# FSS

June 9, 2022

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

### Subject: Progress Report for May 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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Christer Loftenius, Ecology June 9, 2022 Page 2

### Activities in May 2022

- Simplot conducted weekly inspections of the stockpile cover per the Ex-Situ Soil Stockpile Protection Plan (HDR December 2021) through May 18. Repairs to the stockpile cover were completed by GrayMar. Documented weekly checks will discontinue now that the project is active again; the stockpile cover will be addressed as necessary by the SVE provider/operator (GrayMar).
- Simplot/HDR coordinated mobilization and ex-situ soil vapor extraction (SVE) system start-up logistics with the SVE provider/operator, GrayMar.
- GrayMar mobilized equipment and supplies to the site on May 23, 2022. Site preparation and treatment cell construction was completed between May 23 and May 31, 2022.
- Soil samples were collected on May 31, 2022 prior to SVE system operation to determine pretreatment ethylene dibromide (EDB), percent moisture, and total organic carbon (TOC), per the SVE Performance Test Plan (PTP; HDR May 2022). Four discrete core soil samples and the associated quality control (QC) samples were analyzed for EDB by Eurofins in Spokane, Washington on a rush 24-hour turnaround basis. All samples were reported as non-detect for EDB by the analytical laboratory. EDB analytical results are attached to this memo. TOC analytical results are pending.
- Simplot initiated SVE operations per the *Cleanup Action Implementation Compliance Monitoring Plan* (CAICMP; HDR revised May 2022) *and SVE Performance Test Plan* (PTP; HDR May 2022).
- SVE pilot test operations commenced on June 1, 2022. Simplot/HDR collected field data and vapor samples on each day between June 1 and June 5, 2022, per the PTP. Vapor sample and field data analysis are in progress.
- Simplot/HDR collected four discrete core soil samples and associated QC samples after 5 days of operation on June 5, 2022. These samples were analyzed for EDB by Eurofins in Spokane, Washington on a rush 24-hour turnaround basis. All samples were reported as non-detect for EDB by the analytical laboratory. Post-treatment EDB analytical results are attached to this memo.
- Simplot/HDR coordinated with GrayMar to remove pilot study soil within the treatment pile for use as on-site backfill based on non-detect soil sample analytical results, in accordance with the CAIMP and PTP.
- Simplot/HDR are working on a draft cleanup action report to summarize the remedial action (impacted soils excavation) to date.

### **Anticipated Activities for June 2022**

- Simplot/HDR to schedule meeting with Ecology to discuss results of May 2022/June 2022 SVE pilot test.
- Simplot/HDR currently compiling pilot study field and laboratory analytical data for optimization of SVE system operation and will communicate results and any associated recommendations regarding system operation to Ecology.

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

If you have questions please feel free to contact me at (208) 387-7018 or at <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:Soil Sample Analytical Report (pre-treatment), Eurofins 6/2/2022Soil Sample Analytical Report (post-treatment), Eurofins 6/7/2022

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

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# 🛟 eurofins

# **Environment Testing** America

# **ANALYTICAL REPORT**

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

### Laboratory Job ID: 590-17643-1

Client Project/Site: Simplot Warden Revision: 1

## For:

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

Attn: Jered Newcomb

dande Arrington

Authorized for release by: 6/2/2022 4:54:05 PM

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

Have a Question? Expert This report has been electronically signed and authorized by the signatory. Electronic

signature.

Visit us at: www.eurofinsus.com/Env

..... Links

**Review your project** results through

EOL

Ask-The

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

signature is intended to be the legally binding equivalent of a traditionally handwritten

# **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     | 2  |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Definitions           | 5  |
| Client Sample Results | 6  |
| QC Sample Results     | 7  |
| Chronicle             | 8  |
| Certification Summary | 10 |
| Method Summary        | 11 |
| Chain of Custody      | 12 |
| Receipt Checklists    | 13 |
|                       |    |

# **Case Narrative**

### Job ID: 590-17643-1

### Laboratory: Eurofins Spokane

### Narrative

### Revision

The report being provided is a revision of the original report sent on 6/2/2022. The report (revision 1) is being revised due to: The method header in the final report was revised per the client's request.

### Receipt

The samples were received on 6/1/2022 8:20 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 2.4° C.

### GC Semi VOA

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

### **General Chemistry**

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

### **Organic Prep**

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

# Sample Summary

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

| Lab Sample ID | Client Sample ID     | Matrix | Collected      | Received       |
|---------------|----------------------|--------|----------------|----------------|
| 590-17643-1   | SVE-Soil-May31-1Pre1 | Solid  | 05/31/22 15:50 | 06/01/22 08:20 |
| 590-17643-2   | SVE-Soil-May31-1Pre2 | Solid  | 05/31/22 16:10 | 06/01/22 08:20 |
| 590-17643-3   | SVE-Soil-May31-1Pre3 | Solid  | 05/31/22 16:05 | 06/01/22 08:20 |
| 590-17643-4   | SVE-Soil-May31-1DUP  | Solid  | 05/31/22 15:30 | 06/01/22 08:20 |
| 590-17643-5   | SVE-Soil-May31-1Pre4 | Solid  | 05/31/22 16:20 | 06/01/22 08:20 |
| 590-17643-6   | Trip Blanks          | Solid  | 05/31/22 00:00 | 06/01/22 08:20 |

# **Definitions/Glossary**

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

Job ID: 590-17643-1

| 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   | <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

Eurofins Spokane

# **Client Sample Results**

Client: HDR Inc

Job ID: 590-17643-1

| Project/Site: Simplot Warden       |                  |       |       |       | JOD ID: 590-17643-1   |
|------------------------------------|------------------|-------|-------|-------|---|
| Client Sample ID: SVE-Soil-        | May31-1Pre1      |       |       |       | Lab Sample ID: 590-17643-1  |
| Date Collected: 05/31/22 15:50     |                  |       |       |       | Matrix: Solid   |
| Date Received: 06/01/22 08:20      |                  |       |       |       | Percent Solids: 88.8  |
| Method: 8011 - EDB                 |                  |       |       |       |   |
| Analyte                            | Result Qualifier | RL    | MDL   |       | D Prepared Analyzed Dil Fac   |
| 1,2-Dibromoethane (EDB)            | ND               | 0.054 | 0.038 | ug/Kg | ☆ 06/01/22 15:31 06/01/22 17:02 1   |
| <b>Client Sample ID: SVE-Soil-</b> | May31-1Pre2      |       |       |       | Lab Sample ID: 590-17643-2  |
| Date Collected: 05/31/22 16:10     |                  |       |       |       | Matrix: Solid   |
| Date Received: 06/01/22 08:20      |                  |       |       |       | Percent Solids: 89.4  |
| Method: 8011 - EDB                 |                  |       |       |       |   |
| Analyte                            | Result Qualifier | RL    | MDL   | Unit  | D Prepared Analyzed Dil Fac   |
| 1,2-Dibromoethane (EDB)            | ND               | 0.052 | 0.036 | ug/Kg | \overline{A}               \overline{A}               \overline{A}               \overline{A}               1   |
| Client Sample ID: SVE-Soil-        | May31-1Pre3      |       |       |       | Lab Sample ID: 590-17643-3  |
| Date Collected: 05/31/22 16:05     | indyor in roo    |       |       |       | Matrix: Solid   |
| Date Received: 06/01/22 08:20      |                  |       |       |       | Percent Solids: 89.0  |
|                                    |                  |       |       |       |   |
| Method: 8011 - EDB                 |                  |       |       |       |   |
| Analyte                            | Result Qualifier |       | MDL   |       | D Prepared Analyzed Dil Fac   |
| 1,2-Dibromoethane (EDB)            | ND               | 0.053 | 0.037 | ug/Kg | ☆ 06/01/22 15:31 06/01/22 18:07 1   |
| Client Sample ID: SVE-Soil-        | May31-1DUP       |       |       |       | Lab Sample ID: 590-17643-4  |
| Date Collected: 05/31/22 15:30     |                  |       |       |       | Matrix: Solid   |
| Date Received: 06/01/22 08:20      |                  |       |       |       | Percent Solids: 89.4  |
| Method: 8011 - EDB                 |                  |       |       |       |   |
| Analyte                            | Result Qualifier | RL    | MDL   | Unit  | D Prepared Analyzed Dil Fac   |
| 1,2-Dibromoethane (EDB)            | ND               | 0.055 | 0.038 | ug/Kg | Image: The second sec |
| Client Sample ID: SVE-Soil-        | May31-1Pro/      |       |       |       | Lab Sample ID: 590-17643-5  |
| Date Collected: 05/31/22 16:20     | mayor-nrc+       |       |       |       | Matrix: Solid   |
| Date Received: 06/01/22 08:20      |                  |       |       |       | Percent Solids: 89.3  |
|                                    |                  |       |       |       |   |
| Method: 8011 - EDB                 | Decult Qualifier | ы     | MDI   | 11    | D. Drawand Analyzed Dil Fee   |
| Analyte                            | Result Qualifier | RL    |       | Unit  | D         Prepared         Analyzed         Dil Fac           ∞         06/01/22 15:31         06/01/22 18:40         1   |
| 1,2-Dibromoethane (EDB)            | ND               | 0.054 | 0.036 | ug/Kg | © 06/01/22 15:31 06/01/22 18:40 1   |
| Client Sample ID: Trip Blank       | ks               |       |       |       | Lab Sample ID: 590-17643-6  |
| Date Collected: 05/31/22 00:00     |                  |       |       |       | Matrix: Solid   |
|                                    |                  |       |       |       |   |
| Date Received: 06/01/22 08:20      |                  |       |       |       |   |
|                                    |                  |       |       |       |   |
| Date Received: 06/01/22 08:20      | Result Qualifier | RL    | MDL   | Unit  | D Prepared Analyzed Dil Fac   |

