December 9, 2022

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

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

Dear Christer:

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

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

The AO requires that the progress reports include the following:

a. A list of on-site activities that have taken place during the previous month;

b. Detailed description of any deviations from required tasks not otherwise documented in project plans or amendment requests;

c. Description of all deviations from the scope of work and schedule during the previous quarter and any planned deviations in the upcoming quarter;

d. For any deviations in schedule, a plan for recovering lost time and maintaining compliance with the schedule;

e. All raw data (including laboratory analyses) received by Simplot during the past quarter and an identification of the source of the sample; and

f. A list of deliverables for the upcoming quarter if different from the schedule.

Activities in November 2022

- Simplot completed SVE operations per the *Cleanup Action Implementation Compliance Monitoring Plan* (CAICMP; HDR revised May 2022) *and SVE Performance Test Plan* (PTP; HDR May 2022).

- Full-scale implementation of performance field data and sample collection had been ongoing since June 8, 2022 and continued in accordance with the PTP (HDR May 2022) through early November 2022. Pre-treatment sampling consisting of four discrete core soil samples and the associated quality control (QC) samples were collected prior to treatment of each treatment batch and analyzed for EDB by Eurofins in Spokane, Washington on a rush 24-hour turnaround basis. Eurofins has reported all samples through November 2022 as non-detect for EDB with the exception of two detections: one each in Batch 31 and Batch 38. Pretreatment samples SVE-Soil-Sept15-31Pre4 results detected 0.062 µg/Kg EDB and SVE-Soil-Oct5-38Pre4 results in 0.065 µg/Kg, EDB which are both below the CUL of 0.27 µg/Kg. EDB analytical results for treatment batches 51 through 53 are attached to this memo.

- Simplot implemented a plan to increase frequency of treatment batch rotations to a frequency of every 48 hours, including weekends. On weekend batch swaps, the remediation contractor (GrayMar) was tasked with conducting soil sampling on Simplot's behalf; HDR provided sample media. Simplot tasked the remediation contractor with the responsibility to manage soils removed from treatment cell prior to receipt of laboratory analytical results including proper segregation, stockpile location tracking, and confirmation that results <CUL prior reuse as on-site backfill. If pre-treatment results are > CUL, the segregated batches were re-sampled; if post-treatment sample results were also > CUL, the batch would be placed back into the cell for additional treatment. For all batches processed on the 48-hour rotation, all pre-treatment samples were non-detect for EDB.

- Simplot/HDR coordinated with GrayMar to remove treatment batch soils 51 through 53 for use as on-site backfill based on non-detect soil sample analytical results, in accordance with the CAIMP and PTP.

- Two spent carbon samples were collected from the GAC drums on 11/14/2022 and were analyzed for VOCs via EPA Method 8260D, SVOCs by EPA Method SW846 8270C, and EDB, 1,2-Dibromo-3-Chloropropane (DBCP), and 1,2,3-Trichloropropane via EPA Method 8011, Metals via EPA Method 6010D, and Mercury via EPA Method 7470A. The samples were collected from two 85-gallon drums that remain on site until appropriate disposal methods are determined. All samples were non-detect for EDB, but some VOCs were detected. Simplot/HDR plan to resample the spent carbon to obtain additional sample volume within hold time for TCLP analysis of VOCs. TCLP analysis was triggered by the "rule of 20" on one VOC compound in the initial lab results.

- Six water investigative derived waste (IDW) samples were collected on 11/7/2022 from purged groundwater from a previous groundwater sampling event. Additionally, one SVE Knockout Tank Water sample was collected. The samples were analyzed for VOCs via EPA Method 8260D, SVOCs by EPA Method 8270E, and EDB via EPA Method 8011. Of the seven water samples, six were non-detect for EDB and one sample, IDW-Drum-3-11072022, resulted in an EDB detection of 0.0037 µg/L, which is below the CUL of 0.05 µg/L. The water IDW (six 55-gallon drums) remains in the drums and is stored on site. Simplot/HDR plan to resample the IDW water because

multiple laboratory quality assurance/quality control qualifiers were noted in the laboratory report. The laboratory report for these water samples are included in this monthly update.

- Comments on the Groundwater Well Installation Plan (HDR 2021) were received from Ecology; Simplot/HDR are currently working on incorporating comments to a revised Plan.

- The majority of the site grading was completed. Backfill and restoration of SVE treatment cell area and removal of SVE equipment and associated appurtenance also occurred.

Anticipated Activities for December 2022

- Simplot/GrayMar to coordinate final site grading and gravel placement. Expendable components of the treatment cell (tarping, concrete, wood) were disposed at a landfill permitted to accept construction debris (Grant County Solid Waste of Ephrata, Washington). Grading activities will resume in the Spring, including gravel cover of the site and will follow the grading plan.

- Simplot/HDR will resample the IDW water drums on site due to multiple internal laboratory qualifiers on the first round of sampling.

- Simplot/HDR will resample the spent carbon on site due to total VOCs results triggering the need for TCLP analysis and current sample volumes being outside of hold time.

- Simplot/HDR will incorporate SVE remedial activities into the draft cleanup action report and submit to Ecology in January 2023..

- Simplot/HDR will incorporate Ecology comments on the Groundwater Well Installation Plan and submit to Ecology in January 2023.

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

Respectfully,
HDR Engineering, Inc.

Tyler Allen
Project Manager

Attachments: Batch 51 Pretreatment EDB 11-1-2022 (J19132-1) Lab Report.pdf
Batch 52 Pretreatment EDB 11-3-2022 (J19167-1) Lab Report.pdf
Batch 53 Pretreatment EDB 11-7-2022 (J19191-1) Lab Report.pdf
GAC Drum Samples 11-4-2022 (J-19244-1) Lab Report Report.pdf
IDW Water 11-7-2022 (J19192-1) Lab Report.pdf

CC: Molly Dimick, J.R. Simplot Company

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ANALYTICAL REPORT

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

Laboratory Job ID: 590-19132-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb

Authorized for release by:
11/2/2022 2:29:31 PM

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

Table of Contents

Case Narrative

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19132-1

Job ID: 590-19132-1

Laboratory: Eurofins Spokane

Narrative

Job Narrative
590-19132-1

Comments
No additional comments.

Receipt
The samples were received on 11/1/2022 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6º C.

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

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

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

Sample Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19132-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19132-1	SVE-Soil-Nov1-51Pre1	Solid	11/01/22 12:37	11/01/22 15:00
590-19132-2	SVE-Soil-Nov1-51Pre2	Solid	11/01/22 12:39	11/01/22 15:00
590-19132-3	SVE-Soil-Nov1-51Pre3	Solid	11/01/22 12:41	11/01/22 15:00
590-19132-4	SVE-Soil-Nov1-51Pre4	Solid	11/01/22 12:43	11/01/22 15:00
590-19132-5	Trip Blank	Solid	11/01/22 00:00	11/01/22 15:00

Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19132-1

Glossary

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

Client Sample ID: SVE-Soil-Nov1-51Pre1
Lab Sample ID: 590-19132-1
Date Collected: 11/01/22 12:37
Matrix: Solid
Date Received: 11/01/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.2		0.01	0.01	%			11/01/22 15:25	1
Percent Solids (EPA Moisture)	90.8		0.01	0.01	%			11/01/22 15:25	1

Client Sample ID: SVE-Soil-Nov1-51Pre1
Lab Sample ID: 590-19132-1
Date Collected: 11/01/22 12:37
Matrix: Solid
Date Received: 11/01/22 15:00
Percent Solids: 90.8

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	11/01/22 15:41	11/01/22 17:55	1

Client Sample ID: SVE-Soil-Nov1-51Pre2
Lab Sample ID: 590-19132-2
Date Collected: 11/01/22 12:39
Matrix: Solid
Date Received: 11/01/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.6		0.01	0.01	%			11/01/22 15:25	1
Percent Solids (EPA Moisture)	88.4		0.01	0.01	%			11/01/22 15:25	1

Client Sample ID: SVE-Soil-Nov1-51Pre2
Lab Sample ID: 590-19132-2
Date Collected: 11/01/22 12:39
Matrix: Solid
Date Received: 11/01/22 15:00
Percent Solids: 88.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.039	ug/Kg	☼	11/01/22 15:41	11/01/22 18:44	1

Client Sample ID: SVE-Soil-Nov1-51Pre3
Lab Sample ID: 590-19132-3
Date Collected: 11/01/22 12:41
Matrix: Solid
Date Received: 11/01/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.5		0.01	0.01	%			11/01/22 15:25	1
Percent Solids (EPA Moisture)	89.5		0.01	0.01	%			11/01/22 15:25	1

Client Sample ID: SVE-Soil-Nov1-51Pre3
Lab Sample ID: 590-19132-3
Date Collected: 11/01/22 12:41
Matrix: Solid
Date Received: 11/01/22 15:00
Percent Solids: 89.5

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	11/01/22 15:41	11/01/22 19:00	1

Client Sample ID: SVE-Soil-Nov1-51Pre4
Lab Sample ID: 590-19132-4
Date Collected: 11/01/22 12:43
Matrix: Solid
Date Received: 11/01/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.1		0.01	0.01	%			11/01/22 15:25	1

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19132-1

Client Sample ID: SVE-Soil-Nov1-51Pre4

Lab Sample ID: 590-19132-4
Date Collected: 11/01/22 12:43
Matrix: Solid
Date Received: 11/01/22 15:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	86.9		0.01	0.01	%			11/01/22 15:25	1

Client Sample ID: SVE-Soil-Nov1-51Pre4

Lab Sample ID: 590-19132-4
Date Collected: 11/01/22 12:43
Matrix: Solid
Date Received: 11/01/22 15:00
Percent Solids: 86.9

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.055	0.038	ug/Kg	☼	11/01/22 15:41	11/01/22 19:16	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-19132-5
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:00

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.044	0.031	ug/Kg		11/01/22 15:41	11/01/22 19:48	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19132-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38868/3-A
Matrix: Solid
Analysis Batch: 38867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38868

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

Lab Sample ID: LCS 590-38868/6-A
Matrix: Solid
Analysis Batch: 38867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38868

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

Lab Sample ID: 590-19132-1 MS
Matrix: Solid
Analysis Batch: 38867

Client Sample ID: SVE-Soil-Nov1-51Pre1
Prep Type: Total/NA
Prep Batch: 38868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)	ND		1.10	0.844		ug/Kg	☼	77	60 - 140		

Lab Sample ID: 590-19132-1 MSD
Matrix: Solid
Analysis Batch: 38867

Client Sample ID: SVE-Soil-Nov1-51Pre1
Prep Type: Total/NA
Prep Batch: 38868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.07	0.805		ug/Kg	☼	75	60 - 140	5	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-19132-1 DU
Matrix: Solid
Analysis Batch: 38869

Client Sample ID: SVE-Soil-Nov1-51Pre1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.2			9.5		%				3	20
Percent Solids	90.8			90.5		%				0.4	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19132-1

Client Sample ID: SVE-Soil-Nov1-51Pre1
Lab Sample ID: 590-19132-1
Date Collected: 11/01/22 12:37
Matrix: Solid
Date Received: 11/01/22 15:00

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

Client Sample ID: SVE-Soil-Nov1-51Pre1
Lab Sample ID: 590-19132-1
Date Collected: 11/01/22 12:37
Matrix: Solid
Date Received: 11/01/22 15:00
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.21 g	2 mL	38868	11/01/22 15:41	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38867	11/01/22 17:55	NMI	EET SPK

Client Sample ID: SVE-Soil-Nov1-51Pre2
Lab Sample ID: 590-19132-2
Date Collected: 11/01/22 12:39
Matrix: Solid
Date Received: 11/01/22 15:00

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

Client Sample ID: SVE-Soil-Nov1-51Pre2
Lab Sample ID: 590-19132-2
Date Collected: 11/01/22 12:39
Matrix: Solid
Date Received: 11/01/22 15:00
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.23 g	2 mL	38868	11/01/22 15:41	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38867	11/01/22 18:44	NMI	EET SPK

Client Sample ID: SVE-Soil-Nov1-51Pre3
Lab Sample ID: 590-19132-3
Date Collected: 11/01/22 12:41
Matrix: Solid
Date Received: 11/01/22 15:00

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

Client Sample ID: SVE-Soil-Nov1-51Pre3
Lab Sample ID: 590-19132-3
Date Collected: 11/01/22 12:41
Matrix: Solid
Date Received: 11/01/22 15:00
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.20 g	2 mL	38868	11/01/22 15:41	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38867	11/01/22 19:00	NMI	EET SPK

Client Sample ID: SVE-Soil-Nov1-51Pre4
Lab Sample ID: 590-19132-4
Date Collected: 11/01/22 12:43
Matrix: Solid
Date Received: 11/01/22 15:00

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

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19132-1

Client Sample ID: SVE-Soil-Nov1-51Pre4

Lab Sample ID: 590-19132-4
Date Collected: 11/01/22 12:43
Matrix: Solid
Date Received: 11/01/22 15:00
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.50 g	2 mL	38868	11/01/22 15:41	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38867	11/01/22 19:16	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-19132-5
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			11.29 g	2 mL	38868	11/01/22 15:41	NMI	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38867	11/01/22 19:48	NMI	EET SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19132-1

Laboratory: Eurofins Spokane

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19132-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jered Newcomb, JAN /	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No:
Client Contact: Jered Newcomb	Phone: 509-899-4371	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin: WA	Page: Page 1 of 1
Company: HDR Inc	PWSID:			Job #:

Address: 835 N Post St. Ste 101	Due Date Requested	Analysis Requested
City: Spokane	TAT Requested (days): 24 hour	
State, Zip: WA, 99202	Compliance Project: Δ Yes Δ No	
Phone: 509-899-4371	PO #: Purchase Order Requested	
Email: jered.newcomb@hdrinc.com	WO #:	
Project Name: Simplot Warden	Project #: 10331653	
Site: Warden WA	SSOW#:	

Preservation Codes

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 EDB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
SVE-Soil-Nov \ -51Pre1	11/ \ /2022	1237	G	S	N	N	X	1	
SVE-Soil-Nov \ -51Pre2	11/ \ /2022	1234	G	S	N	N	X	1	
SVE-Soil-Nov \ -51Pre3	11/ \ /2022	1241	G	S	N	N	X	1	
SVE-Soil-Nov \ -51Pre4	11/ \ /2022	1243	G	S	N	N	X	1	
Trip Blank				S	N	N	X	1	

590-19132 Chain of Custody

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

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

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements.

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

Relinquished by:	Date/Time: 11/1/22 15.00	Company HDR	Received by:	Date/Time: 11/1/22 1500	Company EETGSO
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 4 4 4 6 IR00 Le

11/2/2022

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19132-1

Login Number: 19132
List Number: 1
Creator: Vaughan, Madison 1

List Source: Eurofins Spokane

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 590-19167-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb

Authorized for release by:
11/4/2022 6:38:57 PM

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

Table of Contents

Case Narrative

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19167-1

Job ID: 590-19167-1

Laboratory: Eurofins Spokane

Narrative

Receipt
The samples were received on 11/3/2022 3:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0º C.

