custody		
															]		1		
																		· · · · · · · · · · · · · · · · · · ·	
Possible Hazard Identification		<u> </u>				Sai	mple	Dispo	sal ( /	A fee r	nay be	assess	ed if sa	mple	s are re	tain	ed longer than 1	month)	
Non-Hazard ammable Solutiant Poisb	n B	iown	Radiological	1					To Clie			Disposa	al By La	b		Arch	ive For	Months	
Deliverable Requested: I II, III, IV Other (specify)						Spe	ecial	Instruc	ctions/0	QC Re	quirem	ents:							
Empty Kit Relinquished by		Date:			Tir	me:						M	lethod of	Shipme	ni:			·	
Relinguished by: Jered Newcomb	Date/Time: 9/15/22	18	38	Company			Recei	ived by:	M	1	#	<u> </u>	-	Date/T	ime:   (1/2	2	830	Company EETSPO	
Relinquished by:	Datê/Time:	10		Company			Recei	ived by:	Ż	1	9			Dale/T	ime:	~		Company	-
Relinquished by:	Date/Time:	·····		Company			Recei	ived by					_	Date/T	ime:			Company	
Custody Seals Intact: Custody Seal No. 1766	691		L	Page 1	3 of	14	Coole	er Temp	erature(s	s) °C and	d Other F	lemarks:	<u></u>	<u>I</u>	1	1	172	or- 29/161006	)B

### Login Sample Receipt Checklist

### Client: HDR Inc

### Login Number: 18636 List Number: 1 Creator: Fettig, Riley

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

Job Number: 590-18636-1

List Source: Eurofins Spokane

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

### Laboratory Job ID: 590-18652-1

Client Project/Site: Simplot Warden

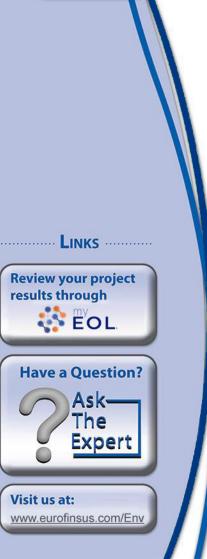
### For:

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

Attn: Jered Newcomb

Candre Arrington

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.

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

Authorized for release by: 9/20/2022 5:48:30 PM

# **Table of Contents**

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Sample Summary	4
Definitions	5
Client Sample Results	6
QC Sample Results	8
Chronicle	9
Certification Summary	11
Method Summary	12
Chain of Custody	13
Receipt Checklists	14

### Job ID: 590-18652-1

### Laboratory: Eurofins Spokane

Narrative

#### Receipt

The samples were received on 9/19/2022 4:59 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6° C.

#### GC Semi VOA

Method 8011: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 590-38140 and analytical batch 590-38143 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### **General Chemistry**

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

#### **Organic Prep**

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

### Sample Summary

### Client: HDR Inc Project/Site: Simplot Warden

Job ID: 590-18652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18652-1	SVE-Soil-Sept19-32Pre1	Solid	09/19/22 15:05	09/19/22 16:59
590-18652-2	SVE-Soil-Sept19-32Pre2	Solid	09/19/22 15:07	09/19/22 16:59
590-18652-3	SVE-Soil-Sept19-32Pre3	Solid	09/19/22 15:09	09/19/22 16:59
590-18652-4	SVE-Soil-Sept19-32Pre4	Solid	09/19/22 15:11	09/19/22 16:59
590-18652-5	Trip Blank	Solid	09/19/22 00:00	09/19/22 16:59

### **Definitions/Glossary**

Job ID: 590-18652-1

### Qualifiers

POS

PQL PRES

QC

RL RPD

TEF

TEQ TNTC

RER

Positive / Present

Presumptive

**Quality Control** 

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

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

Qualifiers		
GC Semi VO	A	
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	4
<b>General Che</b>	emistry	
Qualifier	Qualifier Description	
F3	Duplicate RPD exceeds the control limit	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	8
¤	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	

### **Client Sample Results**

Client: HDR Inc

Job ID: 590-18652-1

Client: HDR Inc Project/Site: Simplot Warden							Job ID: 590-	10002-1
Client Sample ID: SVE-Soil- Date Collected: 09/19/22 15:05 Date Received: 09/19/22 16:59	Sept19-32Pre1				L	.ab Sample	e ID: 590-18 Matri	8 <b>652-1</b> x: Solid
General Chemistry								
Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture Percent Solids	17.0 83.0	0.01 0.01	0.01 0.01				09/20/22 08:25 09/20/22 08:25	1 1
Client Sample ID: SVE-Soil-	Sept19-32Pre1				L	ab Sample	e ID: 590-1	8652-1
Date Collected: 09/19/22 15:05 Date Received: 09/19/22 16:59							Matriz Percent Solio	x: Solid ds: 83.0
 Method: 8011 - EDB								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND F1 F2	0.059		ug/Kg	<u>¤</u>	09/20/22 08:11		1
Client Sample ID: SVE-Soil-	Sept19-32Pre2				L	ab Sample	e ID: 590-18	8652-2
Date Collected: 09/19/22 15:07 Date Received: 09/19/22 16:59	·						Matri	x: Solid
General Chemistry								
Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture Percent Solids	10.6 89.4	0.01 0.01	0.01 0.01				09/20/22 08:25 09/20/22 08:25	1 1
Client Sample ID: SVE-Soil- Date Collected: 09/19/22 15:07 Date Received: 09/19/22 16:59 Method: 8011 - EDB							e ID: 590-18 Matriz Percent Solid	x: Solid
Analyte 1,2-Dibromoethane (EDB)	Result Qualifier	RL 0.055		Unit	<u> </u>	Prepared 09/20/22 08:11	Analyzed	Dil Fac
		0.000	0.050	ug/Kg				
Client Sample ID: SVE-Soil- Date Collected: 09/19/22 15:09 Date Received: 09/19/22 16:59	Sept19-32Pre3				L	ab Sample	e ID: 590-18 Matri	8652-3 x: Solid
General Chemistry								
Analyte	Result Qualifier		RL 0.01	Unit %	D	Prepared	Analyzed 09/20/22 08:25	Dil Fac
Percent Molsture Percent Solids	12.0 88.0	0.01	0.01				09/20/22 08:25	1
Client Sample ID: SVE-Soil-	Sept19-32Pre3				L	ab Sample	e ID: 590-18	8652-3
Date Collected: 09/19/22 15:09 Date Received: 09/19/22 16:59	-					-	Matriz Percent Solid	x: Solid ds: 88.0
 Method: 8011 - EDB								
Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	0.057	0.040	ug/Kg	\$	09/20/22 08:11	09/20/22 11:00	1
Client Sample ID: SVE-Soil- Date Collected: 09/19/22 15:11 Date Received: 09/19/22 16:59	Sept19-32Pre4				L	.ab Sample	e ID: 590-18 Matri	8 <b>652-4</b> x: Solid
General Chemistry								
Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2	0.01	0.01	%			09/20/22 08:25	1

### **Client Sample Results**

		Client (	Sample F	Resul	ts					1
Client: HDR Inc Project/Site: Simplot Warden								Job ID: 590-1	8652-1	2
Client Sample ID: SVE-Soil-S Date Collected: 09/19/22 15:11	ept19-	32Pre4				L	ab Sample	e ID: 590-18 Matrix	3 <b>652-4</b> k: Solid	
Date Received: 09/19/22 16:59										
General Chemistry (Continued) Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Percent Solids	89.8		0.01	0.01	%			09/20/22 08:25	1	
Client Sample ID: SVE-Soil-S	ept19-	32Pre4				L	ab Sample	e ID: 590-18	3652-4	6
Date Collected: 09/19/22 15:11 Date Received: 09/19/22 16:59	·								k: Solid	
Method: 8011 - EDB										8
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	₩	09/20/22 08:11	09/20/22 11:17	1	9
Client Sample ID: Trip Blank						L	ab Sample	e ID: 590-18	3652-5	10
Date Collected: 09/19/22 00:00								Matrix	k: Solid	
Date Received: 09/19/22 16:59										
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		09/20/22 08:11	09/20/22 11:33	1	

### Method: 8011 - EDB

_ab Sample ID: MB 590-381	40/2-A								C	lie	nt Sam	ole ID: M	ethod	Blank
Matrix: Solid												Prep Ty	pe: Tot	tal/NA
Analysis Batch: 38143												Prep B	atch:	38140
		MB MB												
Analyte	Re	sult Qua	lifier	RL		MDL L	-		D	Pı	repared	Analyz	ed	Dil Fa
,2-Dibromoethane (EDB)		ND		0.050	0	).035 u	ıg/Kg	I	C	9/2	0/22 08:11	09/20/22	09:23	
ab Sample ID: LCS 590-38	140/3-A							Cli	ent S	Sar	nple ID:	Lab Con	trol Sa	ample
Matrix: Solid												Prep Ty	pe: Tot	tal/N/
Analysis Batch: 38143												Prep B	atch: 3	3814
			Spike	•	LCS	LCS						%Rec		
nalyte			Addeo	1	Result	Qualif	fier	Unit		D	%Rec	Limits		
,2-Dibromoethane (EDB)			1.00	)	0.820			ug/Kg			82	60 - 140		
_ab Sample ID: 590-18652-1	MS						C	Client \$	Sam	ple	ID: SVE	E-Soil-Se	pt19-3	2Pre
Matrix: Solid												Prep Ty	pe: Tot	tal/N
Analysis Batch: 38143												Prep B	atch:	3814
-	Sample	Sample	Spike	•	MS	MS						%Rec		
Analyte	Result	Qualifier	Addeo	I	Result	Qualif	fier	Unit		D	%Rec	Limits		
,2-Dibromoethane (EDB)	ND	F1 F2	1.20	)	0.782			ug/Kg		<del>\\\</del>	65	60 - 140		
_ab Sample ID: 590-18652-1	MSD						C	Client \$	Sam	ple	ID: SVE	-Soil-Se	pt19-3	2Pre
Matrix: Solid												Prep Ty	pe: Tot	tal/N
Analysis Batch: 38143												Prep B	atch:	3814
-	Sample	Sample	Spike	)	MSD	MSD						%Rec		RPI
-	Result	Qualifier	Addeo	I	Result	Qualif	fier	Unit		D	%Rec	Limits	RPD	Limi
nalyte		F1 F2	1.20	<u> </u>	0 581	F1 F2		ug/Kg		₽	48	60 - 140	29	2

#### Lab Sample ID: 590-18652-1 DU Matrix: Solid

#### Client Sample ID: SVE-Soil-Sept19-32Pre1 Prep Type: Total/NA

Analysis Batch: 38142									
	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Percent Moisture	17.0		 13.1	F3	%		 	26	20
Percent Solids	83.0		86.9		%			5	20

### Client Sample ID: SVE-Soil-Se Date Collected: 09/19/22 15:05 Date Received: 09/19/22 16:59

Client Samp		E-Soil-Sept	19-32Pre	<b>)1</b>			L	ab Sample		-18652-1 atrix: Solid
Date Received	d: 09/19/22 1	6:59								
-	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			38142	09/20/22 08:25	NMI	EET SPK
Client Samp	ole ID: SVI	E-Soil-Sept	19-32Pre	e1			L	ab Sample	ID: 590	-18652-1
Date Collected										atrix: Solid
Date Received	d: 09/19/22 1	6:59						Р	ercent S	olids: 83.0
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.13 g	2 mL	38140	09/20/22 08:11	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38143	09/20/22 09:56	NMI	EET SPK
Client Samp	ole ID: SVI	E-Soil-Sept	19-32Pre	2			L	ab Sample	ID: 590	-18652-2
Date Collected				-			_			atrix: Solid
Date Received										
_	Datak	Detak		Dil	luciti e l	Final	Detah	Duenened		
Bron Tuno	Batch	Batch Method	Dun	Dil Factor	Initial Amount	Final	Batch Number	Prepared	Analyst	Lab
Prep Type Total/NA	<b>Type</b> Analysis	Moisture	Run	1	Amount	Amount	- 1000 - 10000 - 1000 - 10000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000	or Analyzed 09/20/22 08:25	NMI	EET SPK
	7 (10) 900	Woldtare					00142	00/20/22 00.20		LETOIR
Client Samp	ole ID: SVI	E-Soil-Sept	19-32Pre	2			L	ab Sample	ID: 590	-18652-2
Date Collected	d: 09/19/22 1	5:07	19-32Pre	2			L		Ма	atrix: Solid
	d: 09/19/22 1	5:07	19-32Pre	2			L		Ма	
Date Collected	d: 09/19/22 1	5:07	19-32Pre	2 Dil	Initial	Final	L		Ма	atrix: Solid
Date Collected	d: 09/19/22 1 d: 09/19/22 1	5:07 6:59	19-32Pre		Initial Amount	Final Amount		P	Ма	atrix: Solid
Date Collected Date Received	d: 09/19/22 1 d: 09/19/22 1 Batch	5:07 6:59 Batch		Dil			Batch	P Prepared	Ma ercent S	atrix: Solid olids: 89.4
Date Collected Date Received Prep Type	d: 09/19/22 1 d: 09/19/22 1 Batch Type	5:07 6:59 Batch Method		Dil	Amount	Amount	Batch Number	P Prepared or Analyzed	Ma ercent S Analyst NMI	atrix: Solid olids: 89.4
Date Collected Date Received Prep Type Total/NA	d: 09/19/22 1 d: 09/19/22 1 Batch Type Prep Analysis	5:07 6:59 Batch Method 8011 8011	<u>Run</u>	Dil Factor 1	<b>Amount</b> 10.17 g	Amount 2 mL	<b>Batch</b> Number 38140 38143	Prepared or Analyzed 09/20/22 08:11	Ma ercent S Analyst NMI NMI	Lab EET SPK EET SPK
Date Collected Date Received Prep Type Total/NA Total/NA	d: 09/19/22 1 d: 09/19/22 1 Batch Type Prep Analysis	5:07 6:59 Batch Method 8011 8011 E-Soil-Sept	<u>Run</u>	Dil Factor 1	<b>Amount</b> 10.17 g	Amount 2 mL	<b>Batch</b> Number 38140 38143	Prepared or Analyzed 09/20/22 08:11 09/20/22 10:44	Ma ercent S Analyst NMI NMI ID: 590	Lab EET SPK EET SPK
Date Collected Date Received Prep Type Total/NA Total/NA Client Samp	d: 09/19/22 1 d: 09/19/22 1 Batch Type Prep Analysis Die ID: SVI d: 09/19/22 1	5:07 6:59 Batch Method 8011 8011 E-Soil-Sept 5:09	<u>Run</u>	Dil Factor 1	<b>Amount</b> 10.17 g	Amount 2 mL	<b>Batch</b> Number 38140 38143	Prepared or Analyzed 09/20/22 08:11 09/20/22 10:44	Ma ercent S Analyst NMI NMI ID: 590	Lab EET SPK EET SPK D-18652-3
Date Collected Date Received Prep Type Total/NA Total/NA Client Samp Date Collected	d: 09/19/22 1 d: 09/19/22 1 Batch Type Prep Analysis Die ID: SVI d: 09/19/22 1	5:07 6:59 Batch Method 8011 8011 E-Soil-Sept 5:09	<u>Run</u>	Dil Factor 1	Amount 10.17 g 1 mL	Amount 2 mL	Batch Number 38140 38143	Prepared or Analyzed 09/20/22 08:11 09/20/22 10:44 ab Sample	Ma ercent S Analyst NMI NMI ID: 590	Lab EET SPK EET SPK D-18652-3
Prep Type Total/NA Total/NA Client Samp Date Collected Date Received	d: 09/19/22 1 d: 09/19/22 1 Batch Type Prep Analysis DIE ID: SVI d: 09/19/22 1 d: 09/19/22 1 Batch	5:07 6:59 Batch Method 8011 8011 E-Soil-Sept 5:09 6:59	<u>Run</u>	Dil Factor 1	<b>Amount</b> 10.17 g	Amount 2 mL 1 mL	<b>Batch</b> Number 38140 38143	Prepared or Analyzed 09/20/22 08:11 09/20/22 10:44	Ma ercent S Analyst NMI NMI ID: 590	Lab EET SPK EET SPK D-18652-3
Date Collected Date Received Prep Type Total/NA Total/NA Client Samp Date Collected	d: 09/19/22 1 d: 09/19/22 1 Batch Type Prep Analysis Die ID: SVI d: 09/19/22 1 d: 09/19/22 1	5:07 6:59 Batch Method 8011 8011 E-Soil-Sept 5:09 6:59 Batch	<u>Run</u>	Dil Factor 1 23 Dil	Amount 10.17 g 1 mL	Amount 2 mL 1 mL	Batch Number 38140 38143 L Batch	P Prepared or Analyzed 09/20/22 08:11 09/20/22 10:44 ab Sample Prepared	Ma ercent S Analyst NMI NMI ID: 590 Ma Analyst	Lab EET SPK EET SPK EET SPK 0-18652-3 atrix: Solid