Method: 8011 - EDB

| Lab Sample ID: MB 590-36  | 348/2-A     |        |           |               |       |        |      |        |        | (    | Clie  | nt Samp    | ole ID: Me                      | thod   | Blank                  |
|---|-------------|--------|-----------|---------------|-------|--------|------|--------|--------|------|-------|------------|---------------------------------|--------|------------------------|
| Matrix: Solid   |             |        |           |               |       |        |      |        |        |      |       |            | Prep Typ                        | e: To  | tal/NA                 |
| Analysis Batch: 36349   |             |        |           |               |       |        |      |        |        |      |       |            | Prep B                          |        |                        |
| -   |             | мв и   | ИВ        |               |       |        |      |        |        |      |       |            |                                 |        |                        |
| Analyte   | Re          | sult ( | Qualifier |               | RL    | I      | MDL  | Unit   |        | D    | Pr    | epared     | Analyz                          | ed     | Dil Fac                |
| 1,2-Dibromoethane (EDB)   |             | ND     |           |               | 0.050 | 0      | .035 | ug/Kg  |        | _    | 06/01 | 1/22 15:31 | 06/01/22                        | 6:13   | 1                      |
| Lab Sample ID: LCS 590-3  | 6348/3-A    |        |           |               |       |        |      |        | Cli    | ent  | San   | nple ID:   | Lab Con                         | trol S | ample                  |
| Matrix: Solid   |             |        |           |               |       |        |      |        |        |      |       |            | Prep Typ                        | e: To  | tal/NA                 |
| Analysis Batch: 36349   |             |        |           |               |       |        |      |        |        |      |       |            | Prep B                          | atch:  | 36348                  |
| -   |             |        |           | Spike         |       | LCS    | LCS  |        |        |      |       |            | %Rec                            |        |                        |
| Analyte   |             |        |           | Added         |       | Result | Qua  | lifier | Unit   |      | D     | %Rec       | Limits                          |        |                        |
| 1,2-Dibromoethane (EDB)   |             |        |           | 1.00          |       | 1.14   |      |        | ug/Kg  |      | _     | 114        | 60 - 140                        |        |                        |
| Lab Sample ID: 590-17643-<br>Matrix: Solid<br>Analysis Batch: 36349 | 1 <b>MS</b> |        |           |               |       |        |      |        | Client | t Sa | mpl   | le ID: S\  | /E-Soil-M<br>Prep Typ<br>Prep B | e: To  | tal/NA                 |
|   | Sample      | Samp   | ole       | Spike         |       | MS     | MS   |        |        |      |       |            | %Rec                            |        |                        |
| Analyte   | Result      | Quali  | fier      | Added         |       | Result | Qua  | lifier | Unit   |      | D     | %Rec       | Limits                          |        |                        |
|   | ND          |        |           | 4 0 0         |       | 0.793  |      |        | ug/Kg  |      | Å     | 74         | 60 - 140                        |        |                        |
| 1,2-Dibromoethane (EDB)   | ND          |        |           | 1.08          |       | 0.793  |      |        | ug/itg |      | Ŧ     |            | 00 - 140                        |        |                        |
| 1,2-Dibromoethane (EDB)<br>Lab Sample ID: 590-17643-                |             |        |           | 1.08          |       | 0.793  |      |        | 0 0    | t Sa |       |            | /E-Soil-M                       | ay31-  | -1Pre1                 |
| -   |             |        |           | 1.08          |       | 0.793  |      |        | 0 0    | t Sa |       |            |                                 | -      |                        |
| <br>Lab Sample ID: 590-17643-                                       |             |        |           | 1.08          |       | 0.793  |      |        | 0 0    | t Sa |       |            | /E-Soil-M                       | e: To  | tal/NA                 |
| Lab Sample ID: 590-17643<br>Matrix: Solid                           |             | Samp   | ble       | 1.08<br>Spike |       | MSD    | MSD  | )      | 0 0    | t Sa |       |            | /E-Soil-M<br>Prep Typ           | e: To  | tal/NA                 |
| Lab Sample ID: 590-17643<br>Matrix: Solid                           | 1 MSD       | •      |           |               |       |        | -    |        | 0 0    | t Sa |       |            | /E-Soil-M<br>Prep Typ<br>Prep B | e: To  | tal/NA<br>36348<br>RPD |

Run

Dil

Factor

Initial

Amount

Final

Amount

Batch

Number

Prepared

or Analyzed

Analyst

Lab

Prep Type

Prep Type

Total/NA

Total/NA

Prep Type

Prep Type

Total/NA

Total/NA

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

### Client Sample ID: SVE-Soil-May31-1Pre1 Date Collected: 05/31/22 15:50 Date Received: 06/01/22 08:20

Batch

Method

Batch

Type

8

#### 36336 06/01/22 10:58 TAL SPK Analysis Moisture M1V 1 Client Sample ID: SVE-Soil-May31-1Pre1 Lab Sample ID: 590-17643-1 Date Collected: 05/31/22 15:50 Matrix: Solid Date Received: 06/01/22 08:20 Percent Solids: 88.8 Batch Batch Dil Initial Final Batch Prepared Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 8011 10.50 g 2 mL 36348 06/01/22 15:31 NMI TAL SPK Analysis 8011 36349 06/01/22 17:02 NMI TAL SPK 1 Lab Sample ID: 590-17643-2 Client Sample ID: SVE-Soil-May31-1Pre2 Date Collected: 05/31/22 16:10 Matrix: Solid Date Received: 06/01/22 08:20 Dil Initial Final Batch Batch Batch Prepared Method or Analyzed Type Run Factor Amount Amount Number Analyst Lab 36336 06/01/22 10:58 M1V TAL SPK Analysis Moisture Client Sample ID: SVE-Soil-May31-1Pre2 Lab Sample ID: 590-17643-2 Date Collected: 05/31/22 16:10 Matrix: Solid Date Received: 06/01/22 08:20 Percent Solids: 89.4 Batch Batch Dil Initial Final Batch Prepared Method Amount Number or Analyzed Туре Run Factor Amount Analyst Lab 8011 36348 06/01/22 15:31 NMI TAL SPK Prep 10.82 g 2 mL Analvsis 8011 36349 06/01/22 17:51 NMI TAL SPK 1 Client Sample ID: SVE-Soil-May31-1Pre3 Lab Sample ID: 590-17643-3 Date Collected: 05/31/22 16:05 Matrix: Solid Date Received: 06/01/22 08:20 Batch Batch Dil Initial Final Batch Prepared Type Method Run Factor Amount Amount Number or Analyzed Analyst Lab 36336 06/01/22 10:58 M1V TAL SPK Analysis Moisture 1 Client Sample ID: SVE-Soil-May31-1Pre3 Lab Sample ID: 590-17643-3 Date Collected: 05/31/22 16:05 Matrix: Solid Date Received: 06/01/22 08:20 Percent Solids: 89.0 Batch Batch Dil Initial Final Batch Prepared Type Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 8011 2 mL 36348 06/01/22 15:31 NMI TAL SPK 10.58 g 06/01/22 18:07 NMI 8011 Analysis 1 36349 TAL SPK

### Client Sample ID: SVE-Soil-May31-1DUP Date Collected: 05/31/22 15:30 Date Received: 06/01/22 08:20

|           | 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      |         |        | 36336  | 06/01/22 10:58 | M1V     | TAL SPK |