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

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

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

Sample Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19167-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19167-1	SVE-Soil-Nov03-52Pre1	Solid	11/03/22 13:50	11/03/22 15:45
590-19167-2	SVE-Soil-Nov03-52Pre2	Solid	11/03/22 13:54	11/03/22 15:45
590-19167-3	SVE-Soil-Nov03-52Pre3	Solid	11/03/22 13:59	11/03/22 15:45
590-19167-4	SVE-Soil-Nov03-52Pre4	Solid	11/03/22 14:02	11/03/22 15:45
590-19167-5	SVE-Soil-Nov03-52DUP	Solid	11/03/22 13:00	11/03/22 15:45
590-19167-6	Trip Blank	Solid	11/03/22 00:00	11/03/22 15:45

Definitions/Glossary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19167-1

Glossary

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

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19167-1

Client Sample ID: SVE-Soil-Nov03-52Pre1

Lab Sample ID: 590-19167-1
Date Collected: 11/03/22 13:50
Matrix: Solid
Date Received: 11/03/22 15:45

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		11/04/22 09:53	11/04/22 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.8		0.01	0.01	%			11/04/22 10:02	1
Percent Solids (EPA Moisture)	90.2		0.01	0.01	%			11/04/22 10:02	1

Client Sample ID: SVE-Soil-Nov03-52Pre2

Lab Sample ID: 590-19167-2
Date Collected: 11/03/22 13:54
Matrix: Solid
Date Received: 11/03/22 15:45

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		11/04/22 09:53	11/04/22 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.3		0.01	0.01	%			11/04/22 10:02	1
Percent Solids (EPA Moisture)	88.7		0.01	0.01	%			11/04/22 10:02	1

Client Sample ID: SVE-Soil-Nov03-52Pre3

Lab Sample ID: 590-19167-3
Date Collected: 11/03/22 13:59
Matrix: Solid
Date Received: 11/03/22 15:45

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.049	0.034	ug/Kg		11/04/22 09:53	11/04/22 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.2		0.01	0.01	%			11/04/22 10:02	1
Percent Solids (EPA Moisture)	89.8		0.01	0.01	%			11/04/22 10:02	1

Client Sample ID: SVE-Soil-Nov03-52Pre4

Lab Sample ID: 590-19167-4
Date Collected: 11/03/22 14:02
Matrix: Solid
Date Received: 11/03/22 15:45

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		11/04/22 09:53	11/04/22 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.5		0.01	0.01	%			11/04/22 10:02	1
Percent Solids (EPA Moisture)	87.5		0.01	0.01	%			11/04/22 10:02	1

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19167-1

Client Sample ID: SVE-Soil-Nov03-52DUP

Lab Sample ID: 590-19167-5

Date Collected: 11/03/22 13:00
Matrix: Solid
Date Received: 11/03/22 15:45

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		11/04/22 09:53	11/04/22 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.7		0.01	0.01	%			11/04/22 10:02	1
Percent Solids (EPA Moisture)	88.3		0.01	0.01	%			11/04/22 10:02	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-19167-6

Date Collected: 11/03/22 00:00
Matrix: Solid
Date Received: 11/03/22 15:45

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.047	0.033	ug/Kg		11/04/22 09:53	11/04/22 13:46	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19167-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38916/2-A
Matrix: Solid
Analysis Batch: 38921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38916

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		11/04/22 09:53	11/04/22 11:20	1

Lab Sample ID: LCS 590-38916/3-A
Matrix: Solid
Analysis Batch: 38921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38916

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			1.00	0.931		ug/Kg		93	60 - 140		

Lab Sample ID: 590-19167-1 MS
Matrix: Solid
Analysis Batch: 38921

Client Sample ID: SVE-Soil-Nov03-52Pre1
Prep Type: Total/NA
Prep Batch: 38916

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)	ND		0.988	0.686		ug/Kg		69	60 - 140		

Lab Sample ID: 590-19167-1 MSD
Matrix: Solid
Analysis Batch: 38921

Client Sample ID: SVE-Soil-Nov03-52Pre1
Prep Type: Total/NA
Prep Batch: 38916

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		0.998	0.708		ug/Kg		71	60 - 140	3	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-19167-1 DU
Matrix: Solid
Analysis Batch: 38918

Client Sample ID: SVE-Soil-Nov03-52Pre1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.8			9.6		%				2	20
Percent Solids	90.2			90.4		%				0.2	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19167-1

Client Sample ID: SVE-Soil-Nov03-52Pre1

Lab Sample ID: 590-19167-1
Date Collected: 11/03/22 13:50
Matrix: Solid
Date Received: 11/03/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.05 g	2 mL	38916	11/04/22 09:53	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38921	11/04/22 11:52	NMI	EET SPK
Total/NA	Analysis	Moisture		1			38918	11/04/22 10:02	M1V	EET SPK

Client Sample ID: SVE-Soil-Nov03-52Pre2

Lab Sample ID: 590-19167-2
Date Collected: 11/03/22 13:54
Matrix: Solid
Date Received: 11/03/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.59 g	2 mL	38916	11/04/22 09:53	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38921	11/04/22 12:41	NMI	EET SPK
Total/NA	Analysis	Moisture		1			38918	11/04/22 10:02	M1V	EET SPK

Client Sample ID: SVE-Soil-Nov03-52Pre3

Lab Sample ID: 590-19167-3
Date Collected: 11/03/22 13:59
Matrix: Solid
Date Received: 11/03/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.15 g	2 mL	38916	11/04/22 09:53	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38921	11/04/22 12:57	NMI	EET SPK
Total/NA	Analysis	Moisture		1			38918	11/04/22 10:02	M1V	EET SPK

Client Sample ID: SVE-Soil-Nov03-52Pre4

Lab Sample ID: 590-19167-4
Date Collected: 11/03/22 14:02
Matrix: Solid
Date Received: 11/03/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.04 g	2 mL	38916	11/04/22 09:53	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38921	11/04/22 13:13	NMI	EET SPK
Total/NA	Analysis	Moisture		1			38918	11/04/22 10:02	M1V	EET SPK

Client Sample ID: SVE-Soil-Nov03-52DUP

Lab Sample ID: 590-19167-5
Date Collected: 11/03/22 13:00
Matrix: Solid
Date Received: 11/03/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.65 g	2 mL	38916	11/04/22 09:53	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38921	11/04/22 13:30	NMI	EET SPK
Total/NA	Analysis	Moisture		1			38918	11/04/22 10:02	M1V	EET SPK

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19167-1

Client Sample ID: Trip Blank

Date Collected: 11/03/22 00:00
Date Received: 11/03/22 15:45

Lab Sample ID: 590-19167-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.55 g	2 mL	38916	11/04/22 09:53	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38921	11/04/22 13:46	NMI	EET SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19167-1

Laboratory: Eurofins Spokane

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19167-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

Chain of Custody Record

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Client Information	Sampler: Jered Newcomb, JAN / Daniel Brandt, DNB	Lab PM: Arrington Randee E	Carrier Tracking No(s):	COC No:
Client Contact: Jered Newcomb	Phone: 509-899-4371	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin: WA	Page: Page 1 of 1
Company: HDR Inc	PWSID:			Job #:
Address: 835 N Post St. Ste 101	Due Date Requested			
City: Spokane	TAT Requested (days): 24 hour			
State, Zip: WA, 99202	Compliance Project: Δ Yes Δ No			
Phone: 509-899-4371	PO #: Purchase Order Requested			
Email: jered.newcomb@hdrinc.com	WO #:			
Project Name: Simplot Warden	Project #: 10331653			
Site: Warden WA	SSOW#:			

Analysis Requested

Preservation Codes.

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 EDB	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
SVE-Soil-Nov 03-52Pre1	11/ 3 /2022	1350	G	S	N	N	X	1	
SVE-Soil-Nov 03-52Pre2	11/ 3 /2022	1354	G	S	N	N	X	1	
SVE-Soil-Nov 03-52Pre3	11/ 3 /2022	1359	G	S	N	N	X	1	
SVE-Soil-Nov 03-52Pre4	11/ 3 /2022	1402	G	S	N	N	X	1	
SVE-Soil-Nov 03-52DUP	11/ 3 /2022	1300	G	S	N	N	X	1	
Trip Blank				S	N	N	X	1	

590-19167 Chain of Custody

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements.

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/3/22 1545		[signature]	11/3/22 1545	FedEx
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 3.0 HD

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19167-1

Login Number: 19167
List Number: 1
Creator: Fettig, Riley

List Source: Eurofins Spokane

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 590-19191-1
Client Project/Site: Simplot Warden

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

Attn: Jered Newcomb

Authorized for release by:
11/8/2022 5:09:58 PM

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

Table of Contents

Case Narrative

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19191-1

Job ID: 590-19191-1

Laboratory: Eurofins Spokane

Narrative

Receipt
The samples were received on 11/7/2022 4:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.2º C.

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

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

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

Sample Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19191-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19191-1	SVE-Soil-Nov7-53Pre1	Solid	11/07/22 12:42	11/07/22 16:25
590-19191-2	SVE-Soil-Nov7-53Pre2	Solid	11/07/22 12:44	11/07/22 16:25
590-19191-3	SVE-Soil-Nov7-53Pre3	Solid	11/07/22 12:46	11/07/22 16:25
590-19191-4	SVE-Soil-Nov7-53Pre4	Solid	11/07/22 12:48	11/07/22 16:25
590-19191-5	Trip Blank	Solid	11/07/22 00:00	11/07/22 16:25

Definitions/Glossary

Client: HDR Inc
Job ID: 590-19191-1
Project/Site: Simplot Warden

Glossary

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

Client Sample ID: SVE-Soil-Nov7-53Pre1

Lab Sample ID: 590-19191-1
Date Collected: 11/07/22 12:42
Matrix: Solid
Date Received: 11/07/22 16:25

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.2		0.01	0.01	%			11/08/22 09:17	1
Percent Solids (EPA Moisture)	88.8		0.01	0.01	%			11/08/22 09:17	1

Client Sample ID: SVE-Soil-Nov7-53Pre1

Lab Sample ID: 590-19191-1
Date Collected: 11/07/22 12:42
Matrix: Solid
Date Received: 11/07/22 16:25
Percent Solids: 88.8

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.052	0.037	ug/Kg	☼	11/08/22 09:42	11/08/22 11:51	1

Client Sample ID: SVE-Soil-Nov7-53Pre2

Lab Sample ID: 590-19191-2
Date Collected: 11/07/22 12:44
Matrix: Solid
Date Received: 11/07/22 16:25

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.6		0.01	0.01	%			11/08/22 09:17	1
Percent Solids (EPA Moisture)	89.4		0.01	0.01	%			11/08/22 09:17	1

Client Sample ID: SVE-Soil-Nov7-53Pre2

Lab Sample ID: 590-19191-2
Date Collected: 11/07/22 12:44
Matrix: Solid
Date Received: 11/07/22 16:25
Percent Solids: 89.4

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.053	0.037	ug/Kg	☼	11/08/22 09:42	11/08/22 12:40	1

Client Sample ID: SVE-Soil-Nov7-53Pre3

Lab Sample ID: 590-19191-3
Date Collected: 11/07/22 12:46
Matrix: Solid
Date Received: 11/07/22 16:25

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.5		0.01	0.01	%			11/08/22 09:17	1
Percent Solids (EPA Moisture)	87.5		0.01	0.01	%			11/08/22 09:17	1

Client Sample ID: SVE-Soil-Nov7-53Pre3

Lab Sample ID: 590-19191-3
Date Collected: 11/07/22 12:46
Matrix: Solid
Date Received: 11/07/22 16:25
Percent Solids: 87.5

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	11/08/22 09:42	11/08/22 12:56	1

Client Sample ID: SVE-Soil-Nov7-53Pre4

Lab Sample ID: 590-19191-4
Date Collected: 11/07/22 12:48
Matrix: Solid
Date Received: 11/07/22 16:25

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.9		0.01	0.01	%			11/08/22 09:17	1

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19191-1

Client Sample ID: SVE-Soil-Nov7-53Pre4

Lab Sample ID: 590-19191-4
Date Collected: 11/07/22 12:48
Matrix: Solid
Date Received: 11/07/22 16:25

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	89.1		0.01	0.01	%			11/08/22 09:17	1

Client Sample ID: SVE-Soil-Nov7-53Pre4

Lab Sample ID: 590-19191-4
Date Collected: 11/07/22 12:48
Matrix: Solid
Date Received: 11/07/22 16:25
Percent Solids: 89.1

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.054	0.038	ug/Kg	☼	11/08/22 09:42	11/08/22 13:12	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-19191-5
Date Collected: 11/07/22 00:00
Matrix: Solid
Date Received: 11/07/22 16:25

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.048	0.033	ug/Kg		11/08/22 09:42	11/08/22 13:28	1

QC Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19191-1

Method: 8011 - EDB

Lab Sample ID: MB 590-38968/2-A
Matrix: Solid
Analysis Batch: 38970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.050	0.035	ug/Kg		11/08/22 09:42	11/08/22 11:19	1

Lab Sample ID: LCS 590-38968/3-A
Matrix: Solid
Analysis Batch: 38970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38968

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

Lab Sample ID: 590-19191-1 MS
Matrix: Solid
Analysis Batch: 38970

Client Sample ID: SVE-Soil-Nov7-53Pre1
Prep Type: Total/NA
Prep Batch: 38968

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)	ND		1.10	0.890		ug/Kg	☼	81	60 - 140		

Lab Sample ID: 590-19191-1 MSD
Matrix: Solid
Analysis Batch: 38970

Client Sample ID: SVE-Soil-Nov7-53Pre1
Prep Type: Total/NA
Prep Batch: 38968

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.11	0.899		ug/Kg	☼	81	60 - 140	1	20

Method: Moisture - Percent Moisture

Lab Sample ID: 590-19191-1 DU
Matrix: Solid
Analysis Batch: 38964

Client Sample ID: SVE-Soil-Nov7-53Pre1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.2			10.9		%				3	20
Percent Solids	88.8			89.1		%				0.3	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19191-1

Client Sample ID: SVE-Soil-Nov7-53Pre1
Lab Sample ID: 590-19191-1
Date Collected: 11/07/22 12:42
Matrix: Solid
Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38964	11/08/22 09:17	M1V	EET SPK

Client Sample ID: SVE-Soil-Nov7-53Pre1
Lab Sample ID: 590-19191-1
Date Collected: 11/07/22 12:42
Matrix: Solid
Date Received: 11/07/22 16:25
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.78 g	2 mL	38968	11/08/22 09:42	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 11:51	NMI	EET SPK