ĺ	Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
	Total/NA	Prep	8011			10.02 g	2 mL	38140	09/20/22 08:11	NMI	EET SPK
	Total/NA	Analysis	8011		1	1 mL	1 mL	38143	09/20/22 11:00	NMI	EET SPK

### Client Sample ID: SVE-Soil-Sept19-32Pre4 Date Collected: 09/19/22 15:11 Date Received: 09/19/22 16:59

_	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		-	38142	09/20/22 08:25	NMI	EET SPK

**Eurofins Spokane** 

Matrix: Solid

Lab Sample ID: 590-18652-4

### Lab Chronicle

### Client Sample ID: SVE-Soil-Sept19-32Pre4 Date Collected: 09/19/22 15:11 Date Received: 09/19/22 16:59

Lab Sample	ID:	590-18652-4
-		Matrix: Solid

Lab Sample ID: 590-18652-5

Percent Solids: 89.8

Matrix: Solid

Job ID: 590-18652-1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analvzed	Analvst	Lab
Total/NA	Prep	8011			10.09 g	2 mL	38140	09/20/22 08:11	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38143	09/20/22 11:17	NMI	EET SPK

### Client Sample ID: Trip Blank Date Collected: 09/19/22 00:00 Date Received: 09/19/22 16:59

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.34 g	2 mL	38140	09/20/22 08:11	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38143	09/20/22 11:33	NMI	EET SPK

#### Laboratory References:

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

### 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 analytes	s are included in this repo	ort but the laboratory is i	not certified by the governing authority.	This list may include analytes for which
the agency does not o	•	, 241 110 142014101 J 10 1		····· ········
• •	•	Matrix	Analyte	
the agency does not o	offer certification.		, , , , ,	

### **Method Summary**

### Client: HDR Inc Project/Site: Simplot Warden

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

#### Protocol References:

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

maronno oponano

#### 11922 East 1st Ave

### Chain of Custody Record

Environment Testing America

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

Client Information	Sampler Jered Newcomb, JAN			Lab PM: Arrington, Randee E				Carrier Tracking No(s):				COC No:			
Client Contact:	Phone:		E-Mail:							of Origin:				Page:	
Jered Newcomb	509-899-4371	Tatutaia	Rande	e.Arr	ringto	on@et.euro	ofinsus.c	om	WA					Page 1 of 1	
Company: HDR Inc		PWSID:					Analy	/sis Re	aues	ted				Job #:	
Address. 835 N Post St. Ste. 101	Due Date Requested												and the second	Preservation Cod	
City: Spokane	TAT Requested (days): 24	hour			11111								and software	A HCL B NaOH C Zn Acetate	M Hexanə N None O AsNaO2
State, Zip:			.,										2 and an and	D Nitric Acid	P Na2O4S
WA, 99202 Phone:	Compilance Project: ∆ Ye: PO #:	A No											Actual Sec	E NaHSO4 F MeOH	O Na2SO3 R Na2S2O3
509-899-4371	Purchase Order Reques	ed											of the second	G Arnchior H Ascorbic Acid	S H2SO4 T TSP Dodecahydrate
Email:	WO #:				2.4 East								Constant of the	t Ice	U Acetone
jered.newcomb@hdrinc.com Project Name:	Project #:			es N									lers	J DIWater K EDTA	V МСАА W рН 4-5
Simplot Warden	59002373		Z	es c									containers	L EDA	Z other (specify)
Sile: Warden WA	SSOW#:			A as									5	Other <sup>.</sup>	
	Sampl	Sample (wa Type <sup>S=</sup> e (C=comp, <sub>BT=</sub>	water, solid, sste/oli fissue,	elo rinereo v artorni MSMI	8011 EDB								Total Number		
Sample Identification	Sample Date Time	and the second	ili (ria:								-	and State	Ĕ	Special In:	structions/Note
		Preservation C	NA A Discourse And		N			Loop Come		hanna d	w in sec.		<b>Y</b> A		
SVE-Soil-Sept 1 -32Pre1	9/ (9 12022 150)	f	S N	N N	X										
SVE-Soil-Sept (1-32Pre2	91 9 12022 (50)	P G	s I	NN	1										
SVE-Soil-Sept 1 -32Pre3	91 9 12022 1504	G	s I	NN	X										
SVE-Soil-Sept	9/ 19/2022 [5]	G	s I	NN	x										
Trip Blank			s N	N N	x										
										590-	18652 (	Chain c	of Cu	istody	
					1										
					Γ										
Possible Hazard Identification			-	Sar	mple	Disposal	( A fee	may be	assess	sed if s	amples	are re	tain	ed longer than 1	month)
Non-Hazard ammable Si itant Pois	on B nown	Chadiological				eturn To C	lient		bispos	al By L	ab		Archi	ive For	Months
Deliverable Requested. I II III, IV Other (specify)				Spe	ecial	Instructior	s/QC R	equirem	ents.						
Empty Kit Relinquished by	Date:		Т	lime:						vlethod o	f Shipmer	nt:			
Relinquished by: Jered Newcomb	Date/Time: 9/19/22	6.56 Compa	iny		Rece	eived by:	ha	4-	I. I		Date/Ti	ime: 1/22		10 56	Company EETPD
Relinquished by:	Date/Time:	Compa	iny	Received by:				Date/Time:					Company		
Relinquished by:	Date/Time:	Compa	iny	Received by:			Date/Time: Company			Company					
Custody Seals Intact: Custody Seal No. A Yes A No	Page 13			of 14	14 Cooler Temperature(s) °C and Other Remarks: 4 1 4 6 Coust A 1/2005				9/20/2022						

### Login Sample Receipt Checklist

### Client: HDR Inc

### Login Number: 18652 List Number: 1 Creator: Fettig, Riley

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

Job Number: 590-18652-1

List Source: Eurofins Spokane

# 🛟 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

### Laboratory Job ID: 590-18671-1

Client Project/Site: Simplot Warden

### For:

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

Attn: Jered Newcomb

Candre Arrington

Authorized for release by: 9/22/2022 4:27:51 PM

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

..... Links **Review your project** results through EOL Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

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

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

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### Job ID: 590-18671-1

### Laboratory: Eurofins Spokane

#### Narrative

#### Receipt

The samples were received on 9/21/2022 2:25 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.

### Sample Summary

### Client: HDR Inc Project/Site: Simplot Warden

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18671-1	SVE-Soil-Sept21-33Pre1	Solid	09/21/22 12:02	09/21/22 14:25
590-18671-2	SVE-Soil-Sept21-33Pre2	Solid	09/21/22 12:05	09/21/22 14:25
590-18671-3	SVE-Soil-Sept21-33Pre3	Solid	09/21/22 12:06	09/21/22 14:25
590-18671-4	SVE-Soil-Sept21-33Pre4	Solid	09/21/22 12:09	09/21/22 14:25
590-18671-5	SVE-Soil-Sept21-33DUP	Solid	09/21/22 12:00	09/21/22 14:25
590-18671-6	Trip Blank	Solid	09/21/22 00:00	09/21/22 14:25

### **Definitions/Glossary**

### Client: HDR Inc Project/Site: Simplot Warden

Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

TEQ TNTC Job ID: 590-18671-1

Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	J
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
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)	

### **Client Sample Results**

Client: HDR Inc

Job ID: 590-18671-1

Client: HDR Inc Project/Site: Simplot Warden								Job ID: 590-	18671-1
Client Sample ID: SVE-Soi Date Collected: 09/21/22 12:02 Date Received: 09/21/22 14:25	I-Sept21-33	Pre1				L	ab Sample	e ID: 590-18 Matri	8671-1 x: Solid
General Chemistry						_			
Analyte	Result Q	ualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Percent Moisture Percent Solids	9.5 90.5		0.01 0.01	0.01 0.01				09/21/22 15:01 09/21/22 15:01	1
Client Sample ID: SVE-Soi	I-Sept21-33	BPre1				L	ab Sample	e ID: 590-1	8671-1
Date Collected: 09/21/22 12:02 Date Received: 09/21/22 14:25								Matri Percent Solie	x: Solid ds: 90.5
Method: 8011 - EDB									
Analyte	Result Q	ualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	¢	09/22/22 09:14	09/22/22 11:40	1
Client Sample ID: SVE-Soi Date Collected: 09/21/22 12:05 Date Received: 09/21/22 14:25	I-Sept21-33	3Pre2				L	ab Sample	e ID: 590-18 Matri	8671-2 x: Solid
General Chemistry									
Analyte	Result Q	ualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture Percent Solids	12.1 87.9		0.01 0.01	0.01 0.01				09/21/22 15:01 09/21/22 15:01	1 1
Client Sample ID: SVE-Soi Date Collected: 09/21/22 12:05 Date Received: 09/21/22 14:25 Method: 8011 - EDB					11		-	Percent Solid	x: Solid ds: 87.9
Analyte 1,2-Dibromoethane (EDB)	Result Q		<b>RL</b> 0.056		Unit ug/Kg	— <b>D</b> ¤	Prepared 09/22/22 09:14	Analyzed 09/22/22 12:28	Dil Fac
Client Sample ID: SVE-Soi Date Collected: 09/21/22 12:06 Date Received: 09/21/22 14:25	I-Sept21-33	3Pre3				L	ab Sample	e ID: 590-18 Matri	8671-3 x: Solid
General Chemistry Analyte	Result Q	uolifior	RL	ы	Unit	D	Droporod	Analyzed	Dil Fac
Percent Moisture	10.5		0.01	0.01			Prepared	09/21/22 15:01	
Percent Solids	89.5		0.01	0.01				09/21/22 15:01	1
Client Sample ID: SVE-Soi	I-Sept21-33	BPre3				L	ab Sample	e ID: 590-1	8671-3
Date Collected: 09/21/22 12:06 Date Received: 09/21/22 14:25								Matri Percent Solio	x: Solid ds: 89.5
Method: 8011 - EDB	_					_	_		<b>_</b> =
Analyte 1,2-Dibromoethane (EDB)	Result Q	ualifier	RL		Unit ug/Kg	— <u>D</u>	Prepared 09/22/22 09:14	Analyzed 09/22/22 12:44	Dil Fac
Client Sample ID: SVE-Soi	I-Sept21-33	BPre4				L	ab Sample	e ID: 590-1	8671-4
Date Collected: 09/21/22 12:09 Date Received: 09/21/22 14:25	•								x: Solid
General Chemistry	Dec.14	uolifiar	PI		110:4	~	Dremersel	م مامم م	
Analyte Percent Moisture	Result Q	ualifier	RL	0.01	Unit	<u> </u>	Prepared	Analyzed 09/21/22 15:01	Dil Fac
	11.0		0.01	0.01	70			JJ/21/22 1J.UI	I

### **Client Sample Results**

Client: HDR Inc

Job ID: 590-18671-1

Project/Site: Simplot Warden					300 10. 390-1807 1-1
Client Sample ID: SVE-So Date Collected: 09/21/22 12:09 Date Received: 09/21/22 14:25	ŀ			Lab Sample ID: 590-18671-4 Matrix: Solid	
General Chemistry (Continue	d)				
Analyte	, Result Qualifier	RL	RL	Unit	D Prepared Analyzed Dil Fac
Percent Solids	88.5	0.01	0.01	%	09/21/22 15:01 1
Client Sample ID: SVE-So	ŀ			Lab Sample ID: 590-18671-4	
Date Collected: 09/21/22 12:09					Matrix: Solid
Date Received: 09/21/22 14:25					Percent Solids: 88.5
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	Image: Comparison of the second sec
Client Sample ID: SVE-So	il-Sept21-33DUP				Lab Sample ID: 590-18671-5
Date Collected: 09/21/22 12:00 Date Received: 09/21/22 14:25					Matrix: Solid
General Chemistry					
Analyte	Result Qualifier	RL	RL	Unit	D Prepared Analyzed Dil Fac
Percent Moisture	10.2	0.01	0.01	%	09/21/22 15:01 1
Percent Solids	8 <b>9</b> .8	0.01	0.01	%	09/21/22 15:01 1
Client Sample ID: SVE-So	il-Sept21-33DUP	)			Lab Sample ID: 590-18671-5
Date Collected: 09/21/22 12:00					Matrix: Solid
Date Received: 09/21/22 14:25					Percent Solids: 89.8
Method: 8011 - EDB					
Analyte	Result Qualifier	RL	MDL	Unit	D Prepared Analyzed Dil Fac
1,2-Dibromoethane (EDB)	ND	0.054	0.038	ug/Kg	\overline{3}               09/22/22 09:14               09/22/22 13:16               1
Client Sample ID: Trip Bla	nk				Lab Sample ID: 590-18671-6
Date Collected: 09/21/22 00:00					Matrix: Solid
Date Received: 09/21/22 14:25					
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	<u> </u>