**Eurofins Spokane** 

Lab Sample ID: 590-17643-4

Matrix: Solid

| <b>Client Sam</b>  | ple ID: SVE   | E-Soil-May   | 31-1DUP    |               |                              |                         | L                                      | ab Sample  | ID: 590                                | -17643-4                                       |
|--|---|--|------------|---------------|------------------------------|-------------------------|--|--|--|--|
| Date Collecte  | d: 05/31/22 1   | 5:30   |            |               |                              |                         |  | _  | Ма                                     | trix: Solic                                    |
| Date Receive   | d: 06/01/22 0   | 8:20   |            |               |                              |                         |  | P  | ercent S                               | 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   |            |               | 10.25 g                      | 2 mL                    | 36348                                  | 06/01/22 15:31   | NMI                                    | TAL SPK  |
| Total/NA   | Analysis  | 8011   |            | 1             |                              |                         | 36349                                  | 06/01/22 18:24   | NMI                                    | TAL SPK  |
| Client Sam   | ple ID: SVE   | E-Soil-May   | 31-1Pre4   |               |                              |                         | L                                      | ab Sample  | ID: 590                                | -17643-  |
| Date Collecte  | -   | -  |            |               |                              |                         |  |  |  | trix: Solic                                    |
| Date Receive   | d: 06/01/22 0   | 8:20   |            |               |                              |                         |  |  |  |  |
| -  | 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             |                              |                         | 36336                                  | 06/01/22 10:58   | M1V                                    | TAL SPK  |
| Client Sam   | nle ID <sup>.</sup> SVF   | -Soil-May  | 31-1Pre4   |               |                              |                         | 1                                      | ab Sample  | ID: 590                                | -17643-5                                       |
|  | -   | -  | 01-11104   |               |                              |                         | -                                      |  |  |  |
| DATE CONFCIE   | d' 05/31/22 1   |  |            |               |                              |                         |  |  | Ma                                     | trix <sup>.</sup> Solic                        |
|  | d: 05/31/22 1<br>d: 06/01/22 0  |  |            |               |                              |                         |  | Р  |  |  |
| Date Conecte   | d: 06/01/22 0   | 8:20   |            |               |                              |                         |  |  |  |  |
| Date Receive   | d: 06/01/22 0<br>Batch  | 8:20<br>Batch  |            | Dil           | Initial                      | Final                   | Batch                                  | Prepared   | ercent S                               | olids: 89.3                                    |
| Prep Type  | d: 06/01/22 0<br>Batch<br>Type  | 8:20<br>Batch<br>Method  | Run        | Dil<br>Factor | Amount                       | Amount                  | Number                                 | Prepared or Analyzed   | ercent S<br>Analyst                    | olids: 89.3                                    |
| Prep Type<br>Total/NA  | d: 06/01/22 0<br>Batch<br>Type<br>Prep  | 8:20<br>Batch<br>Method<br>8011  | Run        | Factor        |                              |                         | <b>Number</b><br>36348                 | Prepared<br>or Analyzed<br>06/01/22 15:31  | ercent S<br>Analyst<br>NMI             | Lab<br>TAL SPK                                 |
| Date Receive<br>Prep Type  | d: 06/01/22 0<br>Batch<br>Type  | 8:20<br>Batch<br>Method  | Run        |               | Amount                       | Amount                  | Number                                 | Prepared or Analyzed   | ercent S<br>Analyst<br>NMI             | olids: 89.3                                    |
| Prep Type<br>Total/NA  | d: 06/01/22 0 Batch Type Prep Analysis  | 8:20<br>Batch<br>Method<br>8011<br>8011                                      | Run        | Factor        | Amount                       | Amount                  | Number<br>36348<br>36349               | Prepared<br>or Analyzed<br>06/01/22 15:31  | ercent S<br>Analyst<br>NMI<br>NMI      | Lab<br>TAL SPK<br>TAL SPK                      |
| Prep Type<br>Total/NA<br>Total/NA  | d: 06/01/22 0 Batch Type Prep Analysis Ple ID: Trip   | 8:20<br>Batch<br>Method<br>8011<br>8011<br>0 Blanks                          | <u>Run</u> | Factor        | Amount                       | Amount                  | Number<br>36348<br>36349               | Prepared<br>or Analyzed<br>06/01/22 15:31<br>06/01/22 18:40                          | Analyst<br>NMI<br>NMI<br>ID: 590       | Lab<br>TAL SPK<br>TAL SPK<br>TAL SPK           |
| Prep Type<br>Total/NA<br>Total/NA<br>Client Sam                                  | d: 06/01/22 0<br>Batch<br>Type<br>Prep<br>Analysis<br>ple ID: Trip<br>d: 05/31/22 0                           | 8:20<br>Batch<br>Method<br>8011<br>8011<br>0 Blanks<br>0:00                  | Run        | Factor        | Amount                       | Amount                  | Number<br>36348<br>36349               | Prepared<br>or Analyzed<br>06/01/22 15:31<br>06/01/22 18:40                          | Analyst<br>NMI<br>NMI<br>ID: 590       | Lab<br>TAL SPK<br>TAL SPK<br>TAL SPK           |
| Date Receive<br>Prep Type<br>Total/NA<br>Total/NA<br>Client Sam<br>Date Collecte | d: 06/01/22 0<br>Batch<br>Type<br>Prep<br>Analysis<br>ple ID: Trip<br>d: 05/31/22 0                           | 8:20<br>Batch<br>Method<br>8011<br>8011<br>0 Blanks<br>0:00                  | <u>Run</u> | Factor        | Amount                       | Amount                  | Number<br>36348<br>36349               | Prepared<br>or Analyzed<br>06/01/22 15:31<br>06/01/22 18:40                          | Analyst<br>NMI<br>NMI<br>ID: 590       | Lab<br>TAL SPK<br>TAL SPK<br>TAL SPK           |
| Prep Type<br>Total/NA<br>Total/NA<br>Client Sam<br>Date Collecte<br>Date Receive | d: 06/01/22 0<br>Batch<br>Type<br>Prep<br>Analysis<br>ple ID: Trip<br>d: 05/31/22 0<br>d: 06/01/22 0          | 8:20<br>Batch<br>Method<br>8011<br>8011<br>0 Blanks<br>00:00<br>8:20         | Run Run    | Factor        | <b>Amount</b><br>10.42 g     | Amount<br>2 mL          | Number<br>36348<br>36349               | Prepared<br>or Analyzed<br>06/01/22 15:31<br>06/01/22 18:40<br>ab Sample             | Analyst<br>NMI<br>NMI<br>ID: 590       | Lab<br>TAL SPK<br>TAL SPK<br>TAL SPK           |
| Date Receive<br>Prep Type<br>Total/NA<br>Total/NA<br>Client Sam<br>Date Collecte | d: 06/01/22 0<br>Batch<br>Type<br>Prep<br>Analysis<br>ple ID: Trip<br>d: 05/31/22 0<br>d: 06/01/22 0<br>Batch | 8:20<br>Batch<br>Method<br>8011<br>8011<br>0 Blanks<br>0:00<br>8:20<br>Batch |            | Factor 1      | Amount<br>10.42 g<br>Initial | Amount<br>2 mL<br>Final | Number<br>36348<br>36349<br>L<br>Batch | Prepared<br>or Analyzed<br>06/01/22 15:31<br>06/01/22 18:40<br>ab Sample<br>Prepared | Analyst<br>NMI<br>NMI<br>ID: 590<br>Ma | TAL SPK<br>TAL SPK<br>-17643-6<br>htrix: Solic |

Lab Chronicle

Client: HDR Inc

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

6/2/2022 (Rev. 1)

Job ID: 590-17643-1

### Laboratory: Eurofins Spokane

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

| uthority                                  |                                     | rogram                     | Identification Number                     | Expiration Date                          |
|---|-------------------------------------|----------------------------|---|--|
| Washington                                | S                                   | tate                       | C569                                      | 01-06-23                                 |
| The following analytes                    | s are included in this rep          | ort, but the laboratory is | 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<br>Analysis Method | offer certification.<br>Prep Method | Matrix                     | Analyte                                   |  |
| 0,  |                                     | Matrix<br>Solid            | Analyte Percent Moisture                  |  |

Eurofins Spokane

# **Method Summary**

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

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

### **Protocol References:**

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

Edior no oponano

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

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

# **Chain of Custody Record**

😽 eurofins

Environment Testing America

| Client Information  | Sampler                 |                  |              |  |                   |                                     | PM:<br>ngton, Randee E   |                     |                     |           |      |          |         | lo(s):         |           |              | COC No:<br>590-7430-2162.     | 1  |             |
|---|-------------------------|------------------|--------------|--|-------------------|-------------------------------------|--------------------------|---------------------|---------------------|-----------|------|----------|---------|----------------|-----------|--------------|-------------------------------|--|-------------|
| Client Contact:   | Phone:                  | ,                |              | E-M  | ail:              |                                     |                          |                     |                     |           | Sta  | te of Or | gin:    |                |           |              | Page:                         |  |             |
| Jered Newcomb<br>Company  | 509-899-4371            |                  | PWSID:       | Rar  | ndee./            | Arring                              | ton@                     | et.eur              | ofinsus             | s.com     |      |          |         |                |           |              | Page 1 of                     |  |             |
| HDR Inc   |                         |                  | PWSID:       |  |                   |                                     |                          |                     | Ana                 | lysis R   | eque | ested    |         |                |           |              | Job #:                        |  |             |
| Address.<br>835 N Post St. Ste. 101   | Due Date Requeste       | əd:              |              |  |                   |                                     | Τ                        |                     |                     |           | Ī    |          |         |                |           | 10000        | Preservation Cod              |  |             |
| City:   | TAT Requested (da       |                  |              |  | -                 |                                     |                          |                     |                     |           |      |          |         |                |           | -            | A HCL<br>B NaOH               | M Hexane<br>N None   |             |
| Spokane<br>State, Zip:  |                         | 24 ho            | ur           |  |                   |                                     |                          |                     |                     |           |      |          |         |                |           | and a second | C Zn Acetate<br>D Nitric Acid | O AsNaO2<br>P Na2O4S   |             |
| WA, 99202   | Compliance Projec       | t: A Yes         | Δ Νο         |  | ] [               |                                     |                          |                     |                     |           |      |          |         |                |           |              | E NaHSO4<br>F MeOH            | Q Na2SO3<br>R Na2S2O3  | -           |
| Phone:<br>509-899-4371  | PO #:<br>Purchase Order | Requested        |              |  |                   |                                     |                          |                     |                     |           |      |          |         |                |           |              | G Amchior<br>H Ascorbic Acid  | S H2SO4<br>T TSP Dodec   | obudrata    |
| Email:<br>Jered newcomb@bdrinc.com/as/kc_All=_QL_lcie                               | 14/0 /                  |                  |              |  | or No             | or No)                              |                          |                     |                     |           |      |          |         |                |           |              | I Ice<br>J DI Water           | U Acetone<br>V MCAA  | anyonate    |
| Jered. newcomb@hdrinc.com/Tyler.Allen@hdrinc.com<br>Project Name:<br>Simplot Warden | Project #:<br>59002373  | oject #:         |              |  |                   |                                     |                          |                     |                     |           |      |          |         |                |           | ners         | K EDTA<br>L EDA               | W pH 4-5   | <b>14</b> A |
| Simplot Warden Site:  |                         | 9002373<br>sow#: |              |  |                   |                                     | 8                        | ⊢                   |                     |           |      |          |         |                | ł         | conta        |                               | Z other (speci   | (iy)        |
| Warden WA   | 550₩#:                  |                  |              |  | Egg               | rm MS/MSD (Yes<br>Standard Soil TOC |                          | CONTENT             |                     |           |      |          |         |                |           | of ci        | Other                         |  |             |
|   |                         |                  |              | atrix<br>'=water,  | bere              | alson<br>dard                       |                          | õ                   |                     |           |      |          |         |                |           | ber          |                               |  |             |
|   |                         |                  | Type `s      | =solid,<br>vaste/oli   | Filte             | Star                                |                          | TURE                |                     |           |      |          |         |                |           | Num          |                               |  |             |
| Sample Identification   | Sample Date             | Sample<br>Time   | (C=Comp, BT  | Tissue,<br>«Air)   | ield              | Pertorm<br>9060 Stai                | 8011                     | MOIS                |                     |           |      |          |         |                |           | Total        | Special In                    | structions/N   | otas        |
|   |                         | $\sim$           | Preservation | the second s |                   | X N                                 | Settle becaused          | 4                   | in and in           |           |      |          |         |                |           | Ń            | Special III                   | SHUCHONS/N   | ole.        |
| SVE-Soil-May31 1Pre1  | 5/31/2022               | 1650             | G            | S  | N                 | γ ×                                 |                          | X                   |                     |           | Ī    |          |         |                | <u></u>   | (            |                               | the state of the s |             |
| SVE-Soil-May31 1Pre2  | 5/31/2022               | 160              | G            | S  | N                 | '  ×                                | ( x                      | X                   |                     |           |      |          |         |                |           |              |                               |  |             |
| SVE-Soil-May31 1Pre3  | 5/31/2022               | 1605             | G            | S  | N                 | ×                                   | < x                      | x                   |                     |           |      |          |         |                |           |              |                               |  |             |
| SVErSoit-May31-1Pred  |                         | 1605             |              | <del>.</del>   |                   | >                                   | ( ×                      |                     | -m                  |           |      |          |         |                |           | 1            |                               |  |             |
| SVE-Soil-May31 1DUP   | 5/31/2022               | 1530             | G            | s  | N                 | ×                                   | < x                      | x                   |                     |           |      | -        |         |                |           |              |                               |  |             |
| SVE-Joll-May31-1Pr24<br>Trip Blanks   | 5/31/2022               | 1620             | G            | 5  | N                 | 7                                   | $\langle \times \rangle$ | X                   |                     |           |      | -        |         |                |           |              |                               |  |             |
| Irin Blunks   | 5/31/2022               | -                |              | 5  | N                 | >                                   | < 7                      | ( Y.                |                     |           |      | -        | 590-    | 17643          | Chain     |              | Custody                       |  |             |
|   |                         |                  |              |  | Π                 |                                     |                          |                     |                     |           |      | · _      | 1       | <u>11040</u>   |           | 1 3          |                               |  |             |
|   |                         |                  |              |  |                   |                                     |                          |                     |                     |           |      |          |         |                | 1         | 0.000        |                               |  |             |
|   |                         |                  |              |  |                   |                                     | +                        |                     |                     |           |      |          |         |                |           |              |                               |  |             |
|   |                         | ~                |              |  | ╉╋                |                                     | +                        | +                   |                     |           | +    | _        |         |                |           |              |                               | <del></del>  |             |
| Possible Hazard Identification  | <u>.</u>                |                  |              |  |                   |                                     |                          |                     | 1/ 0 50             |           |      |          | if car  |                |           |              | ed longer than 1              | month  |             |
|   | on B 🛄 Unkn             |                  | Radiological |  | ľ                 |                                     |                          | n To (              |                     | e may D   |      | osal B   |         |                |           |              | ive For                       | Months   |             |
| Deliverable Requested: I II III IV Other (specify)                                  |                         |                  | lauloiogicai |  | s                 |                                     |                          |                     |                     | Requiren  |      |          | y Lab   |                |           | 11.67#       |                               | Wonuts   |             |
| Emply Kit Relinquished by   |                         | Date:            |              |  | Time              | e:                                  |                          |                     |                     |           |      | Metho    | od of S | hipment:       |           |              |                               |  |             |
| Relinguished by:<br>Veral New wind MU   | Date/Time:<br>5/31/22   | 17.05            | Com          | ĎR   |                   | Re                                  | ceived                   | by:                 | Z                   |           |      |          | [       | Date/Tim       | e:<br>5/3 | 1/3          | 27 1705                       | Company<br>14D   | R           |
| Relinquished by   | Date/Time               |                  | Com          |  | -                 | Re                                  | ceived                   | by:                 | 1 Bin               |           |      |          | ī       |                |           |              | 0820                          | Company<br>EVEOFINS S  | BROKANE     |
| Relinguished by:  | Date/Time:              | 00               |              | any  |                   |                                     | LRDC<br>ceived           |                     | {                   | NICK      |      |          |         | 0¢<br>Date/Tim |           |              | 0120                          | EttoFins -<br>Company  | 7 * 1**     |
| Qualady Scale Islaaty Qualady Scale Va  |                         |                  |              |  |                   | -                                   |                          |                     |                     |           | 47   |          |         |                |           |              |                               |  |             |
| Custody Seals Intact: Custody Seal No.<br>Δ Yes Δ No                                |                         |                  | Pa           | ae 12  | 2 of <sup>2</sup> | 13 <sup>Cox</sup>                   | oler Te<br>23            | mperatu<br><i>と</i> | не(s) °C<br>Сот ( 7 | and Other | Y C  | (S:<br>- |         |                |           |              |                               | 6/2/2022   | (Rev 1      |