Client Sample ID: SVE-Soil-Nov7-53Pre2
Lab Sample ID: 590-19191-2
Date Collected: 11/07/22 12:44
Matrix: Solid
Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38964	11/08/22 09:17	M1V	EET SPK

Client Sample ID: SVE-Soil-Nov7-53Pre2
Lab Sample ID: 590-19191-2
Date Collected: 11/07/22 12:44
Matrix: Solid
Date Received: 11/07/22 16:25
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.63 g	2 mL	38968	11/08/22 09:42	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 12:40	NMI	EET SPK

Client Sample ID: SVE-Soil-Nov7-53Pre3
Lab Sample ID: 590-19191-3
Date Collected: 11/07/22 12:46
Matrix: Solid
Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38964	11/08/22 09:17	M1V	EET SPK

Client Sample ID: SVE-Soil-Nov7-53Pre3
Lab Sample ID: 590-19191-3
Date Collected: 11/07/22 12:46
Matrix: Solid
Date Received: 11/07/22 16:25
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.53 g	2 mL	38968	11/08/22 09:42	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 12:56	NMI	EET SPK

Client Sample ID: SVE-Soil-Nov7-53Pre4
Lab Sample ID: 590-19191-4
Date Collected: 11/07/22 12:48
Matrix: Solid
Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			38964	11/08/22 09:17	M1V	EET SPK

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19191-1

Client Sample ID: SVE-Soil-Nov7-53Pre4

Lab Sample ID: 590-19191-4
Date Collected: 11/07/22 12:48
Matrix: Solid
Date Received: 11/07/22 16:25
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.45 g	2 mL	38968	11/08/22 09:42	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 13:12	NMI	EET SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-19191-5
Date Collected: 11/07/22 00:00
Matrix: Solid
Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			10.51 g	2 mL	38968	11/08/22 09:42	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 13:28	NMI	EET SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: HDR Inc
Job ID: 590-19191-1
Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19191-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jered Newcomb, JAN /	Lab PM: Arrington Randee E	Carrier Tracking No(s):	COC No:
Client Contact: Jered Newcomb	Phone: 509-899-4371	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin: WA	Page: Page 1 of 1
Company: HDR Inc	PWSID:			Job #:
Address: 835 N Post St. Ste. 101	Due Date Requested			
City: Spokane	TAT Requested (days): 24 hour			
State, Zip: WA, 99202	Compliance Project: Δ Yes Δ No			
Phone: 509-899-4371	PO #: Purchase Order Requested			
Email: jered.newcomb@hdrinc.com	WO #:			
Project Name: Simplot Warden	Project #: 10331653			
Site: Warden WA	SSOW#:			

Analysis Requested

Preservation Codes.

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8011 EDB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
SVE-Soil-Nov 7 -53Pre1	11/ 7 /2022	1242	G	S	N	N	X	1	
SVE-Soil-Nov 7 -53Pre2	11/ 7 /2022	1244	G	S	N	N	X	1	
SVE-Soil-Nov 7 -53Pre3	11/ 7 /2022	1246	G	S	N	N	X	1	
SVE-Soil-Nov 7 -53Pre4	11/ 7 /2022	1248	G	S	N	N	X	1	
Trip Blank				S	N	N	X	1	

590-19191 Chain of Custody

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements.

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/7/22 1625	HDR		11/7/22 1125	EEN80
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 5.1

11/8/2022

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19191-1

Login Number: 19191
List Number: 1
Creator: Fettig, Riley

List Source: Eurofins Spokane

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jered Newcomb
HDR Inc
1401 E. Trent Ave
Suite 101
Spokane, Washington 99202

Generated 12/2/2022 12:11:14 PM

JOB DESCRIPTION

Simplot Warden

JOB NUMBER

590-19244-1

Eurofins Spokane
11922 East 1st Ave
Spokane WA 99206

See page two for job notes and contact information.

Job Notes

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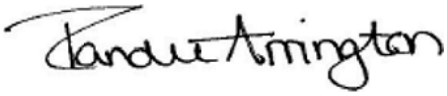
The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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

Table of Contents

Case Narrative

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19244-1

Job ID: 590-19244-1

Laboratory: Eurofins Spokane

Narrative

Receipt
The samples were received on 11/14/2022 4:16 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1º C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 590-39169 recovered above the upper control limit for Chlorodibromomethane, trans-1,4-Dichloro-2-butene, Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, trans-1,3-Dichloropropene, 1,2,3-Trichloropropane and 1,2-Dibromo-3-Chloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: GAC-Drum-1-11142022 (590-19244-1), GAC-Drum-2-11142022 (590-19244-2) and (CCVIS 590-39169/5).

Method 8260D: The following sample was diluted due to the nature of the sample matrix: GAC-Drum-1-11142022 (590-19244-1). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270C: Surrogate recovery for the following samples were outside control limits: GAC-Drum-1-11142022 (590-19244-1) and GAC-Drum-2-11142022 (590-19244-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8011: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 590-39165 and analytical batch 590-39163 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals
Method 6010D: The post digestion spike % recovery for Silver associated with batch 590-39285 was outside of control limits. The associated sample is: (590-19244-A-1-E PDS).

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

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

Organic Prep
Method 3546: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: GAC-Drum-1-11142022 (590-19244-1) and GAC-Drum-2-11142022 (590-19244-2). The reporting limits (RLs) have been adjusted proportionately. The initial mass was changed from 20g to 1g.
Method 8270C.

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

VOA 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: 590-19244-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19244-1	GAC-Drum-1-11142022	Solid	11/14/22 12:10	11/14/22 16:16
590-19244-2	GAC-Drum-2-11142022	Solid	11/14/22 12:20	11/14/22 16:16

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19244-1

Client Sample ID: GAC-Drum-1-11142022
Date Collected: 11/14/22 12:10
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-1
Matrix: Solid
Percent Solids: 98.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		37	10	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Chloromethane	ND		190	15	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Vinyl chloride	ND		22	7.5	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Bromomethane	ND	F2	190	12	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Chloroethane	ND		74	21	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Trichlorofluoromethane	**250**		74	12	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,1-Dichloroethene	ND		37	13	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Methylene Chloride	ND		130	74	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
trans-1,2-Dichloroethene	ND		37	8.5	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,1-Dichloroethane	ND		37	9.8	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
2,2-Dichloropropane	ND		37	9.0	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
cis-1,2-Dichloroethene	ND		37	7.7	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Bromochloromethane	ND		37	15	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Chloroform	**19**	**J**	37	8.7	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,1,1-Trichloroethane	ND		37	6.4	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Carbon tetrachloride	ND		37	4.1	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,1-Dichloropropene	ND		37	6.5	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Benzene	ND		7.4	3.7	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,2-Dichloroethane	ND		37	2.6	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Trichloroethene	ND		9.3	2.8	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,2-Dichloropropane	ND		45	11	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Dibromomethane	ND		37	8.3	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Bromodichloromethane	ND		37	23	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
cis-1,3-Dichloropropene	ND		37	7.6	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Toluene	ND		37	4.9	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
trans-1,3-Dichloropropene	ND		37	9.8	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,1,2-Trichloroethane	ND		37	13	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Tetrachloroethene	ND		15	6.5	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,3-Dichloropropane	ND		37	11	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Dibromochloromethane	ND		74	6.0	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,2-Dibromoethane (EDB)	ND		37	12	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Chlorobenzene	ND		37	7.7	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Ethylbenzene	ND		37	6.0	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,1,1,2-Tetrachloroethane	ND		37	7.1	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,1,2,2-Tetrachloroethane	ND		37	11	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
m,p-Xylene	ND		150	11	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
o-Xylene	ND		74	8.5	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Styrene	ND		37	8.8	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Bromoform	ND		74	7.1	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Isopropylbenzene	ND		37	11	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Bromobenzene	ND		37	8.3	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
N-Propylbenzene	ND		37	9.8	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,2,3-Trichloropropane	ND		74	14	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
2-Chlorotoluene	ND		37	6.1	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,3,5-Trimethylbenzene	ND		37	12	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
4-Chlorotoluene	ND		37	3.2	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
tert-Butylbenzene	ND		37	7.2	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,2,4-Trimethylbenzene	ND		37	8.7	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
sec-Butylbenzene	ND		37	6.9	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100

Client Sample ID: GAC-Drum-1-11142022
Date Collected: 11/14/22 12:10
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-1
Matrix: Solid
Percent Solids: 98.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		37	4.7	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
p-Isopropyltoluene	ND		37	7.6	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,4-Dichlorobenzene	ND		37	7.7	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
n-Butylbenzene	ND		37	10	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,2-Dichlorobenzene	ND		37	8.7	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,2-Dibromo-3-Chloropropane	ND		190	22	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,2,4-Trichlorobenzene	**20**	**J**	37	6.9	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
1,2,3-Trichlorobenzene	**31**	**J**	37	12	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Hexachlorobutadiene	**23**	**J**	37	6.1	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Naphthalene	**23**	**J**	74	10	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100
Methyl tert-butyl ether	ND		19	11	mg/Kg	☼	11/21/22 16:12	11/23/22 13:25	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*	*11/21/22 16:12*	*11/23/22 13:25*	*100*
4-Bromofluorobenzene (Surr)	*98*		*76 - 122*	*11/21/22 16:12*	*11/23/22 13:25*	*100*
Dibromofluoromethane (Surr)	*102*		*80 - 120*	*11/21/22 16:12*	*11/23/22 13:25*	*100*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 129*	*11/21/22 16:12*	*11/23/22 13:25*	*100*

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.8	1.7	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
1,2-Dichlorobenzene	ND		9.8	1.5	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
1,3-Dichlorobenzene	ND		9.8	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
1,4-Dichlorobenzene	ND		9.8	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
1-Methylnaphthalene	ND		9.8	0.71	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2,4,5-Trichlorophenol	ND		9.8	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2,4,6-Trichlorophenol	ND		9.8	1.5	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2,4-Dichlorophenol	ND		9.8	2.0	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2,4-Dimethylphenol	ND		9.8	0.89	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2,4-Dinitrophenol	ND		39	31	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2,4-Dinitrotoluene	ND		9.8	2.1	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2,6-Dichlorophenol	ND		9.8	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2,6-Dinitrotoluene	ND		9.8	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2-Chloronaphthalene	ND		9.8	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2-Chlorophenol	ND		9.8	1.9	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2-Methylnaphthalene	ND		9.8	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2-Methylphenol	ND		9.8	1.9	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2-Nitroaniline	ND		9.8	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
2-Nitrophenol	ND		9.8	2.1	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
3 & 4 Methylphenol	ND		20	4.3	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
3,3'-Dichlorobenzidine	ND		49	16	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
3-Nitroaniline	ND		9.8	2.4	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
4,6-Dinitro-2-methylphenol	ND		49	19	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
4-Bromophenyl phenyl ether	ND		9.8	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
4-Chloro-3-methylphenol	ND		9.8	1.7	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
4-Chloroaniline	ND		9.8	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
4-Chlorophenyl phenyl ether	ND		9.8	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
4-Nitroaniline	ND		9.8	2.1	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
4-Nitrophenol	ND		9.8	3.3	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Acenaphthene	ND		9.8	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1

Client Sample ID: GAC-Drum-1-11142022
Date Collected: 11/14/22 12:10
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-1
Matrix: Solid
Percent Solids: 98.7

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		9.8	1.9	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Aniline	ND		9.8	2.3	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Anthracene	ND		9.8	0.99	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Azobenzene	ND		9.8	2.1	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Benzidine	ND		98	28	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Benzo[a]anthracene	ND		9.8	0.90	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Benzo[a]pyrene	ND		9.8	1.5	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Benzo[b]fluoranthene	ND		9.8	1.6	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Benzo[g,h,i]perylene	ND		9.8	1.6	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Benzo[k]fluoranthene	ND		9.8	1.9	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Benzoic acid	ND		49	31	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Benzyl alcohol	ND		9.8	1.7	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
bis (2-Chloroisopropyl) ether	ND		9.8	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Bis(2-chloroethoxy)methane	ND		9.8	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Bis(2-chloroethyl)ether	ND		49	2.0	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Bis(2-ethylhexyl) phthalate	ND		9.8	4.9	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Butyl benzyl phthalate	ND		9.8	4.4	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Chrysene	ND		9.8	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Dibenz(a,h)anthracene	ND		9.8	2.0	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Dibenzofuran	ND		9.8	1.9	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Diethyl phthalate	ND		9.8	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Dimethyl phthalate	ND		9.8	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Di-n-butyl phthalate	ND		9.8	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Di-n-octyl phthalate	ND		9.8	7.1	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Fluoranthene	ND		9.8	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Fluorene	ND		9.8	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Hexachlorobutadiene	ND		9.8	0.98	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Hexachlorobenzene	ND		9.8	1.8	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Hexachlorocyclopentadiene	ND		30	7.4	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Hexachloroethane	ND		9.8	2.1	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Indeno[1,2,3-cd]pyrene	ND		9.8	1.8	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Isophorone	ND		9.8	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Naphthalene	ND		9.8	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Nitrobenzene	ND		39	1.8	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
N-Nitrosodimethylamine	ND		9.8	1.5	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
N-Nitrosodi-n-propylamine	ND		9.8	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
N-Nitrosodiphenylamine	ND		9.8	1.9	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Pentachlorophenol	ND		49	20	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Phenanthrene	ND		9.8	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Phenol	ND		9.8	1.9	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Pyrene	ND		9.8	1.5	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1
Pyridine	ND		9.8	1.6	mg/Kg	☼	11/17/22 06:45	11/18/22 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*9*	*S1-*	*10 - 134*	*11/17/22 06:45*	*11/18/22 20:58*	*1*
2-Fluorobiphenyl (Surr)	*11*	*S1-*	*14 - 142*	*11/17/22 06:45*	*11/18/22 20:58*	*1*
2-Fluorophenol (Surr)	*37*		*10 - 123*	*11/17/22 06:45*	*11/18/22 20:58*	*1*
Nitrobenzene-d5 (Surr)	*21*		*10 - 129*	*11/17/22 06:45*	*11/18/22 20:58*	*1*
Phenol-d6 (Surr)	*46*		*10 - 120*	*11/17/22 06:45*	*11/18/22 20:58*	*1*
p-Terphenyl-d14 (Surr)	*1*	*S1-*	*31 - 139*	*11/17/22 06:45*	*11/18/22 20:58*	*1*