### Method: 8011 - EDB

Lab Sample ID: MB 590-381	78/2-A							(	Clie	nt Samp	ole ID: Metl	l bor	Blanl
Matrix: Solid											<b>Prep Type</b>	: Tot	al/N/
Analysis Batch: 38179											Prep Bat	ch: 3	38178
-		MB MB											
Analyte	Re	sult Qualifier	RL		MDL (	Jnit		D	Pr	repared	Analyzed	I	Dil Fa
1,2-Dibromoethane (EDB)		ND	0.050	C	).035 ι	ıg/Kg	]	(	09/22	2/22 09:14	09/22/22 11:	08	
Lab Sample ID: LCS 590-381	178/3-A						Clie	ent	San	nple ID:	Lab Contro	ol Sa	mple
Matrix: Solid											<b>Prep Type</b>	: Tot	al/N/
Analysis Batch: 38179											Prep Bat	ch: 3	38178
			Spike	LCS	LCS						%Rec		
Analyte			Added	Result	Quali	fier	Unit		D	%Rec	Limits		
1,2-Dibromoethane (EDB)			1.00	1.08			ug/Kg			108	60 - 140		
Lab Sample ID: 590-18671-1	MS					(	Client S	Sam	ple	ID: SVE	-Soil-Sept	21-3:	3Pre
Matrix: Solid											<b>Prep Type</b>	: Tot	al/N/
Analysis Batch: 38179											Prep Bat	ch: 3	3817
	Sample	Sample	Spike	MS	MS						%Rec		
Analyte	Result	Qualifier	Added	Result	Quali	fier	Unit		D	%Rec	Limits		
1,2-Dibromoethane (EDB)	ND		1.09	0.722			ug/Kg		¢	66	60 - 140		
Lab Sample ID: 590-18671-1	MSD					(	Client S	Sam	ple	ID: SVE	-Soil-Sept	21-3:	3Pre <sup>.</sup>
Matrix: Solid											<b>Prep Type</b>	: Tot	al/N/
Analysis Batch: 38179											Prep Bat	ch: 3	38178
	Sample	Sample	Spike	MSD	MSD						%Rec		RPI
Analyte	Result	Qualifier	Added	Result	Quali	fier	Unit		D	%Rec	Limits	RPD	Limi
1,2-Dibromoethane (EDB)	ND		1.10	0.708			ug/Kg		₽	65	60 - 140	2	2
lethod: Moisture - Perce	ent Mois	sture											
Lab Sample ID: 590-18671-1	DU						0	• • • • •			-Soil-Sept		

Analysis Batch: 38170									
Analysis Daten. 00170	Sample	Sample	DU	DU				RPD	
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit	
Percent Moisture	9.5		 8.4		%		 12	20	
Percent Solids	90.5		91.6		%		1	20	

Initial

Amount

Initial

Amount

10.03 g

1 mL

Dil

1

Dil

1

Factor

Factor

Run

Run

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

### Client Sample ID: SVE-Soil-Sept21-33Pre1 Date Collected: 09/21/22 12:02 Date Received: 09/21/22 14:25

Client Sample ID: SVE-Soil-Sept21-33Pre1

Batch

Method

Moisture

Batch

8011

8011

Method

Batch

Туре

Analysis

Batch

Туре

Prep

Analysis

Lab Sample ID: 590-18671-2

	-18671-1 atrix: Solid		ab Sample	L
4			Prepared	
5	Lab	Analyst	or Analyzed	ər
	EET SPK	NMI	09/21/22 15:01	
	-18671-1	ID: 590	ab Sample	L
	atrix: Solid	Ма	-	
	olids: 90.5	ercent S	P	
8			Prepared	
	Lab	Analyst	or Analyzed	ər
6	EET SPK	NMI	09/22/22 09:14	
	EET SPK	NMI	09/22/22 11:40	

Matrix: Solid

Matrix: Solid

### Client Sample ID: SVE-Soil-Sept21-33Pre2

Date Collected: 09/21/22 12:05 Date Received: 09/21/22 14:25

Date Collected: 09/21/22 12:02

Date Received: 09/21/22 14:25

_	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			38170	09/21/22 15:01	NMI	EET SPK

### Client Sample ID: SVE-Soil-Sept21-33Pre2

Date Collected: 09/21/22 12:05 Date Received: 09/21/22 14:25

#### Lab Sample ID: 590-18671-2 Matrix: Solid

Lab Sample ID: 590-18671-3

Percent Solids: 87.9

	Batch	Batch	Dura	Dil	Initial Amount	Final	Batch	Prepared	A	Lab
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.13 g	2 mL	38178	09/22/22 09:14	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38179	09/22/22 12:28	NMI	EET SPK

### Client Sample ID: SVE-Soil-Sept21-33Pre3 Date Collected: 09/21/22 12:06 Date Received: 09/21/22 14:25

#### Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Moisture 38170 09/21/22 15:01 NMI EET SPK Analysis 1

### Client Sample ID: SVE-Soil-Sept21-33Pre3 Date Collected: 09/21/22 12:06 Date Received: 09/21/22 14:25

Lab Sample ID: 590-18671-3 Matrix: Solid Percent Solids: 89.5

Lab Sample ID: 590-18671-4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.05 g	2 mL	38178	09/22/22 09:14	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38179	09/22/22 12:44	NMI	EET SPK

#### Client Sample ID: SVE-Soil-Sept21-33Pre4 Date Collected: 09/21/22 12:09 Date Received: 09/21/22 14:25

_	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			38170	09/21/22 15:01	NMI	EET SPK

**Eurofins Spokane** 

Matrix: Solid

Final

Amount

Final

Amount

2 mL

1 mL

Batch

38170

Batch

38178

38179

Number

Number

Project/Site: Simplot Warden Client Sample ID: SVE-Soil-Sept21-33Pre4 Date Collected: 09/21/22 12:09 Date Received: 09/21/22 14:25 Prep Type Total/NA Prep Bott Total/NA Prep Bott Total/NA Prep Soil-Sept21-33DUP Dil Initial Prep Type Batch Prep Type Type Batch Prep Type Total/NA Prep Type Batch Prep Type Type Batch Prep Type Type Batch Prep Type Type Batch Prep Type Total/NA Prep Type Total/NA Prep Type Total/NA Prep Type Total/NA Prep Type Batch Prep Type Total/NA Prep Type Batch Prep Type Total/NA Prep Type Total/NA Prep Type Total/NA Prep Type Total/NA Prep Type Batch Prep Type Total/NA Prep Soil-Sept21-33DUP Dil Initial Prep Type Total/NA Prep Type Total/NA Prep Type Total/NA Prep Soil-Sept21-33DUP Dil Initial Prep Type Soil-Sept21-33DUP Dil Initial Prep Type Total/NA Prep Soil-Sept21-33DUP Dil Initial Prep Type Soil-Sept21-33DUP Dil Initial Prep Type Soil-Sept21-33DUP Dil Initial Prep Type Soil-Sept21-33DUP Dil Initial Prep Type Soil Prep Type Soil-Sept21-33DUP Dil Initial Prep Type Soil-Sept21-33DUP Dil Initial Prep Type Soil-Sept21-33DUP Dil Initial Prep Soil-Sept21-33DUP Dil Initial Prep Soil-Sept21-33DUP Dil Initial Prep Soil-Sept21-33DUP Dil Initial Prep Soil-Sept21-33DUP DI Initial Prep Type Soil-Sept21-33DUP DI Initi											
Project/Site: Simplot Warden         Client Sample ID: SVE-Soil-Sept21-33Pre4 Date Collected: 09/21/22 12:09 Date Received: 09/21/22 14:25       Lab Sample ID: 590-18671-4 Matrix: Solid Percent Solids: 88.5         Prep Type       Batch Prep Batch       Batch 8011       Run       Dil 1       Initial 1       Final 1       Batch 2       Prepared 09/22/22 03:01       Analyst NMI       Lab       Sample ID: SVE-Soil-Sept21-33DUP         Client Sample ID: SVE-Soil-Sept21-33DUP Date Collected: 09/21/22 12:00 Date Received: 09/21/22 14:25       Batch Method       Run Factor       Dil 1       Initial Amount 1       Final Matrix:       Batch 09/22/22 13:00       Analyst EET SPK       Lab       Sample ID: 590-18671-5 Matrix: Solid         Prep Type       Batch Method       Batch Moisture       Run 1       Dil Factor       Initial Amount 1       Final Amount 38170       Batch 09/21/22 15:01       Analyst Matrix: Solid D9/21/22 15:01       Lab       Sample ID: 590-18671-5 Matrix: Solid D9/21/22 12:00         Client Sample ID: SVE-Soil-Sept21-33DUP Date Collected: 09/21/22 14:25       Batch Moisture       Run 1       Final Factor       Batch Mount 10:33 g       Final 1       Batch Prepared 09/22/22 09:14       Analyst Matrix: Solid 09/22/22 09:14       Lab         Prep Type       Batch Prep Type       Batch NMI       Batch EET SPK       Dil 1       Initial 1       Final 1       Batch 1 <th< th=""></th<>											
Project/Site: Simplot Warden Client Sample ID: SVE-Soil-Sept21-33Pre4 Date Collected: 09/21/22 12:09 Date Received: 09/21/22 14:25  Prep Type Batch Prep 8011 Batch Prep 8011 Batch Prep 8011 Batch Prep 8011 Batch Batc											
Project/Site: Simplot Warden         Client Sample ID: SVE-Soil-Sept21-33Pre4 Date Collected: 09/21/22 12:09       Lab Sample ID: 590-18671-4 Matrix: Solid Percent Solids: 88.5         Prep Type       Batch       Batch       Run       Dil 1       Initial 10.72 g       Amount 10.72 g       Batch       Prepared 09/22/22 09:14       Analyst       Lab       Sample ID: SVE-Soil-Sept21-33DUP         Client Sample ID: SVE-Soil-Sept21-33DUP Date Collected: 09/21/22 14:25       1       1       1       1       Lab       Sample ID: S90-18671-5 Matrix: Solid         Prep Type       Batch Moisture       Run       Factor       Amount 1       Amount 1       Mumber 2       or Analyzed 09/22/22 09:14       Analyst EET SPK         Client Sample ID: SVE-Soil-Sept21-33DUP Date Collected: 09/21/22 14:25       Lab       Sample ID: S90-18671-5 Matrix: Solid         Prep Type       Type       Method Moisture       Run       Factor 1       Amount 1       Amount 38170       Or Analyzed 09/21/22 15:01       Analyst Matrix: Solid         Date Collected: 09/21/22 12:00       Method Moisture       Run       Factor 1       Amount 1       Sample ID: S90-18671-5 Matrix: Solid       Matrix: Solid         Date Received: 09/21/22 12:01       Method Moisture       Run       Factor 1       Amount 1       Sample ID: S90-18671-5 Matrix: Solid       Eat SPK<											
Project/Site: Simplot Warden Client Sample ID: SVE-Soil-Sept21-33Pre4 Date Collected: 09/21/22 12:09 Date Received: 09/21/22 14:25 Prep Type       Batch       Batch       Run       Factor       Amount       Amount       Amount         Total/NA       Prep       8011       1       1       1       1       Amount       A         Client Sample ID: SVE-Soil-Sept21-33DUP       Date Collected: 09/21/22 12:00       Date Received: 09/21/22 14:25       Initial       Amount       A         Prep Type       Type       Method       Run       Factor       Amount       A         Date Collected: 09/21/22 12:00       Date Received: 09/21/22 14:25       Initial       Amount       A         Client Sample ID: SVE-Soil-Sept21-33DUP       Date Collected: 09/21/22 12:00       Date Received: 09/21/22 14:25       Initial         Prep Type       Type       Method       Run       Factor       Amount       A         Date Received: 09/21/22 14:25       Initial       Amount       A       A       Amount       A         Client Sample ID: Trip Blank       Batch       Batch       Run       Factor       Amount       A         Client Sample ID: Trip Blank       Date Collected: 09/21/22 00:00       Date Received: 09/21/22 14:25       Initial       Amount       A											
Project/Site: Simplot Warden Client Sample ID: SVE-Soil-Sept21-33Pre4 Date Collected: 09/21/22 12:09 Batch Batch Batch Total/NA Prep Type Method Analysis 8011 Total/NA Analysis 8011 T											
Project/Site: Simplot Warden Client Sample ID: SVE-Soil-Sept21-33Pre4 Date Collected: 09/21/22 12:09 Batch Batch Prep Type Method Run Pactor 10.72 g Total/NA Prep 8011 Total/NA Analysis 8011 Di Imitial Amount 10.72 g Total/NA Analysis 8011 Di SVE-Soil-Sept21-33DUP Date Received: 09/21/22 14:25 Lab Sample ID: SVE-Soil-Sept21-33DUP Date Received: 09/21/22 14:25 Client Sample ID: SVE-Soil-Sept21-33DUP Total/NA Analysis Moisture Total/NA Analysis Moisture Total/NA Analysis 8011 Di Imitial Amount Amount Amount Amount Amount 2007(21/22 15:01 Date Received: 09/21/22 14:25 Client Sample ID: SVE-Soil-Sept21-33DUP Date Collected: 09/21/22 12:00 Date Received: 09/21/22 14:25 Client Sample ID: SVE-Soil-Sept21-33DUP Total/NA Analysis 8011 Di Imitial Amount Amount Amount Amount Amount Amount 2007(22/22 09:14 NMI EET SPK Client Sample ID: SVE-Soil-Sept21-33DUP Date Collected: 09/21/22 14:25 Client Sample ID: SVE-Soil-Sept21-33DUP Date Received: 09/21/22 14:25 Client Sample ID: SVE-Soil-Sept21-33DUP Date Collected: 09/21/22 14:25 Client Sample ID: SVE-Soil-Sept21-33DUP Total/NA Analysis 8011 Di Imitial Amount 200 Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:25 Client Sample ID: Trip Blank Date Received: 09/21/22 14:											
Batch       Batch       Batch       Batch       Prep Type       Method       Run       Final       Amount       Final       Batch       Prepared       Og/22/22 09:14       Matrix: Solid         Client Sample ID: SVE-Soil-Sept21-33DVP       Method       Run       Factor       Amount       2mL       38178       09/22/22 09:14       NMI       EET SPK         Client Sample ID: SVE-Soil-Sept21-33DUP       1       1mL       38178       09/22/22 13:00       NMI       EET SPK         Client Sample ID: SVE-Soil-Sept21-33DUP       Lab Sample ID: 590-18671-5       Matrix: Solid         Date Received: 09/21/22 14:25       Method       Run       Final       Amount       Amount       Mumber       or Analyzed       Analyst       Lab         Prep Type       Type       Method       Run       Factor       Amount       Amount       Mumber       or Analyzed       Analyst       Lab         Date Collected: 09/21/22 14:25       Method       Run       Factor       Amount       Amount       Mumber       or Analyzed       Analyst       Lab         Date Collected: 09/21/22 14:25       Method       Run       Factor       Amount       Mumber       or Analyzed       Analyst       Lab         Prep Type       Type											
roject/Site: Simplot Warden ilient Sample ID: SVE-Soil-Sept21-33Pre4 ate Collected: 09/21/22 12:29 Batch Batch Prep Type Both Total/NA Prep Both Total/NA Analysis 8011 DI 1 IntLial Final Analysis Batch Prepared Prep Type Batch Batch Prep Source Soil-Sept21-33DUP ate Received: 09/21/22 14:25 Batch Prep Type Batch Batch Moisture DI 1 IntLial Final Batch Prepared Or Analyzed Analyst Lab Batch Prep Type Batch Batch Moisture DI 1 IntLial Analysis Batch Prepared Or Analyzed Analyst Lab Prep Type Batch Batch Moisture DI 1 IntLial Analysis Batch Prepared Or Analyzed Analyst Lab EET SPK Lab Sample ID: 590-18671-5 Matrix: Solid Precent Solids: 89.8 Prep Type Batch Batch Prepared Moisture DI 1 IntLial Analysis Batch Prepared Moisture DI 1 IntLial Analysis DI 1 IntLial Analysis Batch Prepared Satch O9/21/22 14:25 Prep Type Batch Batch Prep Both Batch Prepared Moisture DI 1 IntLial Analysis DI 1 IntLial Analysis Batch Prepared O9/22/22 09:14 NMI EET SPK Lab Sample ID: 590-18671-5 Matrix: Solid Percent Solids: 89.8 Prep Type Batch Batch Prep Both Batch Prepared O9/22/22 09:14 NMI EET SPK Lab Sample ID: 590-18671-6 Matrix: Solid Analysis Both I IntLial Analysis Batch Prepared O9/22/22 13:16 NMI EET SPK EET SPK Lab Sample ID: 590-18671-6 Matrix: Solid Analysis Both I IntLial Analysis Batch Prepared O9/22/22 09:14 NMI EET SPK Lab Sample ID: 590-18671-6 Matrix: Solid Analysis Batch Prepared Namy I IntLial Analysis Batch Prepared Analyst Lab Sample ID: 590-18671-6 Matrix: Solid Analysis Batch Prepared ID: 590-18671-6 Matrix: Solid Analysis Batch Prepared Number Or Analyzed Analyst Lab Matrix: Solid Analysis Bat											
Project/Site: Simplet Warden         Client Sample ID: SVE-Soil-Sept21-33Pre4 Date Collected: 09/21/22 12:20       Lab Sample ID: 590-18671-4 Matrix: Solid Percent Solids: 88.5         Prep Type       Type       Method       Run       Factor       Initial Amount       Final 10.72 g 1 mL       Batch       Prep 8011       Initial 1 mL       Final 1 mL       Eatch       Prepared 09/22/22 09:14       Analyzet       Analyzet       Lab         Client Sample ID: SVE-Soil-Sept21-33DUP Date Collected: 09/21/22 14:25       Starth       Final Method       Final Method       Final Method       Batch       Prepared 09/22/22 09:14       Analyzet NMI       Analyst EET SPK         Client Sample ID: SVE-Soil-Sept21-33DUP Total/NA       Batch       Run       Factor 1       Amount 1       Amount 1       Amount 38170       Mumber or Analyzed 09/21/22 15:01       Analyst Multi       Lab         Client Sample ID: SVE-Soil-Sept21-33DUP Total/NA       Starth       Batch       Run       Factor 1       Amount 1       Amount 2       Mumber 07/22/22 14:25       Analyst Matrix: Solid         Prep Type       Type       Method       Run       Factor 1       Amount 1       Amount 1       Amount 2       Num											
					Anount						
Project/Site: Simplot Warden         Client Sample ID: SVE-Soil-Sept21-33Pre4         Date Collected: 09/21/22 12:09         Date Received: 09/21/22 14:25         Prep Type       Type       Method       Run       Factor       Ar         Total/NA       Prep       8011       1       1       1         Total/NA       Prep       8011       1       1       1         Client Sample ID: SVE-Soil-Sept21-33DUP         Date Collected: 09/21/22 12:00         Date Received: 09/21/22 14:25         Prep Type       Type       Method       Run       Factor       Ar         Prep Type       Type       Method       Run       Factor       Ar         Older Collected: 09/21/22 14:25       Method       Run       Factor       Ar         Client Sample ID: SVE-Soil-Sept21-33DUP         Date Collected: 09/21/22 14:25         Prep Type       Type       Method       Run       Factor       Ar         Total/NA       Prep       8011       1       1       1         Client Sample ID: Trip Blank       Batch       Batch       Batch       Batch       Batch       Muthod <t< td=""><td></td><td></td><td></td><td>ah Samplo</td><td>ID: 500</td><td>19671</td></t<>							ah Samplo	ID: 500	19671		
	•		21-3300	Г				an Sample			
Date Receive	a: 09/21/22 1	4:25						P	ercent 5	01105: 85	
		Batch		Dil	Initial	Final	Batch	Prepared			
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Ргер Туре			Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
	Туре	Method	Run	Factor							
Project/Site: Simplot Warden         Client Sample ID: SVE-Soil-Sept21-33Pre4 Date Collected: 09/21/22 12:20 Date Received: 09/21/22 14:25       Lab Sample ID: 590-18671-4 Matrix: Solid Percent Solids: 88.5         Match Origon Collected: 09/21/22 14:25       Lab Sample ID: 590-18671-4 Matrix: Solid Percent Solids: 88.5         Prep Type       Type Method Total/NA       Analysic Method       Run Factor       Satch Mount 10.72 g 1 mL       Batch Sat76       Prepared O9/22/22 09:14       Analysic Matrix: Solid         Client Sample ID: SVE-Soil-Sept21-33DUP Date Collected: 09/21/22 12:00       Lab Sample ID: 590-18671-5 Matrix: Solid         Prep Type       Type Method Moisture       Method Moisture       Initial Amount 1       Final Amount Mount       Batch       Prepared O9/21/22 12:00       NMIT EET SPK         Client Sample ID: SVE-Soil-Sept21-33DUP Date Collected: 09/21/22 12:00       Lab Sample ID: 590-18671-5 Matrix: Solid         Date Collected: 09/21/22 12:20       Batch       Batch Method       Num       Final Amount 10:33 g 1 mL       Batch       Prepared O9/22/22 09:14       Analyst       Lab         Client Sample ID: Type Me											
Total/NA Total/NA	<b>Type</b> Prep Analysis	Method 8011 8011	Run		10.33 g	2 mL	38178 38179	09/22/22 09:14 09/22/22 13:16	NMI NMI	EET SPE	
Total/NA Total/NA Client Sam	Type Prep Analysis	Method 8011 8011 Blank	Run		10.33 g	2 mL	38178 38179	09/22/22 09:14 09/22/22 13:16	NMI NMI ID: 590	EET SPF EET SPF -18671	
Total/NA Total/NA Client Sam Date Collecte	Type Prep Analysis ple ID: Trip d: 09/21/22 0	Method 8011 8011 9 Blank 0:00	Run		10.33 g	2 mL	38178 38179	09/22/22 09:14 09/22/22 13:16	NMI NMI ID: 590	EET SPR EET SPR -18671	
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1 mL