### Login Sample Receipt Checklist

### Client: HDR Inc

### Login Number: 17643 List Number: 1 Creator: Vaughan, Madison 1

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

Job Number: 590-17643-1

List Source: Eurofins Spokane

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# Environment Testing America

# **ANALYTICAL REPORT**

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

## Laboratory Job ID: 590-17700-1

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

..... 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.

Authorized for release by: 6/7/2022 2:14:27 PM

# **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     | 2  |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Definitions           | 5  |
| Client Sample Results | 6  |
| QC Sample Results     | 7  |
| Chronicle             | 8  |
| Certification Summary | 10 |
| Method Summary        | 11 |
| Chain of Custody      | 12 |
| Receipt Checklists    | 13 |
|                       |    |

### Job ID: 590-17700-1

### Laboratory: Eurofins Spokane

### Narrative

### Receipt

The samples were received on 6/6/2022 10:40 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 3.7° C.

### **Receipt Exceptions**

The following sample was listed on the Chain of Custody (COC); however, no sample was received: Trip Blank (590-17700-6).

### 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: 590-17700-1

| Lab Sample ID | Client Sample ID      | Matrix | Collected      | Received       |
|---------------|-----------------------|--------|----------------|----------------|
| 590-17700-1   | SVE-Soil-June5-1Post1 | Solid  | 06/05/22 12:59 | 06/06/22 10:40 |
| 590-17700-2   | SVE-Soil-June5-1Post2 | Solid  | 06/05/22 13:23 | 06/06/22 10:40 |
| 590-17700-3   | SVE-Soil-June5-1Post3 | Solid  | 06/05/22 13:47 | 06/06/22 10:40 |
| 590-17700-4   | SVE-Soil-June5-1Post4 | Solid  | 06/05/22 14:15 | 06/06/22 10:40 |
| 590-17700-5   | SVE-Soil-June5-Dup2   | Solid  | 06/05/22 13:34 | 06/06/22 10:40 |

# **Definitions/Glossary**

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

Job ID: 590-17700-1

| Glossary       |   |   |
|----------------|---|---|
| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 | 3 |
| ¤              | 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   | ວ |
| 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)   |   |
| TEA            |   |   |