Client Sample ID: GAC-Drum-1-11142022

Lab Sample ID: 590-19244-1

Date Collected: 11/14/22 12:10
Date Received: 11/14/22 16:16

Matrix: Solid
Percent Solids: 98.7

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	F1 F2	0.081	0.035	ug/Kg	☼	11/21/22 14:47	11/21/22 22:17	1
1,2-Dibromo-3-Chloropropane	ND	F1	0.081	0.030	ug/Kg	☼	11/21/22 14:47	11/21/22 22:17	1
1,2,3-Trichloropropane	ND	F1	0.081	0.020	ug/Kg	☼	11/21/22 14:47	11/21/22 22:17	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.013**	**J**	0.025	0.010	mg/L		11/30/22 14:45	11/30/22 17:21	1
Barium	**0.27**	**B**	0.025	0.0014	mg/L		11/30/22 14:45	11/30/22 17:21	1
Cadmium	ND		0.025	0.0012	mg/L		11/30/22 14:45	11/30/22 17:21	1
Chromium	ND		0.025	0.0017	mg/L		11/30/22 14:45	11/30/22 17:21	1
Lead	ND		0.060	0.0051	mg/L		11/30/22 14:45	11/30/22 17:21	1
Selenium	ND		0.10	0.049	mg/L		11/30/22 14:45	11/30/22 17:21	1
Silver	ND		0.025	0.0025	mg/L		11/30/22 14:45	12/01/22 12:27	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20	0.090	ug/L		11/30/22 14:47	11/30/22 18:32	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.3**		0.01	0.01	%			11/18/22 14:52	1
Percent Solids (EPA Moisture)	**98.7**		0.01	0.01	%			11/18/22 14:52	1

Client Sample ID: GAC-Drum-2-11142022

Lab Sample ID: 590-19244-2

Date Collected: 11/14/22 12:20
Date Received: 11/14/22 16:16

Matrix: Solid
Percent Solids: 98.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		41	12	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Chloromethane	ND		200	17	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Vinyl chloride	ND		25	8.3	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Bromomethane	ND		200	14	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Chloroethane	ND		82	23	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Trichlorofluoromethane	**250**		82	13	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,1-Dichloroethene	ND		41	14	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Methylene Chloride	ND		140	82	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
trans-1,2-Dichloroethene	ND		41	9.4	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,1-Dichloroethane	ND		41	11	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
2,2-Dichloropropane	ND		41	10	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
cis-1,2-Dichloroethene	ND		41	8.5	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Bromochloromethane	ND		41	16	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Chloroform	**19**	**J**	41	9.6	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,1,1-Trichloroethane	ND		41	7.1	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Carbon tetrachloride	ND		41	4.5	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,1-Dichloropropene	ND		41	7.1	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Benzene	ND		8.2	4.1	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,2-Dichloroethane	ND		41	2.9	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Trichloroethene	ND		10	3.1	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,2-Dichloropropane	ND		49	12	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Dibromomethane	ND		41	9.1	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100

Client Sample ID: GAC-Drum-2-11142022
Date Collected: 11/14/22 12:20
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-2
Matrix: Solid
Percent Solids: 98.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		41	25	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
cis-1,3-Dichloropropene	ND		41	8.4	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Toluene	ND		41	5.4	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
trans-1,3-Dichloropropene	ND		41	11	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,1,2-Trichloroethane	ND		41	14	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Tetrachloroethene	ND		16	7.2	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,3-Dichloropropane	ND		41	12	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Dibromochloromethane	ND		82	6.6	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,2-Dibromoethane (EDB)	ND		41	14	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Chlorobenzene	ND		41	8.5	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Ethylbenzene	ND		41	6.6	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,1,1,2-Tetrachloroethane	ND		41	7.9	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,1,2,2-Tetrachloroethane	ND		41	12	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
m,p-Xylene	ND		160	12	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
o-Xylene	ND		82	9.4	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Styrene	ND		41	9.7	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Bromoform	ND		82	7.8	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Isopropylbenzene	ND		41	13	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Bromobenzene	ND		41	9.1	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
N-Propylbenzene	ND		41	11	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,2,3-Trichloropropane	ND		82	15	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
2-Chlorotoluene	ND		41	6.7	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,3,5-Trimethylbenzene	ND		41	13	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
4-Chlorotoluene	ND		41	3.6	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
tert-Butylbenzene	ND		41	8.0	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,2,4-Trimethylbenzene	ND		41	9.6	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
sec-Butylbenzene	ND		41	7.6	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,3-Dichlorobenzene	ND		41	5.2	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
p-Isopropyltoluene	ND		41	8.4	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,4-Dichlorobenzene	ND		41	8.4	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
n-Butylbenzene	ND		41	11	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,2-Dichlorobenzene	ND		41	9.5	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,2-Dibromo-3-Chloropropane	ND		200	25	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,2,4-Trichlorobenzene	**17**	**J**	41	7.6	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
1,2,3-Trichlorobenzene	**26**	**J**	41	14	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Hexachlorobutadiene	**26**	**J**	41	6.7	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Naphthalene	**17**	**J**	82	11	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100
Methyl tert-butyl ether	ND		20	12	mg/Kg	☼	11/21/22 16:12	11/23/22 14:52	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*	*11/21/22 16:12*	*11/23/22 14:52*	*100*
4-Bromofluorobenzene (Surr)	*101*		*76 - 122*	*11/21/22 16:12*	*11/23/22 14:52*	*100*
Dibromofluoromethane (Surr)	*99*		*80 - 120*	*11/21/22 16:12*	*11/23/22 14:52*	*100*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 129*	*11/21/22 16:12*	*11/23/22 14:52*	*100*

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.4	1.7	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
1,2-Dichlorobenzene	ND		9.4	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
1,3-Dichlorobenzene	ND		9.4	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1

Client Sample ID: GAC-Drum-2-11142022
Date Collected: 11/14/22 12:20
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-2
Matrix: Solid
Percent Solids: 98.9

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		9.4	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
1-Methylnaphthalene	ND		9.4	0.68	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2,4,5-Trichlorophenol	ND		9.4	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2,4,6-Trichlorophenol	ND		9.4	1.5	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2,4-Dichlorophenol	ND		9.4	1.9	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2,4-Dimethylphenol	ND		9.4	0.85	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2,4-Dinitrophenol	ND		37	30	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2,4-Dinitrotoluene	ND		9.4	2.0	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2,6-Dichlorophenol	ND		9.4	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2,6-Dinitrotoluene	ND		9.4	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2-Chloronaphthalene	ND		9.4	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2-Chlorophenol	ND		9.4	1.8	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2-Methylnaphthalene	ND		9.4	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2-Methylphenol	ND		9.4	1.8	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2-Nitroaniline	ND		9.4	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
2-Nitrophenol	ND		9.4	2.0	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
3 & 4 Methylphenol	ND		19	4.0	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
3,3'-Dichlorobenzidine	ND		47	15	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
3-Nitroaniline	ND		9.4	2.3	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
4,6-Dinitro-2-methylphenol	ND		47	18	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
4-Bromophenyl phenyl ether	ND		9.4	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
4-Chloro-3-methylphenol	ND		9.4	1.6	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
4-Chloroaniline	ND		9.4	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
4-Chlorophenyl phenyl ether	ND		9.4	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
4-Nitroaniline	ND		9.4	2.0	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
4-Nitrophenol	ND		9.4	3.1	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Acenaphthene	ND		9.4	1.0	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Acenaphthylene	ND		9.4	1.8	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Aniline	ND		9.4	2.2	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Anthracene	ND		9.4	0.95	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Azobenzene	ND		9.4	2.0	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Benzidine	ND		94	27	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Benzo[a]anthracene	ND		9.4	0.85	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Benzo[a]pyrene	ND		9.4	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Benzo[b]fluoranthene	ND		9.4	1.5	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Benzo[g,h,i]perylene	ND		9.4	1.6	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Benzo[k]fluoranthene	ND		9.4	1.8	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Benzoic acid	ND		47	30	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Benzyl alcohol	ND		9.4	1.6	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
bis (2-Chloroisopropyl) ether	ND		9.4	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Bis(2-chloroethoxy)methane	ND		9.4	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Bis(2-chloroethyl)ether	ND		47	1.9	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Bis(2-ethylhexyl) phthalate	ND		9.4	4.7	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Butyl benzyl phthalate	ND		9.4	4.1	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Chrysene	ND		9.4	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Dibenz(a,h)anthracene	ND		9.4	1.9	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Dibenzofuran	ND		9.4	1.8	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Diethyl phthalate	ND		9.4	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Dimethyl phthalate	ND		9.4	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1

Client Sample ID: GAC-Drum-2-11142022
Date Collected: 11/14/22 12:20
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-2
Matrix: Solid
Percent Solids: 98.9

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		9.4	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Di-n-octyl phthalate	ND		9.4	6.7	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Fluoranthene	ND		9.4	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Fluorene	ND		9.4	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Hexachlorobutadiene	ND		9.4	0.94	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Hexachlorobenzene	ND		9.4	1.7	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Hexachlorocyclopentadiene	ND		28	7.0	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Hexachloroethane	ND		9.4	2.0	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Indeno[1,2,3-cd]pyrene	ND		9.4	1.7	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Isophorone	ND		9.4	1.3	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Naphthalene	ND		9.4	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Nitrobenzene	ND		37	1.7	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
N-Nitrosodimethylamine	ND		9.4	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
N-Nitrosodi-n-propylamine	ND		9.4	1.2	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
N-Nitrosodiphenylamine	ND		9.4	1.8	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Pentachlorophenol	ND		47	19	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Phenanthrene	ND		9.4	1.1	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Phenol	ND		9.4	1.8	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Pyrene	ND		9.4	1.4	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1
Pyridine	ND		9.4	1.5	mg/Kg	☼	11/17/22 06:45	11/18/22 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*8*	*S1-*	*10 - 134*	*11/17/22 06:45*	*11/18/22 21:16*	*1*
2-Fluorobiphenyl (Surr)	*12*	*S1-*	*14 - 142*	*11/17/22 06:45*	*11/18/22 21:16*	*1*
2-Fluorophenol (Surr)	*37*		*10 - 123*	*11/17/22 06:45*	*11/18/22 21:16*	*1*
Nitrobenzene-d5 (Surr)	*23*		*10 - 129*	*11/17/22 06:45*	*11/18/22 21:16*	*1*
Phenol-d6 (Surr)	*47*		*10 - 120*	*11/17/22 06:45*	*11/18/22 21:16*	*1*
p-Terphenyl-d14 (Surr)	*0.6*	*S1-*	*31 - 139*	*11/17/22 06:45*	*11/18/22 21:16*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.080	0.035	ug/Kg	☼	11/21/22 14:47	11/21/22 23:05	1
1,2-Dibromo-3-Chloropropane	ND		0.080	0.030	ug/Kg	☼	11/21/22 14:47	11/21/22 23:05	1
1,2,3-Trichloropropane	ND		0.080	0.020	ug/Kg	☼	11/21/22 14:47	11/21/22 23:05	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.016**	**J**	0.025	0.010	mg/L		11/30/22 14:45	11/30/22 17:46	1
Barium	**0.28**	**B**	0.025	0.0014	mg/L		11/30/22 14:45	11/30/22 17:46	1
Cadmium	ND		0.025	0.0012	mg/L		11/30/22 14:45	11/30/22 17:46	1
Chromium	ND		0.025	0.0017	mg/L		11/30/22 14:45	11/30/22 17:46	1
Lead	ND		0.060	0.0051	mg/L		11/30/22 14:45	11/30/22 17:46	1
Selenium	ND		0.10	0.049	mg/L		11/30/22 14:45	11/30/22 17:46	1
Silver	ND		0.025	0.0025	mg/L		11/30/22 14:45	12/01/22 17:14	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20	0.090	ug/L		11/30/22 14:47	11/30/22 18:42	1

Client Sample Results

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19244-1

Client Sample ID: GAC-Drum-2-11142022
Date Collected: 11/14/22 12:20
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-2
Matrix: Solid
Percent Solids: 98.9

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.1		0.01	0.01	%			11/18/22 14:52	1
Percent Solids (EPA Moisture)	98.9		0.01	0.01	%			11/18/22 14:52	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-39168/1-A
Matrix: Solid
Analysis Batch: 39203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.10	0.028	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Chloromethane	ND		0.50	0.042	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Vinyl chloride	ND		0.060	0.020	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Bromomethane	ND		0.50	0.033	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Chloroethane	ND		0.20	0.056	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Trichlorofluoromethane	ND		0.20	0.033	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,1-Dichloroethene	ND		0.10	0.034	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Methylene Chloride	ND		0.35	0.20	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
trans-1,2-Dichloroethene	ND		0.10	0.023	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,1-Dichloroethane	ND		0.10	0.026	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
2,2-Dichloropropane	ND		0.10	0.024	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
cis-1,2-Dichloroethene	ND		0.10	0.021	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Bromochloromethane	ND		0.10	0.040	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Chloroform	ND		0.10	0.024	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,1,1-Trichloroethane	ND		0.10	0.017	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Carbon tetrachloride	ND		0.10	0.011	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,1-Dichloropropene	ND		0.10	0.017	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Benzene	ND		0.020	0.010	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,2-Dichloroethane	ND		0.10	0.0070	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Trichloroethene	ND		0.025	0.0076	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,2-Dichloropropane	ND		0.12	0.030	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Dibromomethane	ND		0.10	0.022	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Bromodichloromethane	ND		0.10	0.062	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
cis-1,3-Dichloropropene	ND		0.10	0.020	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Toluene	ND		0.10	0.013	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
trans-1,3-Dichloropropene	ND		0.10	0.026	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,1,2-Trichloroethane	ND		0.10	0.035	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Tetrachloroethene	ND		0.040	0.018	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,3-Dichloropropane	ND		0.10	0.030	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Dibromochloromethane	ND		0.20	0.016	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,2-Dibromoethane (EDB)	ND		0.10	0.034	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Chlorobenzene	ND		0.10	0.021	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Ethylbenzene	ND		0.10	0.016	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,1,1,2-Tetrachloroethane	ND		0.10	0.019	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,1,2,2-Tetrachloroethane	ND		0.10	0.029	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
m,p-Xylene	ND		0.40	0.029	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
o-Xylene	ND		0.20	0.023	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Styrene	ND		0.10	0.024	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Bromoform	ND		0.20	0.019	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Isopropylbenzene	ND		0.10	0.031	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Bromobenzene	ND		0.10	0.022	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
N-Propylbenzene	ND		0.10	0.026	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,2,3-Trichloropropane	ND		0.20	0.037	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
2-Chlorotoluene	ND		0.10	0.016	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,3,5-Trimethylbenzene	ND		0.10	0.032	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
4-Chlorotoluene	ND		0.10	0.0087	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
tert-Butylbenzene	ND		0.10	0.020	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,2,4-Trimethylbenzene	ND		0.10	0.023	mg/Kg		11/21/22 16:12	11/23/22 12:43	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 590-39168/1-A
Matrix: Solid
Analysis Batch: 39203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.10	0.019	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,3-Dichlorobenzene	ND		0.10	0.013	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
p-Isopropyltoluene	ND		0.10	0.020	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,4-Dichlorobenzene	ND		0.10	0.021	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
n-Butylbenzene	ND		0.10	0.028	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,2-Dichlorobenzene	ND		0.10	0.023	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.060	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,2,4-Trichlorobenzene	ND		0.10	0.019	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
1,2,3-Trichlorobenzene	ND		0.10	0.033	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Hexachlorobutadiene	ND		0.10	0.016	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Naphthalene	ND		0.20	0.028	mg/Kg		11/21/22 16:12	11/23/22 12:43	1
Methyl tert-butyl ether	ND		0.050	0.030	mg/Kg		11/21/22 16:12	11/23/22 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*	*11/21/22 16:12*	*11/23/22 12:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 122*	*11/21/22 16:12*	*11/23/22 12:43*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*	*11/21/22 16:12*	*11/23/22 12:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 129*	*11/21/22 16:12*	*11/23/22 12:43*	*1*