1

1 mL

38179

09/22/22 13:32 NMI

#### Laboratory References:

Analysis

Total/NA

Client: HDR Inc

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

8011

Eurofins Spokane

EET SPK

Job ID: 590-18671-1

## 2 3 4 5 6 7

8

### Laboratory: Eurofins Spokane

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

Authority	Pr	ogram	ix Analyte Percent Moisture	
Washington	n State owing analytes are included in this report, but the laboratory is not certified by ncy does not offer certification. s Method Prep Method Ana e Solid Pereception Pere	C569	01-06-23	
Washington     State     C569     01-06-23       The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analyte the agency does not offer certification.     Analysis Method     Prep Method     Matrix     Analyte       Moisture     Solid     Percent Moisture	This list may include analytes for which			
0,	•		for certified by the governing autionty.	
the agency does not o	offer certification.			
the agency does not c Analysis Method	offer certification.	Matrix	Analyte	

### **Method Summary**

### Client: HDR Inc Project/Site: Simplot Warden

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

#### **Protocol References:**

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

Latornio opona io

### 11922 East 1st Ave

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

### **Chain of Custody Record**

43	eurofins	Emireconn
		Centroman

Environment Testing America

Client Information	Sampler Jered Newcomb	JAN			PM: inglor	n Ra	ndee	2 F	_				Carrie	r Traci	king N	ło(s):			ľ	COC No:		٦
Client Contact: Jered Newcomb	Phone: 509-899-4371			E-M	laik:				eurofir	elle r	om		State WA	of Orig	gin:					Page: Page 1 of 1		
Company:	303-093-4371		PWSID:			.7.1111	gion	wet.i	******											Job #:		-
HDR Inc Address:	Due Date Requeste	nd								Inaly	/sis	Req	ues	ted			-			Preservation Cod	es	-
835 N Post St. Ste. 101 City:	TAT Requested (da	welt			- 1															A HCL	M Hexane	
Spokane		24 ho	ur																	B NaOH C Zn Acetate	N None O AsNaO2	
State, Zip: WA, 99202	Compliance Project	:t: ∆ Yes	Δ No		-															D Nilric Acid E NaHSO4	P Na2O4S Q Na2SO3	
Phone: 509-899-4371	PO #: Purchase Order	Requester																		F MeOH G Amchlor	R Na2S2O3 S H2SO4	
Email:	WO #:	Requested			or N-	-				ł										H Ascorbic Acid I Ice	T TSP Dodecehydrate U Acetone	
jered.newcomb@hdrinc.com Project Name:	Project #:				- š	OF K													ners	J DI Water K EDTA	V MCAA W pH 4-5	
Simplot Warden Site:	59002373 ssow#:					Yes													ž	L EDA Other	Z other (specily)	
Warden WA	330W#.				Sam	20				ł									oto	Uniter		
			Sample	(Watrix (W=water,	Filtered Sample (Yes	MS/MSD													mber			
		Sample	Type (C=comp,	S=solid, O=waste/oil,	d Fill	E	89												Num!			
Sample Identification	Sample Date	Time	G=grab)	BT=Tisave, A=Air)	Field	Par	8011												Total	Special In	structions/Note:	
		$\geq$	Preserva	ation Code:		X													Х			
SVE-Soil-Sept_) -33Pre1	9/ 2/ /2022	1202	G	S	_N	N	X												59)77			_
SVE-Soil-Sept_) -33Pre2	9/ ఎ) /2022	1205	G	s	N	Ν	х															Ĭ
SVE-Soil-Sept	9/2 /2022	1206	G	S	Ν	Ν	х								1							
SVE-Soil-Sept2 -33Pre4	9/) /2022	1209	G	s	N	N	х								111	1111	linna		I Den verse	Lifebt mars same		
SVE-Soil-Sept 2 -33DUP	9/) /2022	1200	G	s	N	N	x														#	-
Trip Blank		μ <u>α,υ</u> =		s	N	N	x	-	_													-
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Possible Hazard Identification			1			Sam	<u> </u>	•			may					-	es ar			ed longer than 1	month)	
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$\Delta$ Yes $\Delta$ No				Page 13	3 of	14	COOISL	rempt	កងលេខដុ	ајба		ar ræl	10(85)			7	ł	¢,	ζ	.52 Ji	1006 <sub>9/22/202</sub>	2

### Login Sample Receipt Checklist

### Client: HDR Inc

### Login Number: 18671 List Number: 1 Creator: Fettig, Riley

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

Job Number: 590-18671-1

List Source: Eurofins Spokane

# 🛟 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

### Laboratory Job ID: 590-18719-1

Client Project/Site: Simplot Warden

### For:

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

Attn: Jered Newcomb

Candre Arrington

Authorized for release by: 9/26/2022 2:33:41 PM

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

LINKS Review your project results through EOL Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

This report has been electronically signed and authorized by the signatory. Electronic

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

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QC Sample Results	8
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Receipt Checklists	14

#### Job ID: 590-18719-1

#### Laboratory: Eurofins Spokane

#### Narrative

#### Receipt

The samples were received on 9/23/2022 2:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° 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.

### Sample Summary

Client: HDR Inc Project/Site: Simplot Warden

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18719-1	SVE-Soil-Sept23-34Pre1	Solid	09/23/22 12:18	09/23/22 14:05
590-18719-2	SVE-Soil-Sept23-34Pre2	Solid	09/23/22 12:20	09/23/22 14:05
590-18719-3	SVE-Soil-Sept23-34Pre3	Solid	09/23/22 12:22	09/23/22 14:05
590-18719-4	SVE-Soil-Sept23-34Pre4	Solid	09/23/22 12:24	09/23/22 14:05
590-18719-5	Trip Blank	Solid	09/23/22 00:00	09/23/22 14:05

### Client: HDR Inc Project/Site: Simplot Warden

Job ID: 590-18719-1

Glossary		2
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	4
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	<b>J</b>
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