TEQToxicity Equivalent Quotient (Dioxin)TNTCToo Numerous To Count

Eurofins Spokane

# **Client Sample Results**

Client: HDR Inc

Job ID: 590-17700-1

| Client Sample ID: SVE-Soil-June5-1Post1         Lab Sample ID: 590-17700-1           Date Received: 06/05/22 12:59         Matrix: Solid           Analyto         Result Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil Fac           1.2-Dibromoethane (EDB)         ND         0.054         0.038         ug/Kg         D         Prepared         Analyzed         Dil Fac           1.2-Dibromoethane (EDB)         ND         0.054         0.038         ug/Kg         D         Prepared         Analyzed         Dil Fac           1.2-Dibromoethane (EDB)         ND         0.054         0.038         ug/Kg         D         Prepared         Analyzed         Dil Fac           1.2-Dibromoethane (EDB)         ND         0.054         0.038         ug/Kg         D         Prepared         Analyzed         Dil Fac           1.2-Dibromoethane (EDB)         ND         0.054         0.038         ug/Kg         D         Prepared         Analyzed         Dil Fac           1.2-Dibromoethane (EDB)         ND         0.054         0.038         ug/Kg         D         Prepared         Analyzed         Dil Fac           1.2-Dibromoethane (EDB)         ND         0.053         0.037  | Project/Site: Simplot Warden   |         |               |       |       |        |   |                | JOD ID. 590-   | 17700-1  |
|---|--------------------------------|---------|---------------|-------|-------|--------|---|----------------|----------------|----------|
| AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil Fac1.2-Dibromoethane (EDB)ND0.0540.0540.038ug/Kg00607/22 09:120607/22 10:230101Client Sample ID: SVE-Soil-June5-1Post2Lab Sample ID: 590-17700-2Matrix: SolidDate Received: 06/06/22 10:40ResultQualifierRLMDLUnitDPreparedAnalyzed01Percent Solids: 91.4Method: 8011 - EDBND0.0540.038ug/Kg006/07/22 09:1206/07/22 11:1101Percent Solids: 90.8Client Sample ID: SVE-Soil-June5-1Post3Lab Sample ID: 590-17700-3Matrix: SolidPercent Solids: 90.8Matrix: SolidDate Collected: 06/05/22 13:47ND0.0530.037ug/Kg006/07/22 09:1206/07/22 11:28011.2-Dibromoethane (EDB)ND0.0530.037ug/Kg006/07/22 09:1206/07/22 11:280111.2-Dibromoethane (EDB)ND0.0530.037ug/Kg006/07/22 09:1206/07/22 11:2811.2-Dibromoethane (EDB)ND0.0530.037ug/Kg006/07/22 09:1206/07/22 11:2811.2-Dibromoethane (EDB)ND0.0520.037ug/Kg006/07/22 09:1206/07/22 11:2811.2-Dibromoethane (EDB)ND0.0520.037ug/Kg006/07/22 09:1206/07/22 11:2811.2-Dibromoethane (EDB)ND0.052<   | Date Collected: 06/05/22 12:59 | June5-1 | Post1         |       |       |        | L |                | Matrix         | x: Solid |
| Client Sample ID: SVE-Soil-June5-1Post2       Lab Sample ID: 590-17700-2         Date Collected: 06/05/22 13:23       Matrix: Solid         Date Received: 06/06/22 10:40       Percent Solids: 91.4         Method: 8011 - EDB       ND       0.054       MDL       Unit       D       Prepared       Analyzed       Dil Fac         1.2-Dibromoethane (EDB)       ND       0.054       MDL       Unit       Unit       D       Prepared       Analyzed       Dil Fac         1.2-Dibromoethane (EDB)       ND       0.053       0.037       Unit       D       Prepared       Analyzed       Dil Fac         Analyte       Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac         Analyte       Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac         1.2-Dibromoethane (EDB)       ND       0.053       0.037       Unit       D       Prepared       Analyzed       Dil Fac         1.2-Dibromoethane (EDB)       ND       0.052       0.037       Unit       D       Prepared       Analyzed       Dil Fac         1.2-Dibromoethane (EDB)       ND       0.052       0.037       <   | Analyte                        |         | Qualifier     |       |       |        |   | <u> </u>       |                |          |
| Date Collected: 06/05/22 13:23       Matrix: Solid         Date Received: 06/06/22 10:40       Percent Solids: 91.4         Method: 8011 - EDB       ND       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dill Fac         1.2-Dibromoethane (EDB)       ND       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dill Fac         1.2-Dibromoethane (EDB)       ND       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dill Fac         Analyte       Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dill Fac         Analyte       Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dill Fac         Analyte       ND       ND       0.053       0.037       Ug/Kg       06/07/22 09:12       06/07/22 11:28       Dill Fac         Client Sample ID: SVE-Soil-June5-1Post4       Lab Sample ID: 590-17700-4       Matrix: Solid       Percent Solids: 89.9         Method: 8011 - EDB       ND       0.052       0.037       Unit       D       Prepared       Analyzed       Dil Fac <tr< td=""><td></td><td></td><td><b>D</b> = 10</td><td>0.034</td><td>0.050</td><td>ug/itg</td><td></td><td></td><td></td><td></td></tr<>   |                                |         | <b>D</b> = 10 | 0.034 | 0.050 | ug/itg |   |                |                |          |
| AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil Fac1.2-Dibromoethane (EDB)NDND0.0540.038ug/Kg $\odot$ 06/07/22 09:1206/07/22 11:1111Client Sample ID: SVE-Soil-June5-1Post3Lab Sample ID: 590-17700-3Matrix: SolidMatrix: SolidDate Collected: 06/05/22 13:47Matrix:Matrix:Solid: 90.8Date Received: 06/06/22 10:40Result QualifierRLMDLUnitDPreparedAnalyzedDil FacAnalyteResult QualifierNDND0.0530.037ug/Kg $\odot$ PreparedAnalyzedDil Fac1.2-Dibromoethane (EDB)NDND0.0530.037ug/Kg $\odot$ PreparedAnalyzedDil FacClient Sample ID: SVE-Soil-June5-1Post4Lab Sample ID: 590-17700-4Matrix: SolidNatrix: SolidNatrix: SolidDate Received: 06/06/22 10:40ND0.0520.037ug/Kg $\bigcirc$ PreparedAnalyzedDil FacMethod: 8011 - EDBNDND0.0520.037ug/Kg $\bigcirc$ PreparedAnalyzedDil FacAnalyteResult QualifierND0.052MDLUnitDPreparedAnalyzedDil Fac12-Dibromoethane (EDB)NDND0.0520.037Ug/Kg $\bigcirc$ PreparedAnalyzedDil FacClient Sample ID: SVE-Soil-June5-Dup2Lab Sample ID: S90-17700-5Matrix: SolidNatrix: SolidNatrix: Solid  | Date Collected: 06/05/22 13:23 | June5-1 | Post2         |       |       |        |   |                | Matrix         | x: Solid |
| Client Sample ID: SVE-Soil-June5-1Post3       Lab Sample ID: 590-17700-3         Date Collected: 06/05/22 13:47       Matrix: Solid         Date Received: 06/06/22 10:40       Percent Solids: 90.8         Method: 8011 - EDB       ND         Analyte       Result       Qualifier         1.2-Dibromoethane (EDB)       ND         Olient Sample ID: SVE-Soil-June5-1Post4       Lab Sample ID: 590-17700-4         Date Received: 06/05/22 14:15       Lab Sample ID: 590-17700-4         Method: 8011 - EDB       Matrix: Solid         Analyte       Result       Qualifier         1,2-Dibromoethane (EDB)       ND       0.052         Method: 8011 - EDB       Matrix: Solid         Analyte       Result       Qualifier         1,2-Dibromoethane (EDB)       ND       0.052         Method: 8011 - EDB       Result       Qualifier         Analyte       Result       Qualifier         1,2-Dibromoethane (EDB)       ND       0.052         ND       0.052       0.037       D         OB/07/22 11:44       Dil Fac         1,2-Dibromoethane (EDB)       ND       0.052         Client Sample ID: SVE-Soil-June5-Dup2       Lab Sample ID: 590-17700-5         Date Collected: 06/05/22 13:34   |                                | Result  | Qualifier     | RL    | MDL   | Unit   | D | Prepared       | Analyzed       | Dil Fac  |
| Date Collected: 06/05/22 13:47       Matrix: Solid         Date Received: 06/06/22 10:40       Percent Solids: 90.8         Method: 8011 - EDB       Analyte       Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac         1,2-Dibromoethane (EDB)       ND       0.053       0.037       ug/Kg       06/07/22 09:12       Analyzed       Dil Fac         Client Sample ID: SVE-Soil-June5-1Post4       Lab Sample ID: 590-17700-4         Date Received: 06/05/22 14:15       Matrix: Solid         Date Received: 06/06/22 10:40       Percent Solids: 89.9         Method: 8011 - EDB       Result       Qualifier         Analyte       Result       Qualifier         1,2-Dibromoethane (EDB)       ND       0.052       0.037       ug/Kg       D       Prepared       Analyzed       Dil Fac         1,2-Dibromoethane (EDB)       ND       0.052       0.037       ug/Kg       D       Prepared       Analyzed       Dil Fac         1,2-Dibromoethane (EDB)       ND       0.052       0.037       ug/Kg       D       Prepared       Analyzed       Dil Fac         1,2-Dibromoethane (EDB)       ND       0.052       0.037       Unit       D       Prepared <t< td=""><td>1,2-Dibromoethane (EDB)</td><td>ND</td><td></td><td>0.054</td><td>0.038</td><td>ug/Kg</td><td>¢</td><td>06/07/22 09:12</td><td>06/07/22 11:11</td><td>1</td></t<> | 1,2-Dibromoethane (EDB)        | ND      |               | 0.054 | 0.038 | ug/Kg  | ¢ | 06/07/22 09:12 | 06/07/22 11:11 | 1        |
| 1,2-Dibromoethane (EDB)       ND       0.053       0.037       ug/Kg       is       06/07/22 09:12       06/07/22 11:28       1         Client Sample ID: SVE-Soil-June5-1Post4         Date Collected: 06/05/22 14:15       Matrix: Solid         Date Received: 06/06/22 10:40       Percent Solids: 89.9         Method: 8011 - EDB       Result       Qualifier         Analyte       Result       Qualifier         1,2-Dibromoethane (EDB)       ND       0.052         ND       0.052       0.037       Unit       D         Prepared       Analyzed       Dil Fac         1,2-Dibromoethane (EDB)       ND       0.052       0.037       Unit       Unit       D       O6/07/22 09:12       Analyzed       Dil Fac         Client Sample ID: SVE-Soil-June5-Dup2       Lab Sample ID: 590-17700-5       Lab Sample ID: 590-17700-5       Matrix: Solid         Date Received: 06/06/22 10:40       Matrix: Solid       Percent Solids: 90.8         Method: 8011 - EDB       Result Qualifier       RL       MDL Unit       D       Prepared       Analyzed       Dil Fac         Analyte       Result Qualifier       RL       MDL Unit       D       Prepared       Analyzed       Dil Fac  | Date Received: 06/06/22 10:40  |         |               |       |       |        |   |                |                |          |
| Client Sample ID: SVE-Soil-June5-1Post4       Lab Sample ID: 590-17700-4         Date Collected: 06/05/22 14:15       Matrix: Solid         Date Received: 06/06/22 10:40       Percent Solids: 89.9         Method: 8011 - EDB       Result         Analyte       Result         1,2-Dibromoethane (EDB)       ND         0.052       0.037         ug/Kg       06/07/22 09:12         06/07/22 09:12       06/07/22 11:44         1       Client Sample ID: SVE-Soil-June5-Dup2         Date Received: 06/05/22 13:34       Matrix: Solid         Date Received: 06/06/22 10:40       Percent Solids: 90.8         Method: 8011 - EDB       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac         Method: 8011 - EDB       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac  |                                |         | Qualifier     |       |       |        |   |                |                |          |
| AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil Fac1,2-Dibromoethane (EDB)NDND0.0520.037ug/Kg006/07/22 09:1206/07/22 11:441Client Sample ID: SVE-Soil-June5-Dup2Lab Sample ID: 590-17700-5Matrix: SolidDate Collected: 06/05/22 13:34Date Received: 06/06/22 10:40Method: 8011 - EDBAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil Fac   | Date Collected: 06/05/22 14:15 | June5-1 | Post4         |       |       |        | l |                | Matrix         | x: Solid |
| Client Sample ID: SVE-Soil-June5-Dup2       Lab Sample ID: 590-17700-5         Date Collected: 06/05/22 13:34       Matrix: Solid         Date Received: 06/06/22 10:40       Percent Solids: 90.8         Method: 8011 - EDB       Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac  | Analyte                        | Result  | Qualifier     |       |       |        | D | ·              |                | Dil Fac  |
| Date Collected: 06/05/22 13:34       Matrix: Solid         Date Received: 06/06/22 10:40       Percent Solids: 90.8         Method: 8011 - EDB       Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac   | 1,2-Dibromoethane (EDB)        | ND      |               | 0.052 | 0.037 | ug/Kg  | ¢ | 06/07/22 09:12 | 06/07/22 11:44 | 1        |
| Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac  | Date Collected: 06/05/22 13:34 | June5-D | )up2          |       |       |        | l |                | Matrix         | x: Solid |
|   |                                | Result  | Qualifier     | RL    | MDL   | Unit   | D | Prepared       | Analyzed       | Dil Fac  |
|   |                                |         |               |       |       |        |   |                |                |          |