Lab Sample ID: LCS 590-39168/2-A
Matrix: Solid
Analysis Batch: 39203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.500	0.333		mg/Kg		67	34 - 120
Chloromethane	0.500	0.429	J	mg/Kg		86	42 - 120
Vinyl chloride	0.500	0.515		mg/Kg		103	66 - 129
Bromomethane	0.500	0.529		mg/Kg		106	56 - 138
Chloroethane	0.500	0.516		mg/Kg		103	50 - 150
Trichlorofluoromethane	0.500	0.546		mg/Kg		109	64 - 143
1,1-Dichloroethene	0.500	0.581		mg/Kg		116	63 - 150
Methylene Chloride	0.500	0.594		mg/Kg		119	47 - 150
trans-1,2-Dichloroethene	0.500	0.591		mg/Kg		118	80 - 138
1,1-Dichloroethane	0.500	0.578		mg/Kg		116	80 - 136
2,2-Dichloropropane	0.500	0.572		mg/Kg		114	73 - 150
cis-1,2-Dichloroethene	0.500	0.543		mg/Kg		109	80 - 144
Bromochloromethane	0.500	0.548		mg/Kg		110	75 - 148
Chloroform	0.500	0.568		mg/Kg		114	80 - 150
1,1,1-Trichloroethane	0.500	0.585		mg/Kg		117	80 - 150
Carbon tetrachloride	0.500	0.585		mg/Kg		117	72 - 150
1,1-Dichloropropene	0.500	0.571		mg/Kg		114	78 - 145
Benzene	0.500	0.565		mg/Kg		113	76 - 139
1,2-Dichloroethane	0.500	0.538		mg/Kg		108	73 - 150
Trichloroethene	0.500	0.570		mg/Kg		114	79 - 144
1,2-Dichloropropane	0.500	0.516		mg/Kg		103	75 - 135
Dibromomethane	0.500	0.485		mg/Kg		97	80 - 140
Bromodichloromethane	0.500	0.540		mg/Kg		108	80 - 146
cis-1,3-Dichloropropene	0.500	0.528		mg/Kg		106	80 - 136

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 590-39168/2-A
Matrix: Solid
Analysis Batch: 39203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.500	0.559		mg/Kg		112	77 - 131
trans-1,3-Dichloropropene	0.500	0.529		mg/Kg		106	80 - 124
1,1,2-Trichloroethane	0.500	0.529		mg/Kg		106	80 - 132
Tetrachloroethene	0.500	0.556		mg/Kg		111	77 - 149
1,3-Dichloropropane	0.500	0.521		mg/Kg		104	76 - 125
Dibromochloromethane	0.500	0.539		mg/Kg		108	78 - 136
1,2-Dibromoethane (EDB)	0.500	0.519		mg/Kg		104	75 - 129
Chlorobenzene	0.500	0.544		mg/Kg		109	80 - 136
Ethylbenzene	0.500	0.582		mg/Kg		116	77 - 135
1,1,1,2-Tetrachloroethane	0.500	0.561		mg/Kg		112	80 - 128
1,1,2,2-Tetrachloroethane	0.500	0.505		mg/Kg		101	75 - 137
m,p-Xylene	0.500	0.597		mg/Kg		119	78 - 130
o-Xylene	0.500	0.569		mg/Kg		114	77 - 129
Styrene	0.500	0.584		mg/Kg		117	80 - 128
Bromoform	0.500	0.525		mg/Kg		105	72 - 133
Isopropylbenzene	0.500	0.593		mg/Kg		119	78 - 139
Bromobenzene	0.500	0.528		mg/Kg		106	75 - 142
N-Propylbenzene	0.500	0.589		mg/Kg		118	77 - 140
1,2,3-Trichloropropane	0.500	0.492		mg/Kg		98	67 - 144
2-Chlorotoluene	0.500	0.577		mg/Kg		115	77 - 135
1,3,5-Trimethylbenzene	0.500	0.579		mg/Kg		116	76 - 133
4-Chlorotoluene	0.500	0.581		mg/Kg		116	77 - 133
tert-Butylbenzene	0.500	0.579		mg/Kg		116	76 - 130
1,2,4-Trimethylbenzene	0.500	0.573		mg/Kg		115	76 - 139
sec-Butylbenzene	0.500	0.594		mg/Kg		119	76 - 139
1,3-Dichlorobenzene	0.500	0.552		mg/Kg		110	80 - 133
p-Isopropyltoluene	0.500	0.572		mg/Kg		114	80 - 140
1,4-Dichlorobenzene	0.500	0.532		mg/Kg		106	80 - 133
n-Butylbenzene	0.500	0.571		mg/Kg		114	80 - 131
1,2-Dichlorobenzene	0.500	0.523		mg/Kg		105	80 - 135
1,2-Dibromo-3-Chloropropane	0.500	0.498	J	mg/Kg		100	65 - 139
1,2,4-Trichlorobenzene	0.500	0.502		mg/Kg		100	67 - 140
1,2,3-Trichlorobenzene	0.500	0.476		mg/Kg		95	66 - 143
Hexachlorobutadiene	0.500	0.524		mg/Kg		105	59 - 150
Naphthalene	0.500	0.469		mg/Kg		94	67 - 129
Methyl tert-butyl ether	0.500	0.539		mg/Kg		108	80 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*76 - 122*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 129*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-19244-1 MS
Matrix: Solid
Analysis Batch: 39203

Client Sample ID: GAC-Drum-1-11142022
Prep Type: Total/NA
Prep Batch: 39168

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	ND		186	184		mg/Kg	☼	99	34 - 120
Chloromethane	ND		186	193		mg/Kg	☼	104	42 - 120
Vinyl chloride	ND		186	203		mg/Kg	☼	109	66 - 129
Bromomethane	ND	F2	186	183	J	mg/Kg	☼	99	56 - 138
Chloroethane	ND		186	183		mg/Kg	☼	98	50 - 150
Trichlorofluoromethane	250		186	436		mg/Kg	☼	102	64 - 143
1,1-Dichloroethene	ND		186	196		mg/Kg	☼	105	63 - 150
Methylene Chloride	ND		186	210		mg/Kg	☼	113	47 - 150
trans-1,2-Dichloroethene	ND		186	207		mg/Kg	☼	111	80 - 138
1,1-Dichloroethane	ND		186	196		mg/Kg	☼	106	80 - 136
2,2-Dichloropropane	ND		186	193		mg/Kg	☼	104	73 - 150
cis-1,2-Dichloroethene	ND		186	188		mg/Kg	☼	101	80 - 144
Bromochloromethane	ND		186	190		mg/Kg	☼	102	75 - 148
Chloroform	19	J	186	210		mg/Kg	☼	103	80 - 150
1,1,1-Trichloroethane	ND		186	203		mg/Kg	☼	109	80 - 150
Carbon tetrachloride	ND		186	192		mg/Kg	☼	103	72 - 150
1,1-Dichloropropene	ND		186	196		mg/Kg	☼	105	78 - 145
Benzene	ND		186	191		mg/Kg	☼	103	76 - 139
1,2-Dichloroethane	ND		186	183		mg/Kg	☼	98	73 - 150
Trichloroethene	ND		186	193		mg/Kg	☼	104	79 - 144
1,2-Dichloropropane	ND		186	187		mg/Kg	☼	100	75 - 135
Dibromomethane	ND		186	164		mg/Kg	☼	88	80 - 140
Bromodichloromethane	ND		186	180		mg/Kg	☼	97	80 - 146
cis-1,3-Dichloropropene	ND		186	173		mg/Kg	☼	93	80 - 136
Toluene	ND		186	189		mg/Kg	☼	102	77 - 131
trans-1,3-Dichloropropene	ND		186	185		mg/Kg	☼	100	80 - 124
1,1,2-Trichloroethane	ND		186	183		mg/Kg	☼	98	80 - 132
Tetrachloroethene	ND		186	193		mg/Kg	☼	104	77 - 149
1,3-Dichloropropane	ND		186	179		mg/Kg	☼	96	76 - 125
Dibromochloromethane	ND		186	187		mg/Kg	☼	101	78 - 136
1,2-Dibromoethane (EDB)	ND		186	180		mg/Kg	☼	97	75 - 129
Chlorobenzene	ND		186	183		mg/Kg	☼	98	80 - 136
Ethylbenzene	ND		186	192		mg/Kg	☼	103	77 - 135
1,1,1,2-Tetrachloroethane	ND		186	191		mg/Kg	☼	103	80 - 128
1,1,2,2-Tetrachloroethane	ND		186	171		mg/Kg	☼	92	75 - 137
m,p-Xylene	ND		186	194		mg/Kg	☼	104	78 - 130
o-Xylene	ND		186	188		mg/Kg	☼	101	77 - 129
Styrene	ND		186	187		mg/Kg	☼	101	80 - 128
Bromoform	ND		186	182		mg/Kg	☼	98	72 - 133
Isopropylbenzene	ND		186	195		mg/Kg	☼	105	78 - 139
Bromobenzene	ND		186	177		mg/Kg	☼	95	75 - 142
N-Propylbenzene	ND		186	190		mg/Kg	☼	102	77 - 140
1,2,3-Trichloropropane	ND		186	174		mg/Kg	☼	94	67 - 144
2-Chlorotoluene	ND		186	186		mg/Kg	☼	100	77 - 135
1,3,5-Trimethylbenzene	ND		186	190		mg/Kg	☼	102	76 - 133
4-Chlorotoluene	ND		186	187		mg/Kg	☼	101	77 - 133
tert-Butylbenzene	ND		186	190		mg/Kg	☼	102	76 - 130
1,2,4-Trimethylbenzene	ND		186	185		mg/Kg	☼	100	76 - 139

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-19244-1 MS
Matrix: Solid
Analysis Batch: 39203

Client Sample ID: GAC-Drum-1-11142022
Prep Type: Total/NA
Prep Batch: 39168

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
sec-Butylbenzene	ND		186	189		mg/Kg	☼	102	76 - 139
1,3-Dichlorobenzene	ND		186	183		mg/Kg	☼	99	80 - 133
p-Isopropyltoluene	ND		186	186		mg/Kg	☼	100	80 - 140
1,4-Dichlorobenzene	ND		186	182		mg/Kg	☼	98	80 - 133
n-Butylbenzene	ND		186	180		mg/Kg	☼	97	80 - 131
1,2-Dichlorobenzene	ND		186	172		mg/Kg	☼	93	80 - 135
1,2-Dibromo-3-Chloropropane	ND		186	160	J	mg/Kg	☼	86	65 - 139
1,2,4-Trichlorobenzene	20	J	186	170		mg/Kg	☼	81	67 - 140
1,2,3-Trichlorobenzene	31	J	186	153		mg/Kg	☼	66	66 - 143
Hexachlorobutadiene	23	J	186	191		mg/Kg	☼	90	59 - 150
Naphthalene	23	J	186	156		mg/Kg	☼	71	67 - 129
Methyl tert-butyl ether	ND		186	185		mg/Kg	☼	100	80 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*76 - 122*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 129*

Lab Sample ID: 590-19244-1 MSD
Matrix: Solid
Analysis Batch: 39203

Client Sample ID: GAC-Drum-1-11142022
Prep Type: Total/NA
Prep Batch: 39168

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND		186	181		mg/Kg	☼	97	34 - 120	2	13
Chloromethane	ND		186	200		mg/Kg	☼	107	42 - 120	3	12
Vinyl chloride	ND		186	206		mg/Kg	☼	111	66 - 129	2	20
Bromomethane	ND	F2	186	107	J F2	mg/Kg	☼	58	56 - 138	52	14
Chloroethane	ND		186	170		mg/Kg	☼	91	50 - 150	7	17
Trichlorofluoromethane	250		186	420		mg/Kg	☼	94	64 - 143	4	10
1,1-Dichloroethene	ND		186	200		mg/Kg	☼	108	63 - 150	2	40
Methylene Chloride	ND		186	203		mg/Kg	☼	109	47 - 150	3	40
trans-1,2-Dichloroethene	ND		186	201		mg/Kg	☼	108	80 - 138	3	16
1,1-Dichloroethane	ND		186	196		mg/Kg	☼	106	80 - 136	0	16
2,2-Dichloropropane	ND		186	187		mg/Kg	☼	101	73 - 150	3	13
cis-1,2-Dichloroethene	ND		186	193		mg/Kg	☼	104	80 - 144	2	15
Bromochloromethane	ND		186	194		mg/Kg	☼	104	75 - 148	2	32
Chloroform	19	J	186	207		mg/Kg	☼	102	80 - 150	1	15
1,1,1-Trichloroethane	ND		186	201		mg/Kg	☼	108	80 - 150	1	10
Carbon tetrachloride	ND		186	193		mg/Kg	☼	104	72 - 150	1	17
1,1-Dichloropropene	ND		186	198		mg/Kg	☼	107	78 - 145	1	14
Benzene	ND		186	195		mg/Kg	☼	105	76 - 139	2	14
1,2-Dichloroethane	ND		186	192		mg/Kg	☼	103	73 - 150	5	25
Trichloroethene	ND		186	192		mg/Kg	☼	103	79 - 144	1	13
1,2-Dichloropropane	ND		186	194		mg/Kg	☼	105	75 - 135	4	20
Dibromomethane	ND		186	176		mg/Kg	☼	95	80 - 140	7	24
Bromodichloromethane	ND		186	180		mg/Kg	☼	97	80 - 146	0	19
cis-1,3-Dichloropropene	ND		186	172		mg/Kg	☼	93	80 - 136	1	17

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-19244-1 MSD
Matrix: Solid
Analysis Batch: 39203