### **Client Sample Results**

Job ID: 590-18719-1

									0
Client Sample ID: SVE-Soil-S	ept23-34Pre	<b>)</b> 1					Lab Sam	ple ID: 590-1	
Date Collected: 09/23/22 12:18								Matr	ix: Solid
Date Received: 09/23/22 14:05									
General Chemistry									
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.01	0.01				09/24/22 11:40	1
Percent Solids	91.0		0.01	0.01	%			09/24/22 11:40	1
Client Sample ID: SVE-Soil-S	ept23-34Pre	e1					Lab Sam	ple ID: 590-1	8719-1
Date Collected: 09/23/22 12:18								Matr	ix: Solid
Date Received: 09/23/22 14:05							ds: 91.0		
- 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	¢	09/24/22 10:40	09/24/22 12:59	1
Client Sample ID: SVE-Soil-S	ent23-34Pre	22					Lab Sam	ple ID: 590-1	8719-2
Date Collected: 09/23/22 12:20		_						-	ix: Solid
Date Received: 09/23/22 12:20								Wati	
General Chemistry	Popult	Qualifier	RL	ы	Unit	D	Bronorod	Analyzad	Dil Fac
Analyte Percent Moisture	9.5	Quaimer	0.01	0.01	01111 %	<u> </u>	Prepared	Analyzed 09/24/22 11:40	1
Percent Solids	9.5		0.01	0.01				09/24/22 11:40	1
	50.5		0.01	0.01	,,,				
Client Sample ID: SVE-Soil-S	ept23-34Pre	2					Lab Sam	ple ID: 590-1	8719-2
Date Collected: 09/23/22 12:20									
Date Collected. 05/25/22 12.20								Matr	ix: Solid
Date Received: 09/23/22 14:05								Matr Percent Soli	
Date Received: 09/23/22 14:05									
Date Received: 09/23/22 14:05 Method: 8011 - EDB	Deculé	Qualifiar		MDI	11-14		Dremoved	Percent Soli	ds: 90.5
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte		Qualifier	RL		Unit ug/Kg	<u>D</u>	Prepared	Percent Soli Analyzed	ds: 90.5
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	ND		<b>RL</b> 0.055		Unit ug/Kg	<mark>D</mark>	09/24/22 10:40	Analyzed 09/24/22 13:48	<b>Dil Fac</b>
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	ND						09/24/22 10:40	Percent Soli Analyzed	<b>Dil Fac</b>
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22	ND						09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1	Dil Fac
Date Received: 09/23/22 14:05  Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22	ND						09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1	Dil Fac
Date Received: 09/23/22 14:05  Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22	ND						09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1	Dil Fac
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05	Gept23-34Pre			0.038			09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1	Dil Fac 1 8719-3 ix: Solid
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05 General Chemistry	Gept23-34Pre	23	0.055	0.038	ug/Kg	☆	09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1 Matri	Dil Fac 1 8719-3 ix: Solid
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05 General Chemistry Analyte	Sept23-34Pre	23	0.055 RL	0.038	Unit %	☆	09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1 Matri Analyzed	Dil Fac 1 8719-3 ix: Solid Dil Fac
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05 General Chemistry Analyte Percent Moisture Percent Solids	Result 10.3 89.7	Qualifier	0.055 <b>RL</b> 0.01	0.038	Unit %	☆	09/24/22 10:40 Lab Sam Prepared	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1 Matri Analyzed 09/24/22 11:40 09/24/22 11:40	Dil Fac 1 8719-3 ix: Solid Dil Fac 1
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil-S	Result 10.3 89.7	Qualifier	0.055 <b>RL</b> 0.01	0.038	Unit %	☆	09/24/22 10:40 Lab Sam Prepared	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1 Matri Analyzed 09/24/22 11:40 09/24/22 11:40 ple ID: 590-1	Dil Fac 1 8719-3 ix: Solid Dil Fac 1 8719-3
Date Received: 09/23/22 14:05  Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05  General Chemistry Analyte Percent Moisture Percent Solids  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22	Result 10.3 89.7	Qualifier	0.055 <b>RL</b> 0.01	0.038	Unit %	☆	09/24/22 10:40 Lab Sam Prepared	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1 Matri Analyzed 09/24/22 11:40 09/24/22 11:40 ple ID: 590-1	Dil Fac 1 8719-3 ix: Solid 1 1 8719-3 ix: Solid
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Received: 09/23/22 14:05	Result 10.3 89.7	Qualifier	0.055 <b>RL</b> 0.01	0.038	Unit %	☆	09/24/22 10:40 Lab Sam Prepared	Percent Soli <u>Analyzed</u> 09/24/22 13:48 ple ID: 590-1 Matri <u>Analyzed</u> 09/24/22 11:40 09/24/22 11:40 ple ID: 590-1 Matri	Dil Fac 1 8719-3 ix: Solid Dil Fac 1 8719-3 ix: Solid
Date Received: 09/23/22 14:05  Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05  General Chemistry Analyte Percent Moisture Percent Solids  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Received: 09/23/22 14:05  Method: 8011 - EDB	Result 10.3 89.7 6ept23-34Pre	Qualifier	0.055 <b>RL</b> 0.01 0.01 0.01	0.038 <b>RL</b> 0.01 0.01	Unit % %	<u></u> <u>D</u>	09/24/22 10:40 Lab Sam Prepared Lab Sam	Percent Soli <u>Analyzed</u> 09/24/22 13:48 ple ID: 590-1 Matri 09/24/22 11:40 09/24/22 11:40 09/24/22 11:40 ple ID: 590-1 Matri Percent Soli	Dil Fac 1 8719-3 ix: Solid Dil Fac 1 8719-3 ix: Solid ix: Solid ids: 89.7
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 12:22	Result 10.3 89.7 6ept23-34Pre	Qualifier	0.055 <b>RL</b> 0.01	0.038 RL 0.01 0.01 MDL	Unit %	☆	09/24/22 10:40 Lab Sam Prepared	Percent Soli <u>Analyzed</u> 09/24/22 13:48 ple ID: 590-1 Matri <u>Analyzed</u> 09/24/22 11:40 09/24/22 11:40 09/24/22 11:40 ple ID: 590-1 Matri	Dil Fac 1 8719-3 ix: Solid 0 8719-3 ix: Solid ix: Solid ids: 89.7 Dil Fac
Date Received: 09/23/22 14:05  Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05  General Chemistry Analyte Percent Moisture Percent Solids  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05  Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	Result           10.3           89.7           Sept23-34Pre	Qualifier	0.055	0.038 RL 0.01 0.01 MDL	Unit % %	<u> </u>	09/24/22 10:40  Lab Sam  Prepared  Prepared  09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1 Matri 09/24/22 11:40 09/24/22 11:40 09/24/22 11:40 ple ID: 590-1 Matri Percent Soli Analyzed 09/24/22 14:05	Dil Fac 1 8719-3 ix: Solid Dil Fac 1 8719-3 ix: Solid 1 8719-3 ix: Solid ds: 89.7 Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Date Received: 09/23/22 14:05  Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05  General Chemistry Analyte Percent Moisture Percent Solids  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05  Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)  Client Sample ID: SVE-Soil-S	Result           10.3           89.7           Sept23-34Pre	Qualifier	0.055	0.038 RL 0.01 0.01 MDL	Unit % %	<u> </u>	09/24/22 10:40  Lab Sam  Prepared  Prepared  09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1 Matri 09/24/22 11:40 09/24/22 11:40 09/24/22 11:40 ple ID: 590-1 Matri Percent Soli 09/24/22 14:05 ple ID: 590-1	Dil Fac 1 8719-3 ix: Solid Dil Fac 1 8719-3 ix: Solid ix: Solid ix: Solid ix: Solid ix: Solid 365: 89.7 Dil Fac 1 8719-4
Date Received: 09/23/22 14:05  Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05  General Chemistry Analyte Percent Moisture Percent Solids  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Collected: 09/23/22 12:22 Date Received: 09/23/22 12:24	Result           10.3           89.7           Sept23-34Pre	Qualifier	0.055	0.038 RL 0.01 0.01 MDL	Unit % %	<u> </u>	09/24/22 10:40  Lab Sam  Prepared  Prepared  09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1 Matri 09/24/22 11:40 09/24/22 11:40 09/24/22 11:40 ple ID: 590-1 Matri Percent Soli 09/24/22 14:05 ple ID: 590-1	Dil Fac 1 8719-3 ix: Solid Dil Fac 1 8719-3 ix: Solid ix: Solid ix: Solid ix: Solid ix: Solid 365: 89.7 Dil Fac 1 8719-4
Date Received: 09/23/22 14:05  Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05  General Chemistry Analyte Percent Moisture Percent Solids  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Collected: 09/23/22 12:22 Date Collected: 09/23/22 12:24	Result           10.3           89.7           Sept23-34Pre	Qualifier	0.055	0.038 RL 0.01 0.01 MDL	Unit % %	<u> </u>	09/24/22 10:40  Lab Sam  Prepared  Prepared  09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1 Matri 09/24/22 11:40 09/24/22 11:40 09/24/22 11:40 ple ID: 590-1 Matri Percent Soli 09/24/22 14:05 ple ID: 590-1	Dil Fac 1 8719-3 ix: Solid Dil Fac 1 8719-3 ix: Solid ix: Solid ix: Solid ix: Solid ix: Solid ix: Solid 3719-3 ix: Solid 8719-3 ix: Solid 1 8719-3 ix: Solid 1 8719-3 ix: Solid 1 8719-3 ix: Solid
Date Received: 09/23/22 14:05 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB) Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05 General Chemistry Analyte Percent Moisture Percent Solids Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Collected: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Collected: 09/23/22 12:22 Date Collected: 09/23/22 12:22 Date Received: 09/23/22 12:24 Date Collected: 09/23/22 12:24 Date Co	Result           10.3           89.7           Sept23-34Pre	Qualifier	0.055	0.038 RL 0.01 0.01 MDL	Unit % %	<u> </u>	09/24/22 10:40  Lab Sam  Prepared  Prepared  09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1 Matri 09/24/22 11:40 09/24/22 11:40 09/24/22 11:40 ple ID: 590-1 Matri Percent Soli 09/24/22 14:05 ple ID: 590-1	Dil Fac 1 8719-3 ix: Solid Dil Fac 1 8719-3 ix: Solid ds: 89.7 Dil Fac 1 8719-4
Date Received: 09/23/22 14:05  Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 14:05  General Chemistry Analyte Percent Moisture Percent Solids  Client Sample ID: SVE-Soil-S Date Collected: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Received: 09/23/22 12:22 Date Collected: 09/23/22 12:22 Date Collected: 09/23/22 12:24 Date Collected: 09/23/22 12:24 Date Received: 09/23/22 12:24 Date Received: 09/23/22 14:05	Result           10.3           89.7           Gept23-34Pro           6ept23-34Pro           Result           10.3           89.7           Gept23-34Pro           Gept23-34Pro           Sept23-34Pro           Sept23-34Pro	Qualifier	0.055	0.038 <b>RL</b> 0.01 0.01 <b>MDL</b> 0.035	Unit % %	<u> </u>	09/24/22 10:40  Lab Sam  Prepared  Prepared  09/24/22 10:40	Percent Soli Analyzed 09/24/22 13:48 ple ID: 590-1 Matri 09/24/22 11:40 09/24/22 11:40 09/24/22 11:40 ple ID: 590-1 Matri Percent Soli 09/24/22 14:05 ple ID: 590-1	Dil Fac 1 8719-3 ix: Solid Dil Fac 1 8719-3 ix: Solid 1 8719-3 ix: Solid ds: 89.7 Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1

### **Client Sample Results**

	Client	Sample F	lesults	\$				
		·					Job ID: 590-	-18719-1
23-34Pre	<b>}4</b>					Lab Sam <sup>,</sup>	ple ID: 590-1	18719-4
							Matr	rix: Solid
Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
89.2		0.01	0.01	%			09/24/22 11:40	1
23-34Pr	<b>∂4</b>					Lab Sam	ple ID: 590-'	18719-4
							•	rix: Solid
							Percent Sol	
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND		0.052	0.036	ug/Kg	<u>ф</u>	09/24/22 10:40	09/24/22 14:21	1
						Lab Sam	ple ID: 590-1	18719-5
						-		rix: Solid
Result	Qualifier	RI	МПІ	Unit	п	Prepared	Apalyzed	Dil Fac
ND	Quanner	0.045	0.032			09/24/22 10:40	09/24/22 14:38	Dirac
	Result 89.2 23-34Pre Result ND	Result       Qualifier         89.2       2         23-34Pre4       2         Result       Qualifier         ND       2         Result       Qualifier         ND       2	Result Qualifier       RL         89.2       0.01         23-34Pre4       0.01         23-34Pre4       0.052         Result Qualifier       RL         ND       0.052	Result       Qualifier       RL       RL         89.2       0.01       0.01         23-34Pre4	Result       Qualifier       RL       RL       Unit         89.2       0.01       0.01       %         23-34Pre4         Result       Qualifier       RL       MDL       Unit         ND       0.052       0.036       ug/Kg         Result       Qualifier       RL       MDL       Unit	Result       Qualifier       RL       RL       Unit       D         89.2       0.01       0.01       %       D         23-34Pre4       23-34Pre4       23-34Pre4       23-34Pre4       23-34Pre4         Result       Qualifier       RL       MDL       Unit       D         ND       0.052       0.036       ug/Kg       2         Result       Qualifier       RL       MDL       Unit       D	Result       Qualifier       RL       RL       Unit       D       Prepared         89.2       0.01       0.01       %       D       Prepared         23-34Pre4       Lab Samp         23-34Pre4       Lab Samp         Result       Qualifier       RL       MDL       Unit       D       Prepared         ND       0.052       0.036       ug/Kg       D       Prepared         Lab Samp         Result       Qualifier       RL       MDL       Unit       D       Prepared         Result       Qualifier       RL       MDL       Unit       D       Prepared	23-34Pre4       Lab Sample ID: 590-1         Result       Qualifier       RL       ND         89.2       0.01       0.01       Matr         09/24/22 11:40       09/24/22 11:40       09/24/22 11:40         23-34Pre4       Lab Sample ID: 590-1         Result       Qualifier       RL       MDL         ND       0.052       0.036       Prepared       Analyzed         ND       0.052       0.036       9/24/22 10:40       09/24/22 14:21         Lab Sample ID: 590-1       Matr         ND       0.052       0.036       9/24/22 10:40       09/24/22 14:21         Lab Sample ID: 590-1       Matr         Matr       MDL       Unit       D       Prepared       Analyzed         Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed

#### Method: 8011 - EDB

Matrix: Solid

Lab Sample ID: MB 590-38222/2-A												Client Sa	mple ID: N	lethod	Blank
Matrix: Solid													Prep Ty	vpe: To	tal/NA
Analysis Batch: 38225													Prep	Batch:	38222
		ΜВ	MB												
Analyte	Re	esult	Qualifier		RL		MDL	Unit		D	Pr	repared	Analyze	d	Dil Fac
1,2-Dibromoethane (EDB)		ND			0.050	(	0.035	ug/Kg		(	09/24	4/22 10:40	09/24/22 1	2:26	
Lab Sample ID: LCS 590-38222/3-A										Cli	ent	Sample	ID: Lab Co	ntrol S	ample
Matrix: Solid													Prep Ty	pe: To	tal/NA
Analysis Batch: 38225													Prep	Batch:	38222
				Spike		LCS	LCS						%Rec		
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
1,2-Dibromoethane (EDB)				1.00		0.991			ug/Kg			99	60 - 140		
Lab Sample ID: 590-18719-1 MS									С	lient	San	nple ID: S	SVE-Soil-So	ept23-3	4Pre1
Matrix: Solid												· · · ·	Prep Ty	/pe: To	tal/NA
Analysis Batch: 38225													Prep	Batch:	38222
-	Sample	Sam	ple	Spike		MS	MS						%Rec		
Analyte	Result	Qual	ifier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
1,2-Dibromoethane (EDB)	ND			1.07		0.671			ug/Kg		¢	63	60 - 140		
Lab Sample ID: 590-18719-1 MSD									С	lient	San	nple ID: S	SVE-Soil-So	ept23-3	4Pre1
Matrix: Solid													Prep Ty		
Analysis Batch: 38225														Batch:	
-	Sample	Sam	ple	Spike		MSD	MSD						%Rec		RPD
Analyte	Result	Qual	ifier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
1,2-Dibromoethane (EDB)	ND			1.05		0.674			ug/Kg		¢	64	60 - 140	1	20
Method: Moisture - Percent Mo	oisture														
Lab Sample ID: 590-18719-1 DU									~	liont	Sam		SVE-Soil-So	n+22 2	ABred

Prep Type: Total/NA

Analysis Batch: 38226								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Moisture	9.0		8.5		%		 6	20
Percent Solids	91.0		91.5		%		0.5	20

Lab Sample ID: 590-18719-2 D Matrix: Solid Analysis Batch: 38226	U				С	lient Sample II	D: SVE-Soil-Sept23-3 Prep Type: To	
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Moisture	9.5		10.4		%		9	20
Percent Solids	90.5		89.6		%		1	20