Method: 8011 - EDB

| Lab Sample ID: MB 590-3641  | 1/2-A                                   |                     |                |                        |                 |               | CI        | ient Sam     | ole ID: Me  | thod              | Blank                             |
|---|---|---------------------|----------------|------------------------|-----------------|---------------|-----------|--------------|---|-------------------|-----------------------------------|
| Matrix: Solid   |   |                     |                |                        |                 |               |           |              | Prep Typ  |                   |                                   |
| Analysis Batch: 36412   |   |                     |                |                        |                 |               |           |              | Prep B  |                   |                                   |
|   |   | MB MB               |                |                        |                 |               |           |              | •   |                   |                                   |
| Analyte   | Re                                      | sult Qualifier      |                | RL I                   | MDL Unit        |               | D         | Prepared     | Analyz  | ed                | Dil Fac                           |
| 1,2-Dibromoethane (EDB)   |   | ND                  | 0.             | .050 0                 | .035 ug/K       | g             | 06/       | /07/22 09:12 | 06/07/22 0  | 9:50              | 1                                 |
| Lab Sample ID: LCS 590-364  | 11/3-A                                  |                     |                |                        |                 | Clie          | ent Sa    | ample ID:    | Lab Con   | trol Sa           | ample                             |
| Matrix: Solid   |   |                     |                |                        |                 |               |           |              | Prep Typ  |                   |                                   |
| Analysis Batch: 36412   |   |                     |                |                        |                 |               |           |              | Prep B  |                   |                                   |
|   |   |                     | Spike          | LCS                    | LCS             |               |           |              | %Rec  |                   |                                   |
| Analyte   |   |                     | Added          | Result                 | Qualifier       | Unit          | D         | %Rec         | Limits  |                   |                                   |
| 1,2-Dibromoethane (EDB)   |   |                     | 1.00           | 1.34                   |                 | ug/Kg         |           | 134          | 60 - 140  |                   |                                   |
|   |   |                     |                |                        |                 |               |           |              |   |                   |                                   |
| Lab Sample ID: 590-17700-1  | MS                                      |                     |                |                        |                 | Client        | Samr      | ole ID: SV   | E-Soil-Ju   | ne5-1             | Post1                             |
| Lab Sample ID: 590-17700-1  <br>Matrix: Solid   | MS                                      |                     |                |                        |                 | Client        | Samp      | ole ID: SV   |   |                   |                                   |
| Matrix: Solid   | MS                                      |                     |                |                        |                 | Client        | Samp      | ole ID: SV   | Prep Typ  | e: Tot            | tal/NA                            |
| Matrix: Solid   | MS<br>Sample                            | Sample              | Spike          | MS                     | MS              | Client        | Samp      | ole ID: SV   |   | e: Tot            | tal/NA                            |
| Matrix: Solid<br>Analysis Batch: 36412  | Sample                                  | Sample<br>Qualifier | Spike<br>Added |                        | MS<br>Qualifier | Client :      | Samp<br>D |              | Prep Typ<br>Prep B  | e: Tot            | tal/NA                            |
| Matrix: Solid<br>Analysis Batch: 36412<br>Analyte   | Sample                                  | •                   | •              |                        |                 |               |           | %Rec         | Prep Typ<br>Prep B<br>%Rec  | e: Tot            | tal/NA                            |
| Matrix: Solid<br>Analysis Batch: 36412<br>Analyte<br>1,2-Dibromoethane (EDB)  | Sample<br>Result<br>ND                  | •                   | Added          | Result                 |                 | Unit<br>ug/Kg | <b>D</b>  | <b>%Rec</b>  | Prep Typ<br>Prep B<br>%Rec<br>Limits<br>60 - 140                                    | e: Tot<br>atch: 3 | al/NA<br>36411                    |
| Matrix: Solid<br>Analysis Batch: 36412<br>Analyte<br>1,2-Dibromoethane (EDB)<br>Lab Sample ID: 590-17700-1 I                  | Sample<br>Result<br>ND                  | •                   | Added          | Result                 |                 | Unit<br>ug/Kg | <b>D</b>  | %Rec         | Prep Typ<br>Prep B<br>%Rec<br>Limits<br>60 - 140<br>E-Soil-Ju                       | ne5-1             | tal/NA<br>36411<br><br>Post1      |
| Matrix: Solid<br>Analysis Batch: 36412<br>Analyte<br>1,2-Dibromoethane (EDB)<br>Lab Sample ID: 590-17700-1 I<br>Matrix: Solid | Sample<br>Result<br>ND                  | •                   | Added          | Result                 |                 | Unit<br>ug/Kg | <b>D</b>  | <b>%Rec</b>  | Prep Typ<br>Prep B<br>%Rec<br>Limits<br>60 - 140<br>E-Soil-Ju<br>Prep Typ           | ne5-1             | al/NA<br>36411<br>Post1<br>tal/NA |
| Matrix: Solid<br>Analysis Batch: 36412<br>Analyte<br>1,2-Dibromoethane (EDB)<br>Lab Sample ID: 590-17700-1 I<br>Matrix: Solid | Sample<br>Result<br>ND                  | Qualifier           | Added          | Result                 | Qualifier       | Unit<br>ug/Kg | <b>D</b>  | <b>%Rec</b>  | Prep Typ<br>Prep B<br>%Rec<br>Limits<br>60 - 140<br>E-Soil-Ju                       | ne5-1             | al/NA<br>36411<br>Post1<br>tal/NA |
| Matrix: Solid<br>Analysis Batch: 36412<br>Analyte<br>1,2-Dibromoethane (EDB)<br>Lab Sample ID: 590-17700-1 I                  | Sample<br>Result<br>ND<br>MSD<br>Sample | Qualifier           | Added<br>1.06  | Result<br>0.933<br>MSD | Qualifier       | Unit<br>ug/Kg | <b>D</b>  | 9            | Prep Typ<br>Prep B<br>%Rec<br>Limits<br>60 - 140<br>E-Soil-Ju<br>Prep Typ<br>Prep B | ne5-1             | 26411<br>Post1<br>tal/NA<br>36411 |

Initial

Amount

Initial

Amount

10.28 g

Initial

Amount

Final

Amount

Final

Amount

2 mL

Final

Amount

Dil

1

Dil

1

Dil

1

Factor

Factor

Factor

Run

Run

Run

Date Collected: 06/05/22 12:59

Date Received: 06/06/22 10:40

Date Collected: 06/05/22 12:59

Date Received: 06/06/22 10:40

Date Collected: 06/05/22 13:23

Date Received: 06/06/22 10:40

Prep Type

Prep Type

Total/NA

Total/NA

Prep Type

Total/NA

Г

Total/NA

Batch

Туре

Analysis

Batch

Туре

Prep

Analysis

Batch

Type

Analysis

Client Sample ID: SVE-Soil-June5-1Post1

Client Sample ID: SVE-Soil-June5-1Post1

Client Sample ID: SVE-Soil-June5-1Post2

Batch

Method

Moisture

Batch

8011

8011

Batch

Method

Moisture

Method

#### Job ID: 590-17700-1 Lab Sample ID: 590-17700-1 Matrix: Solid Batch Prepared or Analyzed Number Analyst Lab 36397 06/06/22 11:22 NMI TAL SPK Lab Sample ID: 590-17700-1 Matrix: Solid Percent Solids: 90.4 Batch Prepared Number or Analyzed Analyst Lab 06/07/22 09:12 NMI 36411 TAL SPK 36412 06/07/22 10:23 NMI TAL SPK Lab Sample ID: 590-17700-2 Matrix: Solid Batch Prepared Number or Analyzed Analyst Lab 36397 06/06/22 11:22 NMI TAL SPK

| Client Sample ID: SVE-Soil-June5-1Post2 | Lab Sample ID: 590-17700-2 |
|---|----------------------------|
| Date Collected: 06/05/22 13:23          | Matrix: Solid              |
| Date Received: 06/06/22 10:40           | Percent Solids: 91.4       |
|   |                            |

|           | Batch    | Batch  |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 8011   |     |        | 10.19 g | 2 mL   | 36411  | 06/07/22 09:12 | NMI     | TAL SPK |
| Total/NA  | Analysis | 8011   |     | 1      |         |        | 36412  | 06/07/22 11:11 | NMI     | TAL SPK |

| Client Sample ID: SVE-Soil-June5-1Post3 |  |
|---|--|
| Date Collected: 06/05/22 13:47          |  |
| Date Received: 06/06/22 10:40           |  |

### Lab Sample ID: 590-17700-3 Matrix: Solid

Lab Sample ID: 590-17700-3

Lab Sample ID: 590-17700-4

ate Received: 06/06/22 10:40

| Prep Type | Batch<br>Type | Batch<br>Method | Run | Dil<br>Factor | Initial<br>Amount | Final<br>Amount | Batch<br>Number | Prepared<br>or Analyzed | Analyst | Lab     |
|-----------|---------------|-----------------|-----|---------------|-------------------|-----------------|-----------------|-------------------------|---------|---------|
| Total/NA  | Analysis      | Moisture        |     | 1             |                   |                 | 36397           | 06/06/22 11:22          | NMI     | TAL SPK |

### Client Sample ID: SVE-Soil-June5-1Post3 Date Collected: 06/05/22 13:47 Date Received: 06/06/22 10:40

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Matrix: Solid Percent Solids: 90.8

|           | Batch    | Batch  |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 8011   |     |        | 10.32 g | 2 mL   | 36411  | 06/07/22 09:12 | NMI     | TAL SPK |
| Total/NA  | Analysis | 8011   |     | 1      |         |        | 36412  | 06/07/22 11:28 | NMI     | TAL SPK |

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### Client Sample ID: SVE-Soil-June5-1Post4 Date Collected: 06/05/22 14:15 Date Received: 06/06/22 10:40

| _         | 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      |         |        | 36397  | 06/06/22 11:22 | NMI     | TAL SPK |

**Eurofins Spokane** 

Matrix: Solid

Initial

Amount

10.65 g

Initial

Amount

Final

Amount

2 mL

Final

Amount

Batch

36411

36412

Batch

Number

Number

Dil

1

Dil

Factor

Factor

Run

Run

Ргер Туре

Total/NA

Total/NA

Prep Type

### Client Sample ID: SVE-Soil-June5-1Post4 Date Collected: 06/05/22 14:15 Date Received: 06/06/22 10:40

Batch

8011

8011

Batch

Method

Method

Batch

Туре

Prep

Date Collected: 06/05/22 13:34

Date Received: 06/06/22 10:40

Analysis

Batch

Туре

Client Sample ID: SVE-Soil-June5-Dup2

Matrix: Solid

Lab

Lab

TAL SPK

TAL SPK

Lab Sample ID: 590-17700-4

Analyst

Analyst

Prepared

or Analyzed

Prepared

or Analyzed

06/07/22 09:12 NMI

06/07/22 11:44 NMI

| 5 |
|---|
|   |
|   |
| 8 |
| a |

Percent Solids: 89.9 Lab Sample ID: 590-17700-5 Matrix: Solid

| Total/NA       | Analysis      | Moisture    |         | 1      |         |        | 36397  | 06/06/22 11:22 | NMI      | TAL SPK      |
|----------------|---------------|-------------|---------|--------|---------|--------|--------|----------------|----------|--------------|
| <br>Client Sam | ple ID: SVI   | E-Soil-June | e5-Dup2 |        |         |        | L      | ab Sample      | ID: 590  | )-17700-5    |
| Date Collecte  | d: 06/05/22 1 | 3:34        |         |        |         |        |        |                |          | atrix: Solid |
| Date Receive   | d: 06/06/22 1 | 0:40        |         |        |         |        |        | Р              | ercent S | olids: 90.8  |
| <br>           | Batch         | Batch       |         | Dil    | Initial | Final  | Batch  | Prepared       |          |              |
| Ргер Туре      | Туре          | Method      | Run     | Factor | Amount  | Amount | Number | or Analyzed    | Analyst  | Lab          |
| Total/NA       | Prep          | 8011        |         |        | 10.13 g | 2 mL   | 36411  | 06/07/22 09:12 | NMI      | TAL SPK      |
| Total/NA       | Analysis      | 8011        |         | 1      |         |        | 36412  | 06/07/22 12:00 | NMI      | TAL SPK      |