Client Sample ID: GAC-Drum-1-11142022
Prep Type: Total/NA
Prep Batch: 39168

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	ND		186	188		mg/Kg	☼	101	77 - 131	0	14
trans-1,3-Dichloropropene	ND		186	182		mg/Kg	☼	98	80 - 124	1	14
1,1,2-Trichloroethane	ND		186	191		mg/Kg	☼	103	80 - 132	5	12
Tetrachloroethene	ND		186	200		mg/Kg	☼	108	77 - 149	3	10
1,3-Dichloropropane	ND		186	181		mg/Kg	☼	97	76 - 125	1	24
Dibromochloromethane	ND		186	190		mg/Kg	☼	102	78 - 136	2	18
1,2-Dibromoethane (EDB)	ND		186	183		mg/Kg	☼	98	75 - 129	2	18
Chlorobenzene	ND		186	184		mg/Kg	☼	99	80 - 136	0	10
Ethylbenzene	ND		186	191		mg/Kg	☼	103	77 - 135	1	13
1,1,1,2-Tetrachloroethane	ND		186	206		mg/Kg	☼	111	80 - 128	8	25
1,1,2,2-Tetrachloroethane	ND		186	170		mg/Kg	☼	91	75 - 137	1	15
m,p-Xylene	ND		186	193		mg/Kg	☼	104	78 - 130	0	23
o-Xylene	ND		186	195		mg/Kg	☼	105	77 - 129	4	15
Styrene	ND		186	178		mg/Kg	☼	96	80 - 128	5	25
Bromoform	ND		186	185		mg/Kg	☼	100	72 - 133	1	10
Isopropylbenzene	ND		186	201		mg/Kg	☼	108	78 - 139	3	10
Bromobenzene	ND		186	168		mg/Kg	☼	91	75 - 142	5	25
N-Propylbenzene	ND		186	174		mg/Kg	☼	94	77 - 140	9	25
1,2,3-Trichloropropane	ND		186	165		mg/Kg	☼	89	67 - 144	5	40
2-Chlorotoluene	ND		186	172		mg/Kg	☼	93	77 - 135	8	35
1,3,5-Trimethylbenzene	ND		186	180		mg/Kg	☼	97	76 - 133	5	20
4-Chlorotoluene	ND		186	178		mg/Kg	☼	96	77 - 133	5	17
tert-Butylbenzene	ND		186	176		mg/Kg	☼	95	76 - 130	7	16
1,2,4-Trimethylbenzene	ND		186	179		mg/Kg	☼	96	76 - 139	4	21
sec-Butylbenzene	ND		186	177		mg/Kg	☼	95	76 - 139	6	18
1,3-Dichlorobenzene	ND		186	185		mg/Kg	☼	99	80 - 133	1	18
p-Isopropyltoluene	ND		186	178		mg/Kg	☼	96	80 - 140	4	19
1,4-Dichlorobenzene	ND		186	174		mg/Kg	☼	94	80 - 133	4	16
n-Butylbenzene	ND		186	177		mg/Kg	☼	95	80 - 131	1	20
1,2-Dichlorobenzene	ND		186	176		mg/Kg	☼	95	80 - 135	2	17
1,2-Dibromo-3-Chloropropane	ND		186	170	J	mg/Kg	☼	91	65 - 139	6	27
1,2,4-Trichlorobenzene	20	J	186	167		mg/Kg	☼	79	67 - 140	2	25
1,2,3-Trichlorobenzene	31	J	186	168		mg/Kg	☼	74	66 - 143	9	16
Hexachlorobutadiene	23	J	186	176		mg/Kg	☼	82	59 - 150	8	19
Naphthalene	23	J	186	167		mg/Kg	☼	77	67 - 129	7	15
Methyl tert-butyl ether	ND		186	194		mg/Kg	☼	104	80 - 144	5	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*91*		*76 - 122*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 129*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-19244-1 DU
Matrix: Solid
Analysis Batch: 39203

Client Sample ID: GAC-Drum-1-11142022
Prep Type: Total/NA
Prep Batch: 39168

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Dichlorodifluoromethane	ND		ND		mg/Kg	☼	NC	24
Chloromethane	ND		ND		mg/Kg	☼	NC	22
Vinyl chloride	ND		ND		mg/Kg	☼	NC	20
Bromomethane	ND	F2	ND		mg/Kg	☼	NC	21
Chloroethane	ND		ND		mg/Kg	☼	NC	25
Trichlorofluoromethane	250		264		mg/Kg	☼	7	25
1,1-Dichloroethene	ND		ND		mg/Kg	☼	NC	18
Methylene Chloride	ND		ND		mg/Kg	☼	NC	40
trans-1,2-Dichloroethene	ND		ND		mg/Kg	☼	NC	25
1,1-Dichloroethane	ND		ND		mg/Kg	☼	NC	25
2,2-Dichloropropane	ND		ND		mg/Kg	☼	NC	22
cis-1,2-Dichloroethene	ND		ND		mg/Kg	☼	NC	23
Bromochloromethane	ND		ND		mg/Kg	☼	NC	25
Chloroform	19	J	ND		mg/Kg	☼	NC	25
1,1,1-Trichloroethane	ND		ND		mg/Kg	☼	NC	19
Carbon tetrachloride	ND		ND		mg/Kg	☼	NC	25
1,1-Dichloropropene	ND		ND		mg/Kg	☼	NC	24
Benzene	ND		ND		mg/Kg	☼	NC	25
1,2-Dichloroethane	ND		ND		mg/Kg	☼	NC	25
Trichloroethene	ND		ND		mg/Kg	☼	NC	25
1,2-Dichloropropane	ND		ND		mg/Kg	☼	NC	20
Dibromomethane	ND		ND		mg/Kg	☼	NC	24
Bromodichloromethane	ND		ND		mg/Kg	☼	NC	26
cis-1,3-Dichloropropene	ND		ND		mg/Kg	☼	NC	24
Toluene	ND		ND		mg/Kg	☼	NC	25
trans-1,3-Dichloropropene	ND		ND		mg/Kg	☼	NC	28
1,1,2-Trichloroethane	ND		ND		mg/Kg	☼	NC	31
Tetrachloroethene	ND		ND		mg/Kg	☼	NC	24
1,3-Dichloropropane	ND		ND		mg/Kg	☼	NC	16
Dibromochloromethane	ND		ND		mg/Kg	☼	NC	25
1,2-Dibromoethane (EDB)	ND		ND		mg/Kg	☼	NC	18
Chlorobenzene	ND		ND		mg/Kg	☼	NC	25
Ethylbenzene	ND		ND		mg/Kg	☼	NC	25
1,1,1,2-Tetrachloroethane	ND		ND		mg/Kg	☼	NC	25
1,1,2,2-Tetrachloroethane	ND		ND		mg/Kg	☼	NC	22
m,p-Xylene	ND		ND		mg/Kg	☼	NC	23
o-Xylene	ND		ND		mg/Kg	☼	NC	25
Styrene	ND		ND		mg/Kg	☼	NC	25
Bromoform	ND		ND		mg/Kg	☼	NC	34
Isopropylbenzene	ND		ND		mg/Kg	☼	NC	24
Bromobenzene	ND		ND		mg/Kg	☼	NC	25
N-Propylbenzene	ND		ND		mg/Kg	☼	NC	25
1,2,3-Trichloropropane	ND		ND		mg/Kg	☼	NC	27
2-Chlorotoluene	ND		ND		mg/Kg	☼	NC	20
1,3,5-Trimethylbenzene	ND		ND		mg/Kg	☼	NC	20
4-Chlorotoluene	ND		ND		mg/Kg	☼	NC	25
tert-Butylbenzene	ND		ND		mg/Kg	☼	NC	16
1,2,4-Trimethylbenzene	ND		ND		mg/Kg	☼	NC	21

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-19244-1 DU
Matrix: Solid
Analysis Batch: 39203

Client Sample ID: GAC-Drum-1-11142022
Prep Type: Total/NA
Prep Batch: 39168

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
sec-Butylbenzene	ND			ND		mg/Kg	☼			NC	34
1,3-Dichlorobenzene	ND			ND		mg/Kg	☼			NC	18
p-Isopropyltoluene	ND			ND		mg/Kg	☼			NC	26
1,4-Dichlorobenzene	ND			ND		mg/Kg	☼			NC	16
n-Butylbenzene	ND			ND		mg/Kg	☼			NC	20
1,2-Dichlorobenzene	ND			ND		mg/Kg	☼			NC	25
1,2-Dibromo-3-Chloropropane	ND			ND		mg/Kg	☼			NC	40
1,2,4-Trichlorobenzene	20	J		ND		mg/Kg	☼			NC	25
1,2,3-Trichlorobenzene	31	J		ND		mg/Kg	☼			NC	25
Hexachlorobutadiene	23	J		ND		mg/Kg	☼			NC	25
Naphthalene	23	J		ND		mg/Kg	☼			NC	36
Methyl tert-butyl ether	ND			ND		mg/Kg	☼			NC	25

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*76 - 122*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 129*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-282232/1-A
Matrix: Solid
Analysis Batch: 282755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 282232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.50	0.089	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
1,2-Dichlorobenzene	ND		0.50	0.074	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
1,3-Dichlorobenzene	ND		0.50	0.069	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
1,4-Dichlorobenzene	ND		0.50	0.071	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
1-Methylnaphthalene	ND		0.50	0.036	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2,4,5-Trichlorophenol	ND		0.50	0.070	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2,4,6-Trichlorophenol	ND		0.50	0.078	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2,4-Dichlorophenol	ND		0.50	0.10	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2,4-Dimethylphenol	ND		0.50	0.045	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2,4-Dinitrophenol	ND		2.0	1.6	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2,4-Dinitrotoluene	ND		0.50	0.11	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2,6-Dichlorophenol	ND		0.50	0.065	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2,6-Dinitrotoluene	ND		0.50	0.059	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2-Chloronaphthalene	ND		0.50	0.057	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2-Chlorophenol	ND		0.50	0.099	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2-Methylnaphthalene	ND		0.50	0.057	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2-Methylphenol	ND		0.50	0.094	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2-Nitroaniline	ND		0.50	0.065	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
2-Nitrophenol	ND		0.50	0.11	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
3 & 4 Methylphenol	ND		1.0	0.22	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
3,3'-Dichlorobenzidine	ND		2.5	0.81	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
3-Nitroaniline	ND		0.50	0.12	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
4,6-Dinitro-2-methylphenol	ND		2.5	0.97	mg/Kg		11/17/22 06:45	11/18/22 14:11	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-282232/1-A
Matrix: Solid
Analysis Batch: 282755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 282232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		0.50	0.059	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
4-Chloro-3-methylphenol	ND		0.50	0.084	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
4-Chloroaniline	ND		0.50	0.072	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
4-Chlorophenyl phenyl ether	ND		0.50	0.070	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
4-Nitroaniline	ND		0.50	0.11	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
4-Nitrophenol	ND		0.50	0.17	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Acenaphthene	ND		0.50	0.054	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Acenaphthylene	ND		0.50	0.096	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Aniline	ND		0.50	0.12	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Anthracene	ND		0.50	0.051	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Azobenzene	ND		0.50	0.11	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Benzidine	ND		5.0	1.4	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Benzo[a]anthracene	ND		0.50	0.046	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Benzo[a]pyrene	ND		0.50	0.076	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Benzo[b]fluoranthene	ND		0.50	0.080	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Benzo[g,h,i]perylene	ND		0.50	0.083	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Benzo[k]fluoranthene	ND		0.50	0.094	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Benzoic acid	ND		2.5	1.6	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Benzyl alcohol	ND		0.50	0.085	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
bis (2-Chloroisopropyl) ether	ND		0.50	0.060	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Bis(2-chloroethoxy)methane	ND		0.50	0.062	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Bis(2-chloroethyl)ether	ND		2.5	0.10	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Bis(2-ethylhexyl) phthalate	ND		0.50	0.25	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Butyl benzyl phthalate	ND		0.50	0.22	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Chrysene	ND		0.50	0.068	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Dibenz(a,h)anthracene	ND		0.50	0.10	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Dibenzofuran	ND		0.50	0.094	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Diethyl phthalate	ND		0.50	0.061	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Dimethyl phthalate	ND		0.50	0.063	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Di-n-butyl phthalate	ND		0.50	0.073	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Di-n-octyl phthalate	ND		0.50	0.36	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Fluoranthene	ND		0.50	0.058	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Fluorene	ND		0.50	0.067	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Hexachlorobutadiene	ND		0.50	0.050	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Hexachlorobenzene	ND		0.50	0.092	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Hexachlorocyclopentadiene	ND		1.5	0.38	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Hexachloroethane	ND		0.50	0.11	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.090	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Isophorone	ND		0.50	0.068	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Naphthalene	ND		0.50	0.058	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Nitrobenzene	ND		2.0	0.092	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
N-Nitrosodimethylamine	ND		0.50	0.077	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
N-Nitrosodi-n-propylamine	ND		0.50	0.067	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
N-Nitrosodiphenylamine	ND		0.50	0.095	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Pentachlorophenol	ND		2.5	1.0	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Phenanthrene	ND		0.50	0.061	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Phenol	ND		0.50	0.095	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Pyrene	ND		0.50	0.075	mg/Kg		11/17/22 06:45	11/18/22 14:11	1
Pyridine	ND		0.50	0.082	mg/Kg		11/17/22 06:45	11/18/22 14:11	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*88*		*10 - 134*	*11/17/22 06:45*	*11/18/22 14:11*	*1*
2-Fluorobiphenyl (Surr)	*88*		*14 - 142*	*11/17/22 06:45*	*11/18/22 14:11*	*1*
2-Fluorophenol (Surr)	*90*		*10 - 123*	*11/17/22 06:45*	*11/18/22 14:11*	*1*
Nitrobenzene-d5 (Surr)	*71*		*10 - 129*	*11/17/22 06:45*	*11/18/22 14:11*	*1*
Phenol-d6 (Surr)	*85*		*10 - 120*	*11/17/22 06:45*	*11/18/22 14:11*	*1*
p-Terphenyl-d14 (Surr)	*81*		*31 - 139*	*11/17/22 06:45*	*11/18/22 14:11*	*1*

Lab Sample ID: LCS 570-282232/2-A
Matrix: Solid
Analysis Batch: 282755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 282232