Total/NA

Analysis

Moisture

Job ID: 590-18719-1

Client Samp	le ID: SVE-S	oil-Sept23-3	4Pre1					Lab Samp	ole ID: 59	90-18719-
Date Collected:	: 09/23/22 12:1	8							1	Matrix: Soli
Date Received:	09/23/22 14:0	5								
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Bron Type		Method	Run	Factor	Amount	Amount	Number	•	Analyst	Lab
Prep Type Total/NA	<b>Type</b> Analysis	Moisture	Kuii	1	Amount	Amount	38226	or Analyzed 09/24/22 11:40	Analyst NMI	EET SPK
	Analysis	MOISIUIE		I			36220	09/24/22 11.40	INIVII	LEI OFK
Client Samp	le ID: SVE-S	oil-Sept23-3	4Pre1					Lab Samp	ole ID: 59	90-18719-
Date Collected	: 09/23/22 12:1	8							1	Matrix: Sol
Date Received:	09/23/22 14:0	5							Percent	Solids: 91
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.44 g	2 mL	38222	09/24/22 10:40	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	2 mL	38225	09/24/22 12:59	NMI	EET SPK
	Analysis	0011			· · · · · ·	1 111	30223	03/24/22 12:33		LLISFR
lient Samp	le ID: SVE-S	oil-Sept23-3	4Pre2					Lab Samp	ole ID: 59	90-18719
Date Collected									I	Matrix: So
Date Received:	09/23/22 14:0	5								
-	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			38226	09/24/22 11:40	NMI	EET SPK
-										
lient Samp	IE ID: SVE-S	oil-Sept23-3	4Pre2					Lab Samp	DIE ID: 59	90-18/19
Date Collected	: 09/23/22 12:2	0							I	Matrix: Sol
Date Received:	09/23/22 14:0	5							Percent	Solids: 90
_	Detah	Datah		Dil	Initial	Final	Datah	Dremened		
Bron Tuno	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type			Bun	Factor	Amount	Amount	Number	or Analyzad	Analyst	Lab
Total/NIA	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	_ Lab
Total/NA Total/NA	Prep	8011	Run		10.08 g	2 mL	38222	09/24/22 10:40	NMI	EET SPK
Total/NA Total/NA			Run	Factor						
Total/NA	Prep Analysis	8011			10.08 g	2 mL	38222	09/24/22 10:40	NMI NMI	EET SPK EET SPK
Total/NA	Prep Analysis	8011 8011 Soil-Sept23-3			10.08 g	2 mL	38222	09/24/22 10:40 09/24/22 13:48	NMI NMI	EET SPK EET SPK 90-18719
Total/NA Client Samp Date Collected	Prep Analysis le ID: SVE-S : 09/23/22 12:2	8011 8011 60il-Sept23-3 2			10.08 g	2 mL	38222	09/24/22 10:40 09/24/22 13:48	NMI NMI	EET SPK EET SPK 90-18719
Total/NA Client Samp Date Collected	Prep Analysis le ID: SVE-S : 09/23/22 12:2 : 09/23/22 14:0	8011 8011 Soil-Sept23-3 2 5			10.08 g 1 mL	2 mL 1 mL	38222 38225	09/24/22 10:40 09/24/22 13:48 Lab Samp	NMI NMI	EET SPK EET SPK 90-18719
Total/NA Client Samp Date Collected Date Received:	Prep Analysis le ID: SVE-S : 09/23/22 12:2 : 09/23/22 14:0 Batch	8011 8011 60il-Sept23-3 2 5 Batch	4Pre3	1 Dil	10.08 g 1 mL	2 mL 1 mL	38222 38225 Batch	09/24/22 10:40 09/24/22 13:48 Lab Samp Prepared	NMI NMI	EET SPK EET SPK 90-18719 Matrix: So
Total/NA Client Samp ate Collected ate Received: Prep Type	Prep Analysis le ID: SVE-S : 09/23/22 12:2 : 09/23/22 14:0	8011 8011 Soil-Sept23-3 2 5		1	10.08 g 1 mL	2 mL 1 mL	38222 38225	09/24/22 10:40 09/24/22 13:48 Lab Samp	NMI NMI	EET SPK EET SPK 90-18719
Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA	Prep Analysis le ID: SVE-S : 09/23/22 12:2 : 09/23/22 14:0: : 09/23/23 14:0: : 09/23/23 14:0: : 09/23/23 14:0: : 09/23/22 14:0: : 09/23/23 14:0: : 09/23 14:0: :	8011 8011 Soil-Sept23-3 2 5 Batch Method Moisture	4Pre3	1 Dil	10.08 g 1 mL	2 mL 1 mL	38222 38225 Batch Number	09/24/22 10:40 09/24/22 13:48 Lab Samp Prepared or Analyzed 09/24/22 11:40	MMI Die ID: 59	EET SPK EET SPK 90-18719 Matrix: So <u>Lab</u> EET SPK
Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA Client Samp	Prep Analysis le ID: SVE-S : 09/23/22 12:2 : 09/23/22 14:0 : 09/23/25 14:0 : 09/25 1	Batch Method Boil-Sept23-3	4Pre3	1 Dil	10.08 g 1 mL	2 mL 1 mL	38222 38225 Batch Number	09/24/22 10:40 09/24/22 13:48 Lab Samp Prepared or Analyzed	Analyst NMI	EET SPK EET SPK 20-18719 Matrix: So - Lab EET SPK 20-18719
Total/NA Client Samp Date Collected: Date Received: Prep Type Total/NA Client Samp Date Collected:	Prep Analysis le ID: SVE-S : 09/23/22 12:2 09/23/22 14:0 09/23/22 14:0 Batch Type Analysis le ID: SVE-S : 09/23/22 12:2	8011           8011           Soil-Sept23-3           2           5           Batch           Method           Moisture           Soil-Sept23-3           2	4Pre3	1 Dil	10.08 g 1 mL	2 mL 1 mL	38222 38225 Batch Number	09/24/22 10:40 09/24/22 13:48 Lab Samp Prepared or Analyzed 09/24/22 11:40	Analyst NMI Analyst NMI Die ID: 59	EET SPK EET SPK 20-18719 Matrix: So - Lab EET SPK 20-18719 Matrix: So
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**Eurofins Spokane** 

EET SPK

38226

09/24/22 11:40

NMI

1

#### Client Sample ID: SVE-Soil-Sept23-34Pre4 Date Collected: 09/23/22 12:24

Date Received: 09/23/22 14:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.85 g	2 mL	38222	09/24/22 10:40	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38225	09/24/22 14:21	NMI	EET SPK

#### Client Sample ID: Trip Blank Date Collected: 09/23/22 00:00 Date Received: 09/23/22 14:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			11.00 g	2 mL	38222	09/24/22 10:40	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38225	09/24/22 14:38	NMI	EET SPK

#### Laboratory References:

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

Job ID: 590-18719-1

# Lab Sample ID: 590-18719-4

Lab Sample ID: 590-18719-5

Matrix: Solid Percent Solids: 89.2

Matrix: Solid

6

8

# Accreditation/Certification Summary

#### Laboratory: Eurofins Spokane

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

uthority	I	Program	Identification Number	Expiration Date 01-06-23	
/ashington		State	C569		
The following englytee	ollowing analytes are included in this report, but the laboratory is not certified ency does not offer certification.		ind by the governing outbority. This list me	u include enclutes for which	
the agency does not of	fer certification.	-		ly include analytes for whic	
the agency does not of Analysis Method	• •	Matrix	Analyte		
the agency does not of	fer certification.	-			

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

#### Protocol References:

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

Laionno oponano

#### 11922 East 1st Ave

#### Spokane WA 99206

# Chain of Custody Record

Phone (509) 924-9200 Phone (509) 924-9290																						
Client Information	Sampler Jered Newcomt	), JAN		La A	ib PM: rringtor	n, Ra	ande	еE					Carrie	r Trac	king N	o(s):			T	COC No:		2
Client Information Client Contact: Jered Newcomb	Phone: 509-899-4371			E.	Mail: andee.				eurof	insus	com		State WA	of Orig	gin:				ہ ۲	Page: Page 1 of 1		
Company: HDR Inc			PWSID:	<u></u>			gion				lysis	Dad								Job #:		- 3
Address.	Due Date Request	ed:					- 1			Alla	19515	Tet	Jues	Teu		T		2	F	Preservation Code:	2	
835 N Post St. Ste 101					_			l										:	- 2		A Hexane	
City: Spokane	TAT Requested (d	ays): 24 ho	ur															-	- (	C Zn Acetate (	None AsNaO2	5
State, Zip: WA, 99202	Compliance Project	ct: A Yes	A No																- 4 s		> Na2O4S Q Na2SO3 R Na2S2O3	6
Phone: 509-899-4371	PO #: Purchase Orde	r Requested	1		6														- 4	G Amchlor :	S H2SO4 T TSP Dodecahydrate	
Email: jered.newcomb@hdrinc.com	WO #:				<u>or No</u>	(0)												:		I Ice I J DI Water M	J Acetone / MCAA	7
Project Name: Simplot Warden	Project #: 59002373				Sample (Yes	s or No)												1			N pH 4-5 2 other (specify)	
Warden WA	SSOW#:					ISD (Yes														Other <sup>.</sup>		
Waldel WA			Sample Type	Watrix (W=water S=solid, D=waste/ol	Filtered S:	NSM mo	EDB											:	Total Number of			9
Sample Identification	Sample Date	Sample Time	G=grab)	BT=Tissue A=Air)	Course and a		8011												50 1	Special Inst	ructions/Note.	
		$\geq$	Preservatio	n Code	<u>*  X </u>	Хŀ	N.					1				an a			X			11
SVE-Soil-Sept)}-34Pre1	9/23/2022	1218	G	S	N	N	х															
SVE-Soil-Sept_2-3-34Pre2	91 2 } 12022	1226	G	S	Ν	N	х															12
SVE-Soil-Sept 23-34Pre3	91,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1202	G	S	N	Ν	х															
SVE-Soil-Sept)	9/2} /2022	1224	G	S	N	Ν	х											firm and				
Trip Blank		( (		S	N	N	x			_							1	F	1			
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								_												<u></u>		
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Possible Hazard Identification		ľ	L			Sam	<u> </u>			-	e maj	_					_			d longer than 1 r	-	]
│	son B	iown L	Radiological			L Spec			To Cl		Requi		D <i>ispo</i> ints.	sal B	y Lat		<u> </u>	,A/	rchiv	ve For	_ Months	-
Empty Kit Relinquished by		Date:				ne:					-			Metho	od of S	hipme	ent:					-
Relinquished by: Jered Newcomb	Date/Time: 9/23/22	1	VAT CO	mpany			Receiv	ved by	. ,							•				111	Company EETJP0	-
Relinguished by:	<u> イノン3/ス。</u> Date/Time:		105 00	трапу			Receiv	ved by	2	Ľ	4	Ą	Ż	<u>/</u>		이/ Date/T	Time: <u>73/7</u> Time:	7 <b>)</b> -			Company	
Relinquished by:	Date/Time:			mpany			Recei	ved by								Date/1	Time:				Company	-
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Custody Seals Intact: Custody Seal No.			Pa	age 1	<u>3 of </u>	14	Coole	r Tern¢	peratur	e(s) ℃ <u>3.4</u>	and Ol	iher Rf	ernarks	Lon	ζ.	۷	Noo	Б.			9/26/2022	
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#### Login Sample Receipt Checklist

#### Client: HDR Inc

#### Login Number: 18719 List Number: 1 Creator: Fettig, Riley

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
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	

Job Number: 590-18719-1

List Source: Eurofins Spokane

# 🛟 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 590-18744-1

Client Project/Site: Simplot Warden

# For:

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

Attn: Jered Newcomb

Candre Arrington

Authorized for release by: 9/28/2022 4:33:46 PM

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

<section-header><section-header><text><text><text>

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.

# **Table of Contents**

Cover Page	1
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Case Narrative	3
Sample Summary	4
Definitions	5
Client Sample Results	
QC Sample Results	8
Chronicle	9
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Method Summary	12
Chain of Custody	13
Receipt Checklists	14

#### Job ID: 590-18744-1

#### Laboratory: Eurofins Spokane

#### Narrative

#### Receipt

The samples were received on 9/27/2022 3:12 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

#### GC Semi VOA

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

#### **General Chemistry**

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

#### **Organic Prep**

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

# Sample Summary

#### Client: HDR Inc Project/Site: Simplot Warden

Job ID: 590-18744-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18744-1	SVE-Soil-Sept27-35Pre1	Solid	09/27/22 13:29	09/27/22 15:12
590-18744-2	SVE-Soil-Sept27-35Pre2	Solid	09/27/22 13:31	09/27/22 15:12
590-18744-3	SVE-Soil-Sept27-35Pre3	Solid	09/27/22 13:33	09/27/22 15:12
590-18744-4	SVE-Soil-Sept27-35Pre4	Solid	09/27/22 13:35	09/27/22 15:12
590-18744-5	Trip Blank	Solid	09/27/22 00:00	09/27/22 15:12

# Qualifiers

#### GC Semi VOA Qualifier **Qualifier Description**

Qualifier
<b>F</b> 0

Quaimer	Quaimer Description	
F2	MS/MSD RPD exceeds control limits	
Glossary		<b>5</b>
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	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	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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		

# **Client Sample Results**

	Gliefit	Sample i	<b>Nesulis</b>	
Client: HDR Inc Project/Site: Simplot Warden				Job ID: 590-18744-1
Client Sample ID: SVE-So Date Collected: 09/27/22 13:29 Date Received: 09/27/22 15:12	)			Lab Sample ID: 590-18744-1 Matrix: Solid
General Chemistry Analyte	Result Qualifier	RL	RL Unit	D Prepared Analyzed Dil Fac
Percent Moisture	- <u>10.6</u>	0.01	0.01 %	$\frac{1}{09/28/22} \frac{1}{09/28/57} \frac{1}{1}$
Percent Solids	89.4	0.01	0.01 %	09/28/22 08:57 1
Client Sample ID: SVE-So Date Collected: 09/27/22 13:29 Date Received: 09/27/22 15:12				Lab Sample ID: 590-18744-1 Matrix: Solid Percent Solids: 89.4
Method: 8011 - EDB		D.		D Demond Anslored Dill Foo
Analyte 1,2-Dibromoethane (EDB)	- Result Qualifier - ND F2	RL	0.038 Unit	D         Prepared         Analyzed         Dil Fac           ∞         09/28/22 08:26         09/28/22 11:00         1
		0.004		
Client Sample ID: SVE-So Date Collected: 09/27/22 13:31 Date Received: 09/27/22 15:12	L · ·			Lab Sample ID: 590-18744-2 Matrix: Solid
General Chemistry	Result Qualifier	RL	RL Unit	D Prepared Analyzed Dil Fac
Analyte Percent Moisture	Quaimer	0.01	0.01 0111	D         Prepared         Analyzed         Dil Fac           09/28/22 08:57         1
Percent Solids	89.4	0.01	0.01 %	09/28/22 08:57 1
Date Received: 09/27/22 15:12 Method: 8011 - EDB Analyte	Result Qualifier	RL	MDL Unit	D Prepared Analyzed Dil Fac
1,2-Dibromoethane (EDB)	ND Quainer	0.053	0.037 ug/Kg	→ 09/28/22 08:26 09/28/22 11:49 1
Client Sample ID: SVE-So Date Collected: 09/27/22 13:33 Date Received: 09/27/22 15:12	3			Lab Sample ID: 590-18744-3 Matrix: Solid
General Chemistry	Result Qualifier	RL	RL Unit	D Prepared Analyzed Dil Fac
Analyte Percent Moisture	10.9	0.01	0.01 %	D         Prepared         Analyzed         Dil Fac           09/28/22 08:57         1
Percent Solids	89.1	0.01	0.01 %	09/28/22 08:57 1
Client Sample ID: SVE-So Date Collected: 09/27/22 13:33 Date Received: 09/27/22 15:12	3			Lab Sample ID: 590-18744-3 Matrix: Solid Percent Solids: 89.1
Method: 8011 - EDB Analyte	Result Qualifier	RL	MDL Unit	D Prepared Analyzed Dil Fac
1,2-Dibromoethane (EDB)	ND - ND	0.055	0.038 ug/Kg	$\frac{1}{2} \frac{1}{9} \frac{1}{9} \frac{1}{9} \frac{1}{2} \frac{1}{9} \frac{1}{2} \frac{1}{9} \frac{1}{2} \frac{1}$
Client Sample ID: SVE-So Date Collected: 09/27/22 13:35 Date Received: 09/27/22 15:12	5			Lab Sample ID: 590-18744-4 Matrix: Solid
General Chemistry	Beault Ousliffer			D Demond Archived Differen
Analyte Percent Moisture	Result Qualifier		0.01 Unit	<u>Dil Fac</u> <u>09/28/22 08:57</u>
	0.4	0.01	0.01 /0	09/20/22 00.57