### Laboratory References:

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

**Eurofins Spokane** 

### 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.      | •                          | , , , , ,                                |   |  |  |  |  |

Eurofins Spokane

# **Method Summary**

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

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

### **Protocol References:**

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

Lasonno oponano

### 11922 East 1st Ave

### Spokane, WA 99206

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

# Chain of Custody Record

🐝 eurofins

Environment Testing America

| Addition     Object/D2     B:45     HOR     Milling     Old/07/20     IS 45       Relinquished by:     Date/Time:     Company     Received by:     Date/Time:     Company       Relinquished by:     Date/Time:     Company     Received by:     Date/Time:     Company   | Client Information                           | sampler Blak     | e Urie.         | RD               |            | Lat PM:<br>Arrington, Randee E |  |                     |           | I.                        | Tracking  |          |            |           | COC No:<br>590-7430-2162.2 | Ł  |                  |              |          |
|---|--|------------------|-----------------|------------------|------------|--------------------------------|--|---------------------|-----------|---------------------------|-----------|----------|------------|-----------|----------------------------|--|------------------|--------------|----------|
| Concerning         Provide  | Client Contact:                              | Phone: _)()8-    | 340-1           | 305              |            |                                | Arring   | ton@e               | eurof     | insus o                   | om        | State o  | of Origin: | WA        |                            |  | Page:            | afl          |          |
| Acceleration         Dee Des Requestation         Preservation Context         Preservation Context           Context         All Requested telepiting         All Requested telepiting         Biology of the theory of theory of theory of the theory of the theory of the theory of theory of the theory of theory of theory of the theory of theory   | Company:                                     | <u></u>          | 0.00            | PWSID:           |            | T                              | , uning  | ion ago             |           |                           |           |          |            |           |                            |  | 1                | <u> </u>     |          |
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| Spectrum         JH (n- {EDS})           Complexes Project         Complexes Project         N No           Provide State         Power 1 50/01 - SOP 1-42/2         Purchasion Order Required all         Purchasion Order Required all           Construction         Purchasion Order Required all         Purchasion Order Required all         Purchasion Order Required all         Purchasion Order Required all           Construction         Purchasion Order Required all         Purchasion Order Required all         Purchasion Order Required all         Purchasion Order Required all           Sample Used Instruction         Sample Sample Order Type         Sample Required all to the same order all to the same ord   |  |                  |                 |                  |            | _                              |  |                     |           |                           |           |          |            |           |                            | and and                                  | A HCL            | M Hexane     |          |
| Sample Users         Sample Date  | Spokane                                      | TAT Requested (d | ays):<br>DU la- | (END)            |            |                                |  |                     |           |                           |           |          |            |           |                            |  |                  |              | 1        |
| Price       1 5204 - 564 - 1/27       Prickaso Order Requisited       Prickaso Order Requisited         Cinet       W0 #       Prickaso Order Requisited       Prickaso Order Requisited       Prickaso Order Requisited         Cinet       W0 #       Prickaso Order Requisited       Prickaso Order Requisited       Prickaso Order Requisited         Sample Jdmittication       Sample Date       Sample Date       Prickaso Order Requisited       Prickaso Order Requisited         Sample Jdmittication       Sample Date       Sample Date       Sample Date       Prickaso Order Requisited         Sample Jdmittication       Sample Date       Sample Date       Sample Date       Prickaso Order Requisited         Sample Jdmittication       Sample Date       Sample Date       Sample Date       Prickaso Order Requisited         Sample Jdmittication       Sample Date       Sample Date       Sample Date       Prickaso Order Requisited         Str Sample Date       Sample Date       Sample Date       Sample Date       Sample Date       Prickaso Order Requisited         Sample Jdmittication       Sample Date       Sample Date       Sample Date       Prickaso Order Requisited       Prickaso Order Requisited         SME Sample Date       Order Sample Date       Order Sample Date       Sample Date       Prickaso Order Requisited       Prickaso Or   | State, Zip:<br>W/A 99202                     | Compliance Prole |                 |                  |            | - 1                            | - 36   |                     |           |                           |           |          |            |           |                            | يكريا يست                                |                  |              | 1        |
| Enst<br>imat.neuronalight/inc.com         WO R         Image: Comparison of the second of |  | PO #:            |                 |                  |            |                                | - 6<br>46  |                     |           |                           |           |          |            |           |                            | an a | F MeOH           | R Na2S2O3    |          |
| Jamed Anschnitzender     Jamed Anschnitzender <td></td> <td><u>.</u></td> <td>r Requested</td> <td>1</td> <td></td> <td>- <u>ê</u></td> <td></td> <td>H Ascorbic Acid</td> <td>T TSP Dodec</td> <td>ahydrate</td>   |  | <u>.</u>         | r Requested     | 1                |            | - <u>ê</u>                     |  |                     |           |                           |           |          |            |           |                            |  | H Ascorbic Acid  | T TSP Dodec  | ahydrate |
| Warden W/T     Warden W/T       Sample Identification     Sample Date Time       Sample Identification     Sample Date Time       Systematic Sample Date Time     Sample Date Time       Systematic Sample Date Time     Sample Date Time       Sample Identification     Sample Date Time       Systematic Sample Date Time     Sample Date Time       Systematic Sample Date Time     Sample Date Time       Sample Identification     Sample Date Time       Systematic Sample Date Time     Sample Date Time  | jered.newcomb@hdrinc.com                     |                  |                 |                  |            | <u>so</u>                      | 2  |                     |           |                           |           |          |            |           |                            | Ľ  | J DI Water       | V MCAA       |          |
| Warden W/T     Warden W/T       Sample Identification     Sample Date Time       Sample Identification     Sample Date Time       Systematic Sample Date Time     Sample Date Time       Systematic Sample Date Time     Sample Date Time       Sample Identification     Sample Date Time       Systematic Sample Date Time     Sample Date Time       Systematic Sample Date Time     Sample Date Time       Sample Identification     Sample Date Time       Systematic Sample Date Time     Sample Date Time  |  |                  |                 |                  |            | Š                              | No No  |                     |           |                           |           |          |            |           | tain                       |  |                  | ify)         |          |
| Sample Identification     Sample Bate     Water All Stress     Water All Stress <td>Sile</td> <td>SSOW#:</td> <td></td> <td></td> <td></td> <td>Tames</td> <td>Soil TC</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ofcon</td> <td>Other:</td> <td></td> <td></td>  | Sile   | SSOW#:           |                 |                  |            | Tames                          | Soil TC  |                     |           |                           |           |          |            |           |                            | ofcon                                    | Other:           |              |          |
| Sample Identification       Sample Date       Sample  |  |                  |                 |                  | (w=water,  | 5                              | n MS/N<br>tandard  | BB                  |           |                           |           |          |            |           |                            | umber                                    |                  |              |          |
| SVE - Jo, I - June 5 - I Rost I       G/5/22       I259       G       Solid       N       N         SVE - Soli - June 5 - I Rost 3       I323       Solid       V       X       I       I         SVE - Soli - June 5 - I Rost 3       I321       Solid       V       X       I       I         SVE - Soli - June 5 - I Rost 3       I321       Solid       V       X       I       I         SVE - Soli - June 5 - I Rost 3       I321       Solid       V       X       I       I         SVE - Soli - June 5 - DIJP2       V       I334       V       Solid       V       X       I       I         Tdp Blank       -       -       G       Solid       V       X       I       I       I         Monthaster       Solid       V       Solid       I<  |  |                  |                 | (C=comp,         | BT=Tissue, | eld F                          | s os   |                     |           |                           |           |          |            |           |                            | tal N                                    |                  |              |          |
| SVE - Jol - June 5 - 18st 1       6/5/J2       1259       6       Solid       N       X ×       N       N       X ×       N       N       X ×       N       N       X ×       N       N       X ×       N       N       X ×       N       N       X ×       N       N       X ×       N       N       X ×       N       N       X ×       N       N       X ×       N       N       X ×       N <t< td=""><td>Sample Identification</td><td>Sample Date</td><td>Time</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>K</td><td>Special In</td><td>structions/N</td><td>ote:</td></t<>   | Sample Identification                        | Sample Date      | Time            |                  |            |                                |  |                     |           |                           |           |          |            |           |                            | K  | Special In       | structions/N | ote:     |
| JVE - Soil - June 5 - 1R3+2       1323       Soild       V       X         JVE - Joil - June 5 - 1R3+3       1347       Soild       V       X         JVE - Join - June 5 - 1R3+3       1347       Soild       V       X         JVE - Join - June 5 - 1R3+4       1415       Soild       V       X         JVE - Join - June 5 - 1R3+4       1415       Soild       V       X         JVE - Soil - June 5 - DUP2       V       1334       V       Soild       V         JVE - Soil - June 5 - DUP2       V       1334       V       Soild       V       X         Trip Blank       -       -       G       Soild       V       Soild       V       Soild         Soild   | SUE SUL TWO 5-19,41                          | 6/5/22           | 1260            |                  |            | Ĥ                              |  | _                   |           |                           |           |          | -          |           |                            | 个  |                  |              |          |
| SVE - Joint 5 - 1Rost3       1347       Solid       V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       X       Image: Solid V       Image: Solid V       X       Image: Solid V       Image: Solid V       X       Image: Solid V       Image:   |  | 013122           |                 | +                |            |                                |  | 1                   | $\square$ |                           |           |          | _          | ╉╼╇       |                            |  |                  |              |          |
| SVE -Sull - Jurke 5 - DUP2       V       1334       V       Solid       V       X         Trip Blank         G       Solid       V       X         G       Solid       V       X         G       Solid       V       X         G       Solid       V       X         G       Solid          G       Solid         G       Solid          G       Solid         G       Solid         Solid         Solid         Solid         Solid         Solid         Solid         Solid         Solid  | JVE-JOIL-Vune 5-1103+2                       |                  | 627             | $\left  \right $ |            | M                              |  | 1/-                 |           |                           |           | +        |            |           |                            |  |                  |              |          |