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,4-Trichlorobenzene			5.00	4.03		mg/Kg		81	59 - 120		
1,4-Dichlorobenzene			5.00	4.34		mg/Kg		87	64 - 120		
2,4-Dinitrotoluene			5.00	4.27		mg/Kg		85	64 - 120		
2-Chlorophenol			5.00	3.97		mg/Kg		79	65 - 121		
4-Chloro-3-methylphenol			5.00	3.23		mg/Kg		65	54 - 120		
4-Nitrophenol			5.00	2.94		mg/Kg		59	52 - 121		
Acenaphthene			5.00	3.78		mg/Kg		76	71 - 120		
Acenaphthylene			5.00	4.53		mg/Kg		91	77 - 125		
Butyl benzyl phthalate			5.00	3.29		mg/Kg		66	58 - 120		
Dimethyl phthalate			5.00	4.04		mg/Kg		81	58 - 120		
Fluorene			5.00	3.79		mg/Kg		76	72 - 120		
Naphthalene			5.00	3.50		mg/Kg		70	60 - 120		
N-Nitrosodi-n-propylamine			5.00	3.50		mg/Kg		70	61 - 123		
Pentachlorophenol			5.00	3.34		mg/Kg		67	27 - 120		
Phenol			5.00	3.68		mg/Kg		74	61 - 127		
Pyrene			5.00	3.68		mg/Kg		74	70 - 124		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*98*		*10 - 134*
2-Fluorobiphenyl (Surr)	*89*		*14 - 142*
2-Fluorophenol (Surr)	*90*		*10 - 123*
Nitrobenzene-d5 (Surr)	*64*		*10 - 129*
Phenol-d6 (Surr)	*88*		*10 - 120*
p-Terphenyl-d14 (Surr)	*83*		*31 - 139*

Lab Sample ID: LCSD 570-282232/3-A
Matrix: Solid
Analysis Batch: 282755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 282232

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			5.00	4.27		mg/Kg		85	59 - 120	6	20
1,4-Dichlorobenzene			5.00	4.52		mg/Kg		90	64 - 120	4	20
2,4-Dinitrotoluene			5.00	4.08		mg/Kg		82	64 - 120	5	20
2-Chlorophenol			5.00	4.14		mg/Kg		83	65 - 121	4	20
4-Chloro-3-methylphenol			5.00	3.22		mg/Kg		64	54 - 120	0	20
4-Nitrophenol			5.00	2.76		mg/Kg		55	52 - 121	6	20
Acenaphthene			5.00	3.93		mg/Kg		79	71 - 120	4	20
Acenaphthylene			5.00	4.63		mg/Kg		93	77 - 125	2	20
Butyl benzyl phthalate			5.00	3.47		mg/Kg		69	58 - 120	5	20

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-282232/3-A
Matrix: Solid
Analysis Batch: 282755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 282232

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethyl phthalate			5.00	4.03		mg/Kg		81	58 - 120	0	20
Fluorene			5.00	3.77		mg/Kg		75	72 - 120	1	20
Naphthalene			5.00	3.70		mg/Kg		74	60 - 120	5	20
N-Nitrosodi-n-propylamine			5.00	3.57		mg/Kg		71	61 - 123	2	20
Pentachlorophenol			5.00	3.53		mg/Kg		71	27 - 120	5	20
Phenol			5.00	3.81		mg/Kg		76	61 - 127	3	20
Pyrene			5.00	4.02		mg/Kg		80	70 - 124	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*102*		*10 - 134*
2-Fluorobiphenyl (Surr)	*91*		*14 - 142*
2-Fluorophenol (Surr)	*96*		*10 - 123*
Nitrobenzene-d5 (Surr)	*66*		*10 - 129*
Phenol-d6 (Surr)	*90*		*10 - 120*
p-Terphenyl-d14 (Surr)	*88*		*31 - 139*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 590-39165/1-A
Matrix: Solid
Analysis Batch: 39163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39165

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.080	0.035	ug/Kg		11/21/22 14:47	11/21/22 21:45	1
1,2-Dibromo-3-Chloropropane	ND		0.080	0.030	ug/Kg		11/21/22 14:47	11/21/22 21:45	1
1,2,3-Trichloropropane	ND		0.080	0.020	ug/Kg		11/21/22 14:47	11/21/22 21:45	1

Lab Sample ID: LCS 590-39165/2-A
Matrix: Solid
Analysis Batch: 39163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39165

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)			1.00	1.05		ug/Kg		105	60 - 140
1,2-Dibromo-3-Chloropropane			1.00	1.05		ug/Kg		105	60 - 140
1,2,3-Trichloropropane			1.00	1.02		ug/Kg		102	60 - 140

Lab Sample ID: 590-19244-1 MS
Matrix: Solid
Analysis Batch: 39163

Client Sample ID: GAC-Drum-1-11142022
Prep Type: Total/NA
Prep Batch: 39165

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND	F1 F2	1.01	0.0431	J F1	ug/Kg	☼	4	60 - 140
1,2-Dibromo-3-Chloropropane	ND	F1	1.01	0.0343	J F1	ug/Kg	☼	3	60 - 140
1,2,3-Trichloropropane	ND	F1	1.01	1.79	F1	ug/Kg	☼	178	60 - 140

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 590-19244-1 MSD
Matrix: Solid
Analysis Batch: 39163

Client Sample ID: GAC-Drum-1-11142022
Prep Type: Total/NA
Prep Batch: 39165

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND	F1 F2	0.985	0.0537	J F1 F2	ug/Kg	☼	5	60 - 140	22	20
1,2-Dibromo-3-Chloropropane	ND	F1	0.985	ND	F1	ug/Kg	☼	0	60 - 140	NC	20
1,2,3-Trichloropropane	ND	F1	0.985	2.01	F1	ug/Kg	☼	204	60 - 140	11	20

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 590-39265/1-A
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2.00	1.71		mg/L		86	80 - 120
Barium	2.00	1.63		mg/L		82	80 - 120
Cadmium	1.00	0.872		mg/L		87	80 - 120
Chromium	1.00	0.864		mg/L		86	80 - 120
Lead	1.00	0.904		mg/L		90	80 - 120
Selenium	2.00	1.74		mg/L		87	80 - 120

Lab Sample ID: LCS 590-39265/1-A
Matrix: Solid
Analysis Batch: 39285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.100	0.0846		mg/L		85	80 - 120

Lab Sample ID: LB 590-39242/1-B
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 39265

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.025	0.010	mg/L		11/30/22 14:45	11/30/22 17:17	1
Barium	0.00390	J	0.025	0.0014	mg/L		11/30/22 14:45	11/30/22 17:17	1
Cadmium	ND		0.025	0.0012	mg/L		11/30/22 14:45	11/30/22 17:17	1
Chromium	ND		0.025	0.0017	mg/L		11/30/22 14:45	11/30/22 17:17	1
Lead	ND		0.060	0.0051	mg/L		11/30/22 14:45	11/30/22 17:17	1
Selenium	ND		0.10	0.049	mg/L		11/30/22 14:45	11/30/22 17:17	1

Lab Sample ID: LB 590-39242/1-B
Matrix: Solid
Analysis Batch: 39285

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 39265

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.025	0.0025	mg/L		11/30/22 14:45	12/01/22 12:23	1

Lab Sample ID: 590-19244-1 MS
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: GAC-Drum-1-11142022
Prep Type: TCLP
Prep Batch: 39265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.013	J	2.00	1.79		mg/L		89	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 590-19244-1 MS
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: GAC-Drum-1-11142022
Prep Type: TCLP
Prep Batch: 39265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.27	B	2.00	1.94		mg/L		83	75 - 125
Cadmium	ND		1.00	0.867		mg/L		87	75 - 125
Chromium	ND		1.00	0.849		mg/L		85	75 - 125
Lead	ND		1.00	0.844		mg/L		84	75 - 125
Selenium	ND		2.00	1.84		mg/L		92	80 - 120

Lab Sample ID: 590-19244-1 MS
Matrix: Solid
Analysis Batch: 39285

Client Sample ID: GAC-Drum-1-11142022
Prep Type: TCLP
Prep Batch: 39265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.100	0.0819		mg/L		82	75 - 125

Lab Sample ID: 590-19244-1 MSD
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: GAC-Drum-1-11142022
Prep Type: TCLP
Prep Batch: 39265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.013	J	2.00	1.82		mg/L		90	75 - 125	2	20
Barium	0.27	B	2.00	1.95		mg/L		84	75 - 125	0	20
Cadmium	ND		1.00	0.877		mg/L		88	75 - 125	1	20
Chromium	ND		1.00	0.862		mg/L		86	75 - 125	2	20
Lead	ND		1.00	0.855		mg/L		86	75 - 125	1	20
Selenium	ND		2.00	1.88		mg/L		94	80 - 120	2	20

Lab Sample ID: 590-19244-1 MSD
Matrix: Solid
Analysis Batch: 39285

Client Sample ID: GAC-Drum-1-11142022
Prep Type: TCLP
Prep Batch: 39265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		0.100	0.0824		mg/L		82	75 - 125	1	20

Lab Sample ID: 590-19244-1 DU
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: GAC-Drum-1-11142022
Prep Type: TCLP
Prep Batch: 39265

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.013	J	0.0153	J	mg/L		13	20
Barium	0.27	B	0.281		mg/L		4	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20

Lab Sample ID: 590-19244-1 DU
Matrix: Solid
Analysis Batch: 39285

Client Sample ID: GAC-Drum-1-11142022
Prep Type: TCLP
Prep Batch: 39265

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	ND		ND		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 590-39266/8-A
Matrix: Solid
Analysis Batch: 39274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39266

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Hg			2.00	1.94		ug/L		97	80 - 120		

Lab Sample ID: LB 590-39242/1-C
Matrix: Solid
Analysis Batch: 39274

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 39266

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20	0.090	ug/L		11/30/22 14:47	11/30/22 18:30	1

Lab Sample ID: 590-19244-1 MS
Matrix: Solid
Analysis Batch: 39274

Client Sample ID: GAC-Drum-1-11142022
Prep Type: TCLP
Prep Batch: 39266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Hg	ND		2.00	1.97		ug/L		99	80 - 120		

Lab Sample ID: 590-19244-1 MSD
Matrix: Solid
Analysis Batch: 39274

Client Sample ID: GAC-Drum-1-11142022
Prep Type: TCLP
Prep Batch: 39266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hg	ND		2.00	1.69		ug/L		85	80 - 120	15	20

Lab Sample ID: 590-19244-1 DU
Matrix: Solid
Analysis Batch: 39274

Client Sample ID: GAC-Drum-1-11142022
Prep Type: TCLP
Prep Batch: 39266

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Hg	ND			ND		ug/L				NC	20

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19244-1

Client Sample ID: GAC-Drum-1-11142022
Date Collected: 11/14/22 12:10
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.92 g	2000.15 mL	39242	11/29/22 18:58	AMB	EET SPK
TCLP	Prep	3010A			50 mL	50 mL	39265	11/30/22 14:45	AMB	EET SPK
TCLP	Analysis	6010D		1			39269	11/30/22 17:21	AMB	EET SPK
TCLP	Leach	1311			100.92 g	2000.15 mL	39242	11/29/22 18:58	AMB	EET SPK
TCLP	Prep	3010A			50 mL	50 mL	39265	11/30/22 14:45	AMB	EET SPK
TCLP	Analysis	6010D		1			39285	12/01/22 12:27	AMB	EET SPK
TCLP	Leach	1311			100.92 g	2000.15 mL	39242	11/29/22 18:58	AMB	EET SPK
TCLP	Prep	7470A			50 mL	50 mL	39266	11/30/22 14:47	AMB	EET SPK
TCLP	Analysis	7470A		1			39274	11/30/22 18:32	AMB	EET SPK
Total/NA	Analysis	Moisture		1			39146	11/18/22 14:52	M1V	EET SPK

Client Sample ID: GAC-Drum-1-11142022
Date Collected: 11/14/22 12:10
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-1
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.737 g	10 mL	39168	11/21/22 16:12	JSP	EET SPK
Total/NA	Analysis	8260D		100	0.86 mL	43 mL	39203	11/23/22 13:25	JSP	EET SPK
Total/NA	Prep	3546			1.03 g	2 mL	282232	11/17/22 06:45	VB5S	EET CAL 4
Total/NA	Analysis	8270C		1	1 mL	1 mL	282755	11/18/22 20:58	ULLI	EET CAL 4
Total/NA	Prep	8011			10.02 g	2 mL	39165	11/21/22 14:47	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	39163	11/21/22 22:17	NMI	EET SPK

Client Sample ID: GAC-Drum-2-11142022
Date Collected: 11/14/22 12:20
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.81 g	2000.23 mL	39242	11/29/22 18:58	AMB	EET SPK
TCLP	Prep	3010A			50 mL	50 mL	39265	11/30/22 14:45	AMB	EET SPK
TCLP	Analysis	6010D		1			39269	11/30/22 17:46	AMB	EET SPK
TCLP	Leach	1311			100.81 g	2000.23 mL	39242	11/29/22 18:58	AMB	EET SPK
TCLP	Prep	3010A			50 mL	50 mL	39265	11/30/22 14:45	AMB	EET SPK
TCLP	Analysis	6010D		1			39285	12/01/22 17:14	AMB	EET SPK
TCLP	Leach	1311			100.81 g	2000.23 mL	39242	11/29/22 18:58	AMB	EET SPK
TCLP	Prep	7470A			50 mL	50 mL	39266	11/30/22 14:47	AMB	EET SPK
TCLP	Analysis	7470A		1			39274	11/30/22 18:42	AMB	EET SPK
Total/NA	Analysis	Moisture		1			39146	11/18/22 14:52	M1V	EET SPK

Client Sample ID: GAC-Drum-2-11142022
Date Collected: 11/14/22 12:20
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-2
Matrix: Solid
Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.475 g	10 mL	39168	11/21/22 16:12	JSP	EET SPK
Total/NA	Analysis	8260D		100	0.86 mL	43 mL	39203	11/23/22 14:52	JSP	EET SPK

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19244-1

Client Sample ID: GAC-Drum-2-11142022

Date Collected: 11/14/22 12:20
Date Received: 11/14/22 16:16

Lab Sample ID: 590-19244-2

Matrix: Solid
Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			1.08 g	2 mL	282232	11/17/22 06:45	VB5S	EET CAL 4
Total/NA	Analysis	8270C		1	1 mL	1 mL	282755	11/18/22 21:16	ULLI	EET CAL 4
Total/NA	Prep	8011			10.10 g	2 mL	39165	11/21/22 14:47	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	39163	11/21/22 23:05	NMI	EET SPK

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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

Accreditation/Certification Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19244-1

Laboratory: Eurofins Spokane

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Solid	1,2,3-Trichloropropane
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	07-31-23
California	SCAQMD LAP	17LA0919	12-01-22
California	State	3082	07-31-23
Nevada	State	CA00111	08-01-23
Oregon	NELAP	4175	02-02-23
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-12-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19244-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET SPK
6010D	Metals (ICP)	SW846	EET SPK
7470A	Mercury (CVAA)	SW846	EET SPK
Moisture	Percent Moisture	EPA	EET SPK
1311	TCLP Extraction	SW846	EET SPK
3010A	Preparation, Total Metals	SW846	EET SPK
3546	Microwave Extraction	SW846	EET CAL 4
5035	Closed System Purge and Trap	SW846	EET SPK
7470A	Preparation, Mercury	SW846	EET SPK
8011	Microextraction	SW846	EET SPK

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jered Newcomb / Daniel Brandr	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No:
Client Contact: Jered Newcomb	Phone: 509-899-4371	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: HDR Inc	PWSID:			Job #:
Address: 835 N Post St. Ste. 101	Due Date Requested:			
City: Spokane	TAT Requested (days): Standard			
State, Zip: WA, 99202	Compliance Project: Δ Yes Δ No			
Phone: 509-899-4371	PO #: Purchase Order Requested			
Email: jered.newcomb@hdrinc.com	WO #:			
Project Name: Simplot Warden	Project #: 10331653			
Site: Warden WA	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA Method 8011 (fumigants including EDB)	EPA Method 8260B VOCs	EPA Method 8270 Semi-VOCs	EPA Method 6010 TCLP RCRA 8	Percent Moisture/Total Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
GAC-Drum-1 1114 2022	11/14/2022	1210	G	S	N		X	X	X	X	X		
GAC-Drum-2- 1114 2022	11/14/2022	1220	G	S	N		X	X	X	X	X		

590-19244 Chain of Custody

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

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

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

Special Instructions/QC Requirements.