# **Client Sample Results**

		Client !	Sample F	Resul	ts				
Client: HDR Inc Project/Site: Simplot Warden			•					Job ID: 590-1	18744-1
Client Sample ID: SVE-Soil-S Date Collected: 09/27/22 13:35 Date Received: 09/27/22 15:12	ept27-3	35Pre4				L	ab Sample	e ID: 590-18 Matrix	8744-4 x: Solid
General Chemistry (Continued) Analyte Percent Solids	Result 91.6	Qualifier		<b>RL</b> 0.01	Unit %	D	Prepared	Analyzed	Dil Fac
Client Sample ID: SVE-Soil-So Date Collected: 09/27/22 13:35 Date Received: 09/27/22 15:12		35Pre4			/u	L		e ID: 590-18	8744-4 x: Solid
Method: 8011 - EDB									
Analyte     1,2-Dibromoethane (EDB)	Result ND	Qualifier	<b>RL</b> 0.052	<b>MDL</b> 0.037	Unit ug/Kg	<u> </u>	Prepared 09/28/22 08:26	Analyzed 09/28/22 12:22	Dil Fac
Client Sample ID: Trip Blank Date Collected: 09/27/22 00:00 Date Received: 09/27/22 15:12						L	ab Sample	e ID: 590-18 Matrix	8744-5 x: Solid
Method: 8011 - EDB Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050		ug/Kg		09/28/22 08:26	·	

# Method: 8011 - EDB

Lab Sample ID: MB 590-382	78/2-A						CI	ient Sam	ole ID: Method	l Blan
Matrix: Solid									Prep Type: To	otal/N
Analysis Batch: 38281									Prep Batch:	3827
-		MB MB								
Analyte	Re	esult Qualifier		RL	MDL Uni	t	D	Prepared	Analyzed	Dil Fa
1,2-Dibromoethane (EDB)		ND	0.0	50 0	0.035 ug/l	٢g	09	/28/22 08:26	09/28/22 10:27	
Lab Sample ID: LCS 590-382	278/3-A					Cli	ent Sa	ample ID:	Lab Control S	Sampl
Matrix: Solid									Prep Type: To	otal/N
Analysis Batch: 38281									Prep Batch:	3827
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	r Unit		0 %Rec	Limits	
1,2-Dibromoethane (EDB)			1.00	1.12		ug/Kg		112	60 - 140	
Lab Sample ID: 590-18744-1	MS					Client	Samp	le ID: SVE	-Soil-Sept27-	35Pre
Matrix: Solid									Prep Type: To	
Analysis Batch: 38281									Prep Batch:	3827
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte		Qualifier	Added	Result	Qualifier				Limits	
1,2-Dibromoethane (EDB)	ND	F2	1.10	0.797		ug/Kg	Ķ	¥ 72	60 - 140	
Lab Sample ID: 590-18744-1	MSD					Client	Samp	le ID: SVE	-Soil-Sept27-	35Pre
Matrix: Solid									Prep Type: To	otal/N
Analysis Batch: 38281									Prep Batch:	3827
	Sample	Sample	Spike	MSD	MSD				%Rec	RP
Analyte		Qualifier	Added		Qualifier	Unit		%Rec	Limits RPD	Lim
1,2-Dibromoethane (EDB)	ND	F2	1.10	1.05	F2	ug/Kg	Ķ	× 96	60 - 140 27	2
Nethod: Moisture - Perc	ent Mois	sture								
Lab Sample ID: 590-18744-1	DU					Client	Samp	le ID: SVE	-Soil-Sept27-	35Pre
Matrix: Solid									Prep Type: To	otal/N
Analysis Batch: 38280										
	Sample	Sample		DU	DU					RP
Analyte	Result	Qualifier		Result	Qualifier	r Unit	0	)	RPD	) Lim
Percent Moisture	10.6			9.9		%			6	5 2
Percent Solids	89.4			90.1		%			0.7	2
	DU					Client	Samp	le ID: SVE	-Soil-Sept27-	35Pre
Lab Sample ID: 590-18744-4									Prep Type: To	otal/N
Matrix: Solid										
Matrix: Solid	Sample	Sample		DU	DU					RP
Matrix: Solid Analysis Batch: 38280		Sample Qualifier			DU Qualifie	r Unit		)	RPD	
Lab Sample ID: 590-18744-4 Matrix: Solid Analysis Batch: 38280 Analyte Percent Moisture						r Unit	[	<u> </u>	<b>RPD</b> 11	

Initial

Amount

Dil

1

Factor

Run

Prep Type

Total/NA

#### Client Sample ID: SVE-Soil-Sept27-35Pre1 Date Collected: 09/27/22 13:29 Date Received: 09/27/22 15:12

Batch

Method

Moisture

Batch

Type

Analysis

	-18744-1 atrix: Solid		ab Sample	L	
			Prepared	Batch	Final
5	Lab	Analyst	or Analyzed	Number	Amount
	EET SPK	NMI	09/28/22 08:57	38280	
	-18744-1	ID: 590	ab Sample	L	
	atrix: Solid	Ма			
			P		
	olids: 89.4	ercent S			
8	<u>01105: 89.4</u>	ercent S		Batch	Final
8	Lab		Prepared	Batch Number	Final Amount
8		Analyst			
<b>8</b> 9	Lab EET SPK	Analyst	Prepared or Analyzed 09/28/22 08:26	Number           38278	Amount 2 mL
8 9	Lab	<b>Analyst</b> NMI	Prepared or Analyzed	Number	Amount
8 9 10	Lab EET SPK EET SPK	Analyst NMI NMI	Prepared or Analyzed 09/28/22 08:26 09/28/22 11:00	Number           38278           38281	Amount 2 mL
8 9 10	Lab EET SPK EET SPK	Analyst NMI NMI ID: 590	Prepared or Analyzed 09/28/22 08:26	Number           38278           38281	Amount 2 mL

# Client Sample ID: SVE-Soil-Sept27-35Pre1 Date Collected: 09/27/22 13:29

Date Received: 09/27/22 15:12

	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	38278	09/28/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38281	09/28/22 11:00	NMI	EET SPK

# Client Sample ID: SVE-Soil-Sept27-35Pre2

Date Collected: 09/27/22 13:31 Date Received: 09/27/22 15:12

Г	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			38280	09/28/22 08:57	NMI	EET SPK

# Client Sample ID: SVE-Soil-Sept27-35Pre2

Date Collected: 09/27/22 13:31 Date Received: 09/27/22 15:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.55 g	2 mL	38278	09/28/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38281	09/28/22 11:49	NMI	EET SPK

#### Client Sample ID: SVE-Soil-Sept27-35Pre3 Date Collected: 09/27/22 13:33 Date Received: 09/27/22 15:12

# Lab Sample ID: 590-18744-3

Lab Sample ID: 590-18744-3

Lab Sample ID: 590-18744-4

Lab Sample ID: 590-18744-2

Matrix: Solid

Matrix: Solid

Matrix: Solid

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 Moisture 38280 09/28/22 08:57 NMI EET SPK Analysis 1

#### Client Sample ID: SVE-Soil-Sept27-35Pre3 Date Collected: 09/27/22 13:33 Date Received: 09/27/22 15:12

Date Received: 09/27/22 15:12 Percent Solids: 89.1										olids: 89.1
Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.25 g	2 mL	38278	09/28/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38281	09/28/22 12:06	NMI	EET SPK

#### Client Sample ID: SVE-Soil-Sept27-35Pre4 Date Collected: 09/27/22 13:35 Date Received: 09/27/22 15:12

_	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			38280	09/28/22 08:57	NMI	EET SPK

# Lab Chronicle

#### Client Sample ID: SVE-Soil-Sept27-35Pre4 Date Collected: 09/27/22 13:35 Date Received: 09/27/22 15:12

Lab	Sample	ID:	590-18744-4
			Matrix: Solid

Percent Solids: 91.6

Matrix: Solid

Lab Sample ID: 590-18744-5

Job ID: 590-18744-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.41 g	2 mL	38278	09/28/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38281	09/28/22 12:22	NMI	EET SPK

#### Client Sample ID: Trip Blank Date Collected: 09/27/22 00:00 Date Received: 09/27/22 15:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.05 g	2 mL	38278	09/28/22 08:26	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38281	09/28/22 12:39	NMI	EET SPK

#### Laboratory References:

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

### Laboratory: Eurofins Spokane

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

Authority	Pre	ogram	Identification Number	Expiration Date
Washington	Sta	ate	C569	01-06-23
The following analytes	are included in this rend	rt but the laboratory is r	not certified by the governing authority	This list may include analytes for whic
the agency does not c	•		for contined by the governing autionty.	This list may mondee analytes for white
• •	•	Matrix	Analyte	
the agency does not o	offer certification.	•	, , , , ,	

# **Method Summary**

#### Client: HDR Inc Project/Site: Simplot Warden

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

#### **Protocol References:**

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

Latonno opona io

#### 11922 East 1st Ave Spokane, WA 99206

# Chain of Custody Record

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Environment Testing Americ

Phone (509) 924-9200 Phone (509) 924-9290																		_			
Client Information	Sampler Jered Newcomb	, JAN			PM: rington	, Rai	ndee	еE				Carr	ier Tra	icking I	√o(s):			C	OC No:		2
Client Information Client Contact: Jered Newcomb	Phone: 509-899-4371				<sup>Mail:</sup> andee./	Arrin	gton	@et.eu	rofins	us.co	m	Stat WA	e of Oi	rigin:					age: Page 1 of 1		3
Company: HDR Inc			PWSID:						Ar	alys	is Re	que	sted	I				Ĵ	ob #:		
Address: 835 N Post St. Ste 101	Due Date Requeste	ed:							ΤI			İ					~		reservation Cod		
City: Spokane	TAT Requested (da	iys): 24 ho	ur															ŧ	A HCL 3 NaOH C Zn Acetate	M Hexane N None O AsNaO2	5
State, Zip: WA, 99202	Compliance Projec	:t: A Yes	A No		-  [													E	D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3 R Na2S2O3	6
Phone: 509-899-4371	PO #: Purchase Order	Requested	1		٦													- 1	F MeOH G Amchlor H Ascorbic Acid	R Na2S2O3 S H2SO4 T TSP Dodecahydr	
Email: jered newcomb@hdrinc.com	WO #:					(ON											ofter.	2 2	lce J DI Water	U Acetone V MCAA	7
Project Name: Simplot Warden	Project #: 59002373				e Ve	5											olivači Uzero.		k edta L eda	W pH 4-5 Z other (specify)	8
Site: Warden WA	SSOW#:				Sample (Yes	Spices												5   C	)ther		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/ol3 BT=Tissue, A=Alr)	Field Filtered	Pertorm MS/N	8011 EDB										1.3	Total Number o	Special In	structions/Note:	9 10
		$\geq \leq$	Preservat	lon Code	: 🕸	<u> </u>	1											X.			111
SVE-Soil-Sept > 7 -35Pre1	91 27 12022	1329	G	S	N	N	x														
SVE-Soil-Sept <u>7</u> -35Pre2	9127 12022	133)	G	S	Ν	N	x														12
SVE-Soil-Sept 7-35Pre3	91 27 12022	1333	G	S	Ν	N	х														
SVE-Soil-Sept )7-35Pre4	91)712022	1335	G	s	Ν	N	х											Nyana			
Trip Blank		•		S	Ν	N	х					•	1		1 1		1				
									1		-								-		
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									<b>_</b>			_	_					-			
										Ļl					L			1			
Possible Hazard Identification	son B	iown [	kadiological		8		<u> </u>	Dispos eturn To						i if sa By La	-	es are			d longer than 1 e For	( month) Months	
Deliverable Requested: I, II, III IV Other (specify)			Stadiological	-				nstructi					0307	Jy 1.0	<u> </u>			CINY	010		
Empty Kit Relinquished by:		Date:			Tim	e:							Meti	hod of	Shipm	ent:				<u> </u>	
Relinguished by: Jered Newcomb	Date/Time: 9/27/2		512	Company		R	Receiv	ved ps/	ln	-fx	HA				Date/	Time: V1	22	,	1512	Company EETORD	
Relinquished by:	Date/Time:		C. C	Company		R	Receiv	/ed by:	7	1)	7				Dale/					Company	
Relinquished by:	Date/Time:		(	Company		R	Receiv	/ed by:		<u> </u>					Date/	Time:				Company	$\neg$
Custody Seals Intact: Custody Seal No. $\Delta$ Yes $\Delta$ No			F	Page 1	3 of 1	4 <sup>c</sup>	Cooler	r Tempera	ature(s)	°C and	I Other <sub>4</sub> R	kemark Ç	s. 3	V	<i>7</i> U	Ś	\(	20	9Ø	9/28/20	)22

## Login Sample Receipt Checklist

#### Client: HDR Inc

#### Login Number: 18744 List Number: 1 Creator: Fettig, Riley

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

Job Number: 590-18744-1

List Source: Eurofins Spokane

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 590-18784-1

Client Project/Site: Simplot Warden

# For:

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

Attn: Jered Newcomb

Candre Arrington

Authorized for release by: 9/30/2022 5:00:58 PM

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

LINKS Review your project results through  $\overrightarrow{EOL}$ Have a Question? Ask The Expert Visit us at: 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.