| SVE -Sull - Jurke 5 - DUP2       V       1334       V       Solid       V       X         Trip Blank         G       Solid       V       X         G       Solid       V       X         G       Solid       V       X         G       Solid       V       X         G       Solid          G       Solid         G       Solid          G       Solid         G       Solid         Solid         Solid         Solid         Solid         Solid         Solid         Solid         Solid  | OVE-Joil-June 5-170st3                       |                  |                 |                  | Solid      | <u> </u>                       | <u>۲</u>   | $\langle X \rangle$ |           |                           |           |          |            | _         |                            |  |                  |              |          |
| SVE -Sull - Jurke 5 - DUP2       V       1334       V       Solid       V       X         Trip Blank         G       Solid       V       X         G       Solid       V       X         G       Solid       V       X         G       Solid       V       X         G       Solid          G       Solid         G       Solid          G       Solid         G       Solid         Solid         Solid         Solid         Solid         Solid         Solid         Solid         Solid  | SVE-Joil-June5-1Past4                        |                  | 1415            |                  | Solid      | N                              |  | $\langle X \rangle$ |           |                           |           |          |            |           |                            |  |                  |              |          |
| Trip Plank         G       Solid       N       X         G       Solid       N       X         G       Solid       N       X         G       Solid       N       X         G       Solid       I <td>SVE-Soil-June 5-DUP2</td> <td>₩</td> <td>1334</td> <td>Ψ</td> <td>Solid</td> <td>N</td> <td>بر</td> <td><math>\langle X \rangle</math></td> <td></td>  | SVE-Soil-June 5-DUP2                         | ₩                | 1334            | Ψ                | Solid      | N                              | بر   | $\langle X \rangle$ |           |                           |           |          |            |           |                            |  |                  |              |          |
| Image: Solid  |  |                  |                 | G                | Solid      | N                              | 4  |                     |           |                           |           |          | ]          |           |                            |  |                  |              |          |
| Solid       Solid <td< td=""><td></td><td></td><td></td><td></td><td>Solid</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>i (FL)ssa</td><td></td><td>•: <u></u></td><td>L</td><td></td><td></td></td<>  |  |                  |                 |                  | Solid      |                                |  | 1                   |           |                           |           |          |            | i (FL)ssa |                            | •: <u></u>                               | L                |              |          |
| Solid       Solid <td< td=""><td></td><td></td><td></td><td></td><td>Solid</td><td>++</td><td></td><td>1</td><td></td><td>-</td><td></td><td></td><td><u></u></td><td></td><td></td><td></td><td></td><td>-</td><td></td></td<>   |  |                  |                 |                  | Solid      | ++                             |  | 1                   |           | -                         |           |          | <u></u>    |           |                            |  |                  | -            |          |
| Possible Hazard Identification       Solid       Solid       Solid       Solid       Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Possible Hazard       Flammable       Skin Irritant       Polson B       Unknown       Radiological       Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Deliverable Requested: I, II III IV Other (specify)       Special Instructions/QC Requirements       D(Shawberg)       Months         Empty Kit Relinquished by:       Date/Time:       Date/Time:       Company       Method of Shipment:         Relinquished by:       Date/Time:       Company       Received by:       Date/Time:       Company         Relinquished by:       Date/Time:       Date/Time:       Company       Received by:       Date/Time:       Company         Relinquished by:       Date/Time:<   |  |                  |                 |                  |            |                                |  | _                   |           | +                         |           |          | -          |           |                            |  |                  | - 10         |          |
| Possible Hazard Identification       Solid       Solid       Solid       Solid       Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Possible Hazard       Flammable       Skin Irritant       Polson B       Unknown       Radiological       Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Deliverable Requested: I, II III IV Other (specify)       Special Instructions/QC Requirements       D(Shawberg)       Months         Empty Kit Relinquished by:       Date/Time:       Date/Time:       Company       Method of Shipment:         Relinquished by:       Date/Time:       Company       Received by:       Date/Time:       Company         Relinquished by:       Date/Time:       Date/Time:       Company       Received by:       Date/Time:       Company         Relinquished by:       Date/Time:<   |  |                  |                 |                  |            |                                |  | _                   |           | _                         |           |          |            |           |                            |  |                  | -            |          |
| Possible Hazard Identification       Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Non-Hazard       Flammable       Skin Irritant       Polson B       Unknown       Radiological       Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Deliverable Requested: I, II III IV Other (specify)       Date:       Months       Months         Empty Kit Relinquished by:       Date:       Time:       Method of Shipment:         Relinquished by:       Date/Time:       Company       Company       Received by:       Date/Time:       Company         Relinquished by:       Date/Time:       Company       Received by:       Date/Time:       Company         Relinquished by:   |  |                  |                 |                  |            | 44                             |  | _                   |           |                           |           |          |            | 590-17    | 7700 CI                    | nain (                                   | of Custody       |              |          |
| Non-Hazard       Flammable       Skin Irritant       Poison B       Unknown       Radiological       Return To Client       Disposal By Lab       Archive ForMonths         Deliverable Requested: I, II III IV Other (specify)       Special Instructions/QC Requirements       D(5) is in Jc, 0       TA'T         Empty Kit Relinquished by:       Date:       Time:       Method of Shipment:         Relinquished by:       Date/Time:       Company       Received by:       Date/Time:       Company   |  |                  |                 |                  | Solid      | Щ                              |  |                     |           |                           |           |          |            |           |                            |  |                  |              |          |
| Deliverable Requested: I, II III IV Other (specify)     Special Instructions/QC Requirements TOT Shoulds TAT       Empty Kit Relinquished by:     Date:     Time:     Method of Shipment:       Relinquished by:     Date/Time:     Company     Received by:     Date/Time:       Relinquished by:     Date/Time:     Company     Received by:     Date/Time:     Company   |  |                  |                 |                  |            |                                | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |                     |           |                           |           |          |            |           |                            |  |                  |              |          |
| Empty Kit Relinquished by:     Date:     Time:     Method of Shipment:       Relinquished by:     Date/Time:     Company     Received by:     Date/Time:     Company  |  | UN B UNKI        | iown i          | Rauloiogicai     | ······     |                                | Specia   | al Instr            | uctions   | QC Re                     | quirem    | ents ~   | ai by L    |           | A -                        | Archi<br>- A.a                           |                  | MONUNS       |          |
| Relinquished by:     Date/Time:     Company     Received by:     Date/Time:     Company     Company       Relinquished by:     Date/Time:     Date/Time:     Company     Received by:     Date/Time:     Company       Relinquished by:     Date/Time:     Company     Received by:     Date/Time:     Company       Relinquished by:     Date/Time:     Company     Received by:     Date/Time:     Company       Relinquished by:     Date/Time:     Company     Received by:     Date/Time:     Company  | Empty Kit Belinguished by:                   |                  |                 |                  |            |                                |  |                     |           |                           |           |          |            |           |                            |  |                  |              |          |
| Relinquished by:     Date/Time:     Company     Received by:     Date/Time:     Company       Relinquished by:     Date/Time:     Company     Received by:     Date/Time:     Company   | Relinquiched hur                             | Date/Time:       |                 | . là             | Company    |                                |  | ceiveo              | v. 77     | <u> </u>                  |           | ľ        |            |           |                            |  |                  | Company      | _        |
| Relinquished by:     Date/Time:     Company     Received by:     Date/Time:     Company   | steller the                                  |                  | <u>~/2</u>      | 1545             | HDR        | l                              |  | <u> /// .</u>       | 1/m       | $\underline{\mathcal{N}}$ | -         |          |            |           |                            | 2  | 10:40            |              | 9        |
|   | Kenudaisuea ph.                              | Uale/Time:       |                 | C                | ompany     |                                | Re   | ceived b            | y. /      |                           |           |          |            | Date/T    | ime:                       |  |                  | Company      |          |
| Custody Seals Intact. Custody Seal No   | Relinquished by:                             | Date/Time:       |                 | c                | Company    | Received by: Date/Time:        |  |                     |           |                           | Company   |          |            |           |                            |  |                  |              |          |
| Custody Seals Intact. Custody Seal No 176697 Eage 12 of 13 Source Femperature(s) *C and Other Remarks: 3.7°C COND KOOG 6/7/2022   | Custody Seals Intact. Custody Seal No 176669 | 7                |                 |                  | Page 1     | 2 of                           |  | oler Ten            | nperature | e(s) °C an                | d Olher F | Remarks: |            |           | PC                         | l  | Corty IRO        | 06 6         | 7/2022   |

### Login Sample Receipt Checklist

### Client: HDR Inc

### Login Number: 17700 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.   | True   |                                     |
| Sample custody seals, if present, are intact.   | N/A    |                                     |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |                                     |
| Samples were received on ice.   | True   |                                     |
| Cooler Temperature is acceptable.   | True   |                                     |
| Cooler Temperature is recorded.   | True   |                                     |
| COC is present.   | True   |                                     |
| COC is filled out in ink and legible.   | True   |                                     |
| COC is filled out with all pertinent information.   | True   |                                     |
| Is the Field Sampler's name present on COC?   | True   |                                     |
| There are no discrepancies between the containers received and the COC.                                   | False  | Refer to Job Narrative for details. |
| 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    |                                     |

List Source: Eurofins Spokane