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

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Receipt Checklists	14

#### Job ID: 590-18784-1

#### Laboratory: Eurofins Spokane

#### Narrative

#### Receipt

The samples were received on 9/29/2022 3:01 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

#### GC Semi VOA

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

#### **General Chemistry**

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

#### **Organic Prep**

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

# Sample Summary

#### Client: HDR Inc Project/Site: Simplot Warden

Job ID: 590-18784-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18784-1	SVE-Soil-Sept29-36Pre1	Solid	09/29/22 13:10	09/29/22 15:01
590-18784-2	SVE-Soil-Sept29-36Pre2	Solid	09/29/22 13:12	09/29/22 15:01
590-18784-3	SVE-Soil-Sept29-36Pre3	Solid	09/29/22 13:14	09/29/22 15:01
590-18784-4	SVE-Soil-Sept29-36Pre4	Solid	09/29/22 13:16	09/29/22 15:01
590-18784-5	Trip Blank	Solid	09/29/22 00:00	09/29/22 15:01

# **Definitions/Glossary**

#### Client: HDR Inc Project/Site: Simplot Warden

TEF

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

Too Numerous To Count

Job ID: 590-18784-1

Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	5
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)	<b>B</b>
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
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	

# **Client Sample Results**

	Clieff	i Sample i	<b>Vesuiis</b>	
Client: HDR Inc Project/Site: Simplot Warden				Job ID: 590-18784-1
Client Sample ID: SVE-Soil Date Collected: 09/29/22 13:10 Date Received: 09/29/22 15:01	-Sept29-36Pre1			Lab Sample ID: 590-18784-1 Matrix: Solid
General Chemistry	Result Qualifier	RL	RL Unit	D Prepared Analyzed Dil Fac
Analyte Percent Moisture	10.5	<u></u>	0.01	D Prepared Analyzed Dil Fac 09/30/22 07:47
Percent Solids	89.5	0.01	0.01 %	09/30/22 07:47 1
Client Sample ID: SVE-Soil Date Collected: 09/29/22 13:10 Date Received: 09/29/22 15:01	-Sept29-36Pre1			Lab Sample ID: 590-18784-1 Matrix: Solid Percent Solids: 89.5
Method: 8011 - EDB				
Analyte 1,2-Dibromoethane (EDB)	Result Qualifier	<b>RL</b>		D         Prepared         Analyzed         Dil Fac           ∞         09/30/22 08:16         09/30/22 11:09         1
		0.054	0.038 ug/Kg	
Client Sample ID: SVE-Soil Date Collected: 09/29/22 13:12 Date Received: 09/29/22 15:01	-Sept29-36Pre2			Lab Sample ID: 590-18784-2 Matrix: Solid
General Chemistry Analyte	Result Qualifier	RL	RL Unit	D Prepared Analyzed Dil Fac
Percent Moisture	9.5	0.01	0.01 %	$\frac{1}{09/30/22} \frac{1}{07:47} \frac{1}{1}$
Percent Solids	90.5	0.01	0.01 %	09/30/22 07:47 1
Date Received: 09/29/22 15:01 Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	Result Qualifier		MDL Unit	D         Prepared         Analyzed         Dil Fac           09/30/22 08:16         09/30/22 11:57         1
Client Sample ID: SVE-Soil Date Collected: 09/29/22 13:14 Date Received: 09/29/22 15:01	-Sept29-36Pre3			Lab Sample ID: 590-18784-3 Matrix: Solid
General Chemistry Analyte	Result Qualifier	RL	RL Unit	D Prepared Analyzed Dil Fac
Percent Moisture	8.6	0.01	0.01 %	<u> </u>
Percent Solids	91.4	0.01	0.01 %	09/30/22 07:47 1
Client Sample ID: SVE-Soil Date Collected: 09/29/22 13:14 Date Received: 09/29/22 15:01	-Sept29-36Pre3			Lab Sample ID: 590-18784-3 Matrix: Solid Percent Solids: 91.4
Method: 8011 - EDB Analyte	Result Qualifier	RL	MDL Unit	D Prepared Analyzed Dil Fac
1,2-Dibromoethane (EDB)	ND	0.050	0.035 ug/Kg	
Client Sample ID: SVE-Soil Date Collected: 09/29/22 13:16 Date Received: 09/29/22 15:01	-Sept29-36Pre4			Lab Sample ID: 590-18784-4 Matrix: Solid
General Chemistry	Desult Overlift	RL	RL Unit	
		PI	UI IInit	D Prepared Analyzed Dil Fac
Analyte Percent Moisture	Result Qualifier	0.01	0.01 %	$\frac{1}{09/30/22} \frac{1}{07:47} \frac{1}{1}$

# **Client Sample Results**

		Client	Sample F	Resul	ts				
Client: HDR Inc Project/Site: Simplot Warden			•					Job ID: 590-7	18784-1
Client Sample ID: SVE-Soil-S Date Collected: 09/29/22 13:16 Date Received: 09/29/22 15:01	ept29-;	36Pre4				L	.ab Sample	e ID: 590-18 Matrix	8784-4 x: Solid
General Chemistry (Continued) Analyte Percent Solids	Result 89.9	Qualifier	RL	<b>RL</b> 0.01	Unit %	<u>D</u>	Prepared	Analyzed 09/30/22 07:47	Dil Fac
Client Sample ID: SVE-Soil-S Date Collected: 09/29/22 13:16 Date Received: 09/29/22 15:01	ept29-:	36Pre4				L		e ID: 590-18 Matrix Percent Solic	x: Solid
Method: 8011 - EDB Analyte 1,2-Dibromoethane (EDB)	Result ND	Qualifier	RL	<b>MDL</b> 0.037	Unit ug/Kg	<b>D</b>	Prepared	Analyzed	Dil Fac
Client Sample ID: Trip Blank Date Collected: 09/29/22 00:00 Date Received: 09/29/22 15:01				_		L	.ab Sample	e ID: 590-18 Matrix	8784-5 x: Solid
Method: 8011 - EDB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Method: 8011 - EDB

Lab Sample ID: MB 590-383	335/2-A						C	lient Sam	ole ID: Met		
Matrix: Solid									Prep Type		
Analysis Batch: 38338									Prep Ba	tch:	3833
		MB MB									
Analyte	Re	sult Qualifier	RL		MDL Unit		D	Prepared	Analyzed	k	Dil Fa
1,2-Dibromoethane (EDB)		ND	0.050	C	0.035 ug/K	g	09	9/30/22 08:16	09/30/22 09	:50	
Lab Sample ID: LCS 590-38	335/3-A					Clie	ent S	ample ID:	Lab Contr	ol Sa	ample
Matrix: Solid									Prep Type		
Analysis Batch: 38338									Prep Ba		
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	I	D %Rec	Limits		
1,2-Dibromoethane (EDB)			1.00	1.18		ug/Kg		118	60 - 140		
Lab Sample ID: LCS 590-38	335/4-A					Clie	ent S	ample ID:	Lab Contr	ol Sa	ampl
Matrix: Solid									Prep Type		
Analysis Batch: 38338									Prep Ba		
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits		
1,2-Dibromoethane (EDB)			1.00	1.21		ug/Kg		121	60 - 140		
Lab Sample ID: LCS 590-38	335/5-A					Clie	ent S	ample ID:	Lab Contr	ol Sa	ampl
Matrix: Solid						•			Prep Type		
Analysis Batch: 38338									Prep Ba		
Analysis Baten: 00000			Spike	LCS	LCS				%Rec		0000
Analyte			Added		Qualifier	Unit		D %Rec	Limits		
1,2-Dibromoethane (EDB)		·	1.00	1.10		ug/Kg		110	60 - 140		
Lab Sample ID: LCS 590-38	335/6-A					Clie	ent S	ample ID:	Lab Contr	ol Sa	ample
Matrix: Solid									Prep Type		
Analysis Batch: 38338									Prep Ba		
· · · · · <b>,</b> · · · · · · · · · · · · · · · · · · ·			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits		
1,2-Dibromoethane (EDB)			1.00	1.11		ug/Kg			60 - 140		
Lab Sample ID: 590-18784-	1 MS					Client S	Samp	ole ID: SVE	E-Soil-Sept	29-3	6Pre
Matrix: Solid									Prep Type	e: To	tal/N/
Analysis Batch: 38338									Prep Ba		
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	I	D %Rec	Limits		
1,2-Dibromoethane (EDB)	ND		1.08	0.795		ug/Kg	3	¢ 74	60 - 140		
Lab Sample ID: 590-18784-	1 MSD					Client S	Samp	ole ID: SVE	E-Soil-Sept	29-3	6Pre <sup>,</sup>
Matrix: Solid									Prep Type		
Analysis Batch: 38338									Prep Ba		
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPI
Analyte		Qualifier	Added	Result	Qualifier	Unit	I	D %Rec	Limits	RPD	Limi
1,2-Dibromoethane (EDB)	ND		1.05	0.868						9	20

Initial

Amount

Initial

Amount

10.31 g

1 mL

Batch

38334

Batch

38335

38338

Number

Number

Final

Amount

Final

Amount

2 mL

1 mL

Dil

1

Dil

1

Factor

Factor

Run

Run

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

#### Client Sample ID: SVE-Soil-Sept29-36Pre1 Date Collected: 09/29/22 13:10 Date Received: 09/29/22 15:01

Client Sample ID: SVE-Soil-Sept29-36Pre1

Batch

Method

Moisture

Batch

8011

8011

Method

Batch

Туре

Analysis

Batch

Туре

Prep

Analysis

L	ab Sample		-18784-1 atrix: Solid	
	Prepared			
ər	or Analyzed	Analyst	Lab	5
	09/30/22 07:47	NMI	EET SPK	
L	ab Sample		-18784-1 atrix: Solid	
	P	ercent S	olids: 89.5	
	Prepared			8
ər	Prepared or Analyzed	Analyst	Lab	8
ər	•		Lab EET SPK	8 9
ər	or Analyzed			<b>8</b> 9
	or Analyzed 09/30/22 08:16	M1V M1V	EET SPK EET SPK	8 9 10

Date Collected: 09/29/22 13:12 Date Received: 09/29/22 15:01

Date Collected: 09/29/22 13:10

Date Received: 09/29/22 15:01

	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			38334	09/30/22 07:47	NMI	EET SPK

Client Sample ID: SVE-Soil-Sept29-36Pre2

```
Date Collected: 09/29/22 13:12
Date Received: 09/29/22 15:01
```

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.92 g	2 mL	38335	09/30/22 08:16	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38338	09/30/22 11:57	M1V	EET SPK

```
Client Sample ID: SVE-Soil-Sept29-36Pre3
Date Collected: 09/29/22 13:14
Date Received: 09/29/22 15:01
```

# Lab Sample ID: 590-18784-3

Lab Sample ID: 590-18784-3

Lab Sample ID: 590-18784-4

Lab Sample ID: 590-18784-2

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 91.4

Matrix: Solid

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analvst	Lab
Total/NA	Analysis	Moisture		1			38334	09/30/22 07:47	NMI	EET SPK

#### Client Sample ID: SVE-Soil-Sept29-36Pre3 Date Collected: 09/29/22 13:14 Date Received: 09/29/22 15:01

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.84 g	2 mL	38335	09/30/22 08:16	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38338	09/30/22 12:13	M1V	EET SPK

#### Client Sample ID: SVE-Soil-Sept29-36Pre4 Date Collected: 09/29/22 13:16 Date Received: 09/29/22 15:01

_	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			38334	09/30/22 07:47	NMI	EET SPK

# Lab Chronicle

#### Client Sample ID: SVE-Soil-Sept29-36Pre4 Date Collected: 09/29/22 13:16 Date Received: 09/29/22 15:01

Lab Sample	ID: 590-18784-4
-	Matrix: Solid

Percent Solids: 89.9

Matrix: Solid

Lab Sample ID: 590-18784-5

Job ID: 590-18784-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.56 g	2 mL	38335	09/30/22 08:17	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38338	09/30/22 13:32	M1V	EET SPK

#### Client Sample ID: Trip Blank Date Collected: 09/29/22 00:00 Date Received: 09/29/22 15:01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.40 g	2 mL	38335	09/30/22 08:17	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38338	09/30/22 13:48	M1V	EET SPK

#### Laboratory References:

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

### 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	St	ate	C569	01-06-23
The following analytes	s are included in this repo	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for whic
the agency does not o	•	,	······································	·····
0,	•	Matrix	Analyte	·····, ·····, ·····, ·····, ···, ··, ··, ···, ··, ··, ···, ···, ··, ···, ···, ···, ···, ···, ···, ···, ···, ··, ··, ··, ··, ···, ···, ···, ···, ···, ···, ···, ···, ···, ···, ···, ···, ···, ··, ···, ···, ···, ··, ···, ···, ··, ··, ··, ··, ··, ···, ·
the agency does not o	offer certification.			

# **Method Summary**

#### Client: HDR Inc Project/Site: Simplot Warden

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

#### **Protocol References:**

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

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11922 East 1st Ave

# **Chain of Custody Record**

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		E'reari.

Environment Testing An aric

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

Client Information	Sampler Lab PM Jered Newcomb, JAN Arrington Randee E						Carrier Tracking No(s):							C	COC No:		2					
Client Information Client Contact: Jered Newcomb					-Maik						State of Origin:						Page:		2			
Company:	509-699-4371		PWSID:	F	Randee.Arrington@et.eurofinsus.com						WA							Page 1 of 1				
HDR Inc					Analysis Rec						quested									A		
Address. 835 N Post St. Ste. 101	Due Date Requested:																	1	Preservation Cod		-	
City: Spokane State, Zip:	TAT Requested (da				-													ĺ	I	A HCL B NaOH	M Hexane N None	5
Spokane		24 ho	ur			5 m 2 m 2												f		C Zn Acetate D Nitric Acid	O AsNaO2 P Na2O4S	
WA, 99202	Compliance Project: 🛆 Yes 🛆 No																		1	E NaHSO4	Q Na2SO3	6
Phone: 509-899-4371	PO#: Durchasa Ordar	Doguoatod																:		F MeOH G Amchlor	R Na2S2O3 S H2SO4	
Email:	Purchase Order Requested wo #:				<b>₽</b>													:		H Ascorbic Acid	T TSP Dodecahydrate U Acetone	7
jered.newcomb@hdrinc.com					~2	S of													2	J DI Water K EDTA	V MCAA W pH 4-5	
Project Name: Simplot Warden	Project #: 59002373				Fittered Sample (Yes or No)	s or									L EDA	Z other (specify)	8					
Simplot Warden Site:	SSOW#:				ě	eV dsi				1								la de la della d	5   c	Other:		
Warden WA				Matri	Sar	isi.													5			9
			Sample	(W=waie	, jere	NSN	m												Number			
		Onumia		S=solid, O≖waste/c		Wo	80 80 80												Z			10
Sample Identification	Sample Date	Sample Time	(C≂comp, G=grab)	BT=Tissu A=Air)	", jěľ	ue.	8011					1							lotal	Special In	structions/Note:	
	$>\!\!<$	$>\!\!<$	Preservatio		e: X	$\mathbf{X}$	N											Ď	X			11
SVE-Soil-Sept j -36Pre1	9/ 27 /2022	1316	G	S	N	Ν	х															
SVE-Soil-Sept ) -36Pre2	9/ 2022	1312	G	S	N	Ν	х	1														12
SVE-Soil-Sept X1 -36Pre3	9/J7 /2022	1314	G	S	N	Ν	x															
SVE-Soil-Sept )(9 -36Pre4	9/XJ /2022	1316	G	S	N	N	x															
Trip Blank				S	N	N	x						Ι	llan	Nim	E) ( i E tar			-11-41-1			
													T									
												+	-	590-18784 Chain of C							-	
					-+	<b>[</b>	-	<u> </u>	╀╌┨				+	1	10/8	4 Cr	nain o	fCu	sto	dy		
						<u> </u>		<u> </u>										1	1			
																		T				
Possible Hazard Identification						Sai	mpie	Dis.	posa	I ( A f	ee ma	y be	asses	sed i	fsar	nple	s are	reta	ine	d longer than 1	month)	
Non-Hazard ammable S itant Pois																						
Deliverable Requested   II III, IV Other (specify)																						
						d of S	hipme	nt:														
Relinquished by: Jered Newcomb	Date/Time: 9/24/22 (50) Compa					Received by:					đ	H Date/Time: 9/29/2				12	17	- 1501	Company FEWPO			
Relinquished by:	Date/Time: Com					Received by:				V	Date/Time:						. 10 . 1	Company				
Relinquished by: Dete/Time: Company			mpany								Company											
Custody Seals Intact: Custody Seal No. Δ Yes Δ No			Pa	age 1	3 of	14	Coole	er Ten	nperatu	ure(s) °(	C and O	her Re	emarks:	3	Ň		3	6		lloou	9/30/202	2

## Login Sample Receipt Checklist

#### Client: HDR Inc

#### Login Number: 18784 List Number: 1 Creator: Fettig, Riley

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

Job Number: 590-18784-1

List Source: Eurofins Spokane