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/14/2022 15:20	HDR		11/14/22 15:20	HDR
2		11/14/22 15:55	HDR		11/14/22 15.55	EETORO
3		Date/Time:	Company		Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.0 8.1 IR005

12/2/2022

Eurofins Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone 509-924-9200 Fax 509-924-9290

Chain of Custody Record

eurofins

Loc: 590
19244

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-7335 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State - Washington		Job #: 590-19244-1
Address: 2841 Dow Avenue, Suite 100, ,	Due Date Requested: 11/29/2022			
City: Tustin	TAT Requested (days):			
State Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Simplot Warden	Project #: 59002373			
Site:	SSOW#:			

Analysis Requested

Preservation Code:
A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H - Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA
Other:

590-19244 Chain of Custody

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C/3546 Routine SVOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
GAC-Drum-1-11142022 (590-19244-1)	11/14/22	12 10 Pacific		Solid			X	1	
GAC-Drum-2-11142022 (590-19244-2)	11/14/22	12.20 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Northwest, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		11/15/22 1400	EC TSP		11/16/22 1000	EC
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No :	Cooler Temperature(s) °C and Other Remarks
		2.6/2.4 SC12

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19244-1

Login Number: 19244
List Number: 1
Creator: Fettig, Riley

List Source: Eurofins Spokane

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

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19244-1

Login Number: 19244
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 11/16/22 11:53 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	2071552
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	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jered Newcomb
HDR Inc
1401 E. Trent Ave
Suite 101
Spokane, Washington 99202

Generated 11/30/2022 10:27:56 AM

JOB DESCRIPTION

Simplot Warden

JOB NUMBER

590-19192-1

Eurofins Spokane
11922 East 1st Ave
Spokane WA 99206

See page two for job notes and contact information.

Job Notes

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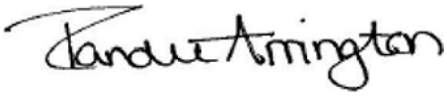
The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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11/30/2022 10:27:56 AM

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

Table of Contents

Case Narrative

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19192-1

Job ID: 590-19192-1

Laboratory: Eurofins Spokane

Narrative

Receipt
The samples were received on 11/7/2022 4:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.2º C.

GC/MS VOA
Method 8260D: The method blank for analytical batch 590-39122 contained Toluene and Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) associated with batch 410-317400 recovered above the upper control limit for Bis(2-ethylhexyl) phthalate and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 410-317358 recovered above the upper control limit for 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The laboratory control sample (LCS) for preparation batch 410-317127 and analytical batch 410-317400 recovered outside control limits for several analytes. The results are reported and qualified. No remaining volume for re-analysis.

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

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.

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

Sample Summary

Client: HDR Inc
Job ID: 590-19192-1
Project/Site: Simplot Warden

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-19192-1	TOTE-Water-11072022	Water	11/07/22 14:10	11/07/22 16:25
590-19192-2	IDW-Drum-1-11072022	Water	11/07/22 13:10	11/07/22 16:25
590-19192-3	IDW-Drum-2-11072022	Water	11/07/22 13:20	11/07/22 16:25
590-19192-4	IDW-Drum-3-11072022	Water	11/07/22 13:35	11/07/22 16:25
590-19192-5	IDW-Drum-4-11072022	Water	11/07/22 13:45	11/07/22 16:25
590-19192-6	IDW-Drum-5-11072022	Water	11/07/22 13:50	11/07/22 16:25
590-19192-7	IDW-Drum-6-11072022	Water	11/07/22 13:55	11/07/22 16:25
590-19192-8	Trip Blank	Water	11/07/22 00:00	11/07/22 16:25

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.

GC Semi VOA

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19192-1

Client Sample ID: TOTE-Water-11072022
Date Collected: 11/07/22 14:10
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			11/17/22 14:08	1
Chloromethane	**0.82**	**J**	3.0	0.50	ug/L			11/17/22 14:08	1
Vinyl chloride	ND		0.40	0.13	ug/L			11/17/22 14:08	1
Bromomethane	ND		5.0	0.76	ug/L			11/17/22 14:08	1
Chloroethane	ND		2.0	0.40	ug/L			11/17/22 14:08	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/17/22 14:08	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 14:08	1
Methylene Chloride	ND		5.0	2.2	ug/L			11/17/22 14:08	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 14:08	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			11/17/22 14:08	1
2,2-Dichloropropane	ND		2.0	0.66	ug/L			11/17/22 14:08	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			11/17/22 14:08	1
Bromochloromethane	ND		2.0	0.44	ug/L			11/17/22 14:08	1
Chloroform	ND		1.0	0.24	ug/L			11/17/22 14:08	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			11/17/22 14:08	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			11/17/22 14:08	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			11/17/22 14:08	1
Benzene	ND		0.40	0.093	ug/L			11/17/22 14:08	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			11/17/22 14:08	1
Trichloroethene	ND		1.0	0.20	ug/L			11/17/22 14:08	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			11/17/22 14:08	1
Dibromomethane	ND		2.0	0.50	ug/L			11/17/22 14:08	1
Bromodichloromethane	ND		1.0	0.29	ug/L			11/17/22 14:08	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/17/22 14:08	1
Toluene	ND		1.0	0.31	ug/L			11/17/22 14:08	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			11/17/22 14:08	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			11/17/22 14:08	1
Tetrachloroethene	ND		1.0	0.22	ug/L			11/17/22 14:08	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			11/17/22 14:08	1
Dibromochloromethane	ND		2.0	0.33	ug/L			11/17/22 14:08	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			11/17/22 14:08	1
Chlorobenzene	ND		1.0	0.32	ug/L			11/17/22 14:08	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/17/22 14:08	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			11/17/22 14:08	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			11/17/22 14:08	1
m,p-Xylene	ND		2.0	0.28	ug/L			11/17/22 14:08	1
o-Xylene	ND		1.0	0.16	ug/L			11/17/22 14:08	1
Styrene	ND		1.0	0.24	ug/L			11/17/22 14:08	1
Bromoform	ND		5.0	0.66	ug/L			11/17/22 14:08	1
Isopropylbenzene	ND		1.0	0.24	ug/L			11/17/22 14:08	1
Bromobenzene	ND		1.0	0.28	ug/L			11/17/22 14:08	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/17/22 14:08	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/17/22 14:08	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			11/17/22 14:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			11/17/22 14:08	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			11/17/22 14:08	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			11/17/22 14:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			11/17/22 14:08	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			11/17/22 14:08	1

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19192-1

Client Sample ID: TOTE-Water-11072022
Date Collected: 11/07/22 14:10
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			11/17/22 14:08	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			11/17/22 14:08	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			11/17/22 14:08	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/17/22 14:08	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			11/17/22 14:08	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/17/22 14:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.16	ug/L			11/17/22 14:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			11/17/22 14:08	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			11/17/22 14:08	1
Naphthalene	**0.63**	**J B**	2.0	0.63	ug/L			11/17/22 14:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/17/22 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/17/22 14:08*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/17/22 14:08*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/17/22 14:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*11/17/22 14:08*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
Acenaphthylene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
Aniline	ND		4.7	0.93	ug/L		11/14/22 07:55	11/15/22 00:04	1
Anthracene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
Benzidine	ND		56	19	ug/L		11/14/22 07:55	11/15/22 00:04	1
Benzo[a]anthracene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
Benzo[b]fluoranthene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
Benzo[k]fluoranthene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
Benzo[g,h,i]perylene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
Benzo[a]pyrene	ND		0.47	0.10	ug/L		11/14/22 07:55	11/15/22 00:04	1
Benzoic acid	ND		23	11	ug/L		11/14/22 07:55	11/15/22 00:04	1
Benzyl alcohol	ND		9.3	3.7	ug/L		11/14/22 07:55	11/15/22 00:04	1
Bis(2-chloroethoxy)methane	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Bis(2-chloroethyl)ether	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Bis(2-ethylhexyl) phthalate	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:04	1
bis (2-Chloroisopropyl) ether	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
4-Bromophenyl phenyl ether	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Butyl benzyl phthalate	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:04	1
4-Chloroaniline	ND		9.3	3.7	ug/L		11/14/22 07:55	11/15/22 00:04	1
4-Chloro-3-methylphenol	ND		4.7	0.93	ug/L		11/14/22 07:55	11/15/22 00:04	1
2-Chloronaphthalene	ND		0.93	0.37	ug/L		11/14/22 07:55	11/15/22 00:04	1
2-Chlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
4-Chlorophenyl phenyl ether	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Chrysene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
Dibenz(a,h)anthracene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
Dibenzofuran	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Di-n-butyl phthalate	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:04	1
1,2-Dichlorobenzene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
1,3-Dichlorobenzene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
1,4-Dichlorobenzene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1

Client Sample ID: TOTE-Water-11072022
Date Collected: 11/07/22 14:10
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND		9.3	3.7	ug/L		11/14/22 07:55	11/15/22 00:04	1
2,4-Dichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
2,6-Dichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Diethyl phthalate	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:04	1
2,4-Dimethylphenol	ND		9.3	2.8	ug/L		11/14/22 07:55	11/15/22 00:04	1
Dimethyl phthalate	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:04	1
4,6-Dinitro-2-methylphenol	ND		20	7.5	ug/L		11/14/22 07:55	11/15/22 00:04	1
2,4-Dinitrophenol	ND		28	13	ug/L		11/14/22 07:55	11/15/22 00:04	1
2,4-Dinitrotoluene	ND		4.7	0.93	ug/L		11/14/22 07:55	11/15/22 00:04	1
2,6-Dinitrotoluene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Di-n-octyl phthalate	ND		10	4.7	ug/L		11/14/22 07:55	11/15/22 00:04	1
Fluoranthene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
Fluorene	ND		0.47	0.11	ug/L		11/14/22 07:55	11/15/22 00:04	1
Hexachlorobenzene	ND		0.47	0.10	ug/L		11/14/22 07:55	11/15/22 00:04	1
Hexachloro-1,3-butadiene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Hexachlorocyclopentadiene	ND		10	4.7	ug/L		11/14/22 07:55	11/15/22 00:04	1
Hexachloroethane	ND		4.7	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Indeno[1,2,3-cd]pyrene	ND		0.47	0.10	ug/L		11/14/22 07:55	11/15/22 00:04	1
Isophorone	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
2-Methylnaphthalene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
1-Methylnaphthalene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
2-Methylphenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Naphthalene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
2-Nitroaniline	ND		4.7	0.93	ug/L		11/14/22 07:55	11/15/22 00:04	1
3-Nitroaniline	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:04	1
4-Nitroaniline	ND		2.8	0.84	ug/L		11/14/22 07:55	11/15/22 00:04	1
Nitrobenzene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
2-Nitrophenol	ND		4.7	0.93	ug/L		11/14/22 07:55	11/15/22 00:04	1
4-Nitrophenol	ND		28	9.3	ug/L		11/14/22 07:55	11/15/22 00:04	1
N-Nitrosodimethylamine	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:04	1
N-Nitrosodiphenylamine	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
N-Nitrosodi-n-propylamine	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Pentachlorophenol	ND		4.7	0.93	ug/L		11/14/22 07:55	11/15/22 00:04	1
Phenanthrene	ND		0.47	0.10	ug/L		11/14/22 07:55	11/15/22 00:04	1
Phenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
Pyrene	ND		0.47	0.093	ug/L		11/14/22 07:55	11/15/22 00:04	1
Pyridine	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:04	1
1,2,4-Trichlorobenzene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
2,4,5-Trichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1
2,4,6-Trichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 150*	*11/14/22 07:55*	*11/15/22 00:04*	*1*
2-Fluorobiphenyl (Surr)	*69*		*44 - 120*	*11/14/22 07:55*	*11/15/22 00:04*	*1*
2-Fluorophenol (Surr)	*37*		*10 - 120*	*11/14/22 07:55*	*11/15/22 00:04*	*1*
Nitrobenzene-d5 (Surr)	*66*		*25 - 125*	*11/14/22 07:55*	*11/15/22 00:04*	*1*
p-Terphenyl-d14 (Surr)	*44*		*37 - 120*	*11/14/22 07:55*	*11/15/22 00:04*	*1*
Phenol-d5 (Surr)	*30*		*10 - 120*	*11/14/22 07:55*	*11/15/22 00:04*	*1*

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19192-1

Client Sample ID: TOTE-Water-11072022

Lab Sample ID: 590-19192-1

Date Collected: 11/07/22 14:10
Matrix: Water
Date Received: 11/07/22 16:25

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		11/08/22 13:31	11/08/22 15:51	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0032	ug/L		11/08/22 13:31	11/08/22 15:51	1
1,2,3-Trichloropropane	**0.19**		0.010	0.0050	ug/L		11/08/22 13:31	11/08/22 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1	0.1	SU			11/18/22 12:10	1

Client Sample ID: IDW-Drum-1-11072022

Lab Sample ID: 590-19192-2

Date Collected: 11/07/22 13:10
Matrix: Water
Date Received: 11/07/22 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			11/17/22 14:30	1
Chloromethane	ND		3.0	0.50	ug/L			11/17/22 14:30	1
Vinyl chloride	ND		0.40	0.13	ug/L			11/17/22 14:30	1
Bromomethane	ND		5.0	0.76	ug/L			11/17/22 14:30	1
Chloroethane	ND		2.0	0.40	ug/L			11/17/22 14:30	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/17/22 14:30	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 14:30	1
Methylene Chloride	ND		5.0	2.2	ug/L			11/17/22 14:30	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 14:30	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			11/17/22 14:30	1
2,2-Dichloropropane	ND		2.0	0.66	ug/L			11/17/22 14:30	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			11/17/22 14:30	1
Bromochloromethane	ND		2.0	0.44	ug/L			11/17/22 14:30	1
Chloroform	ND		1.0	0.24	ug/L			11/17/22 14:30	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			11/17/22 14:30	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			11/17/22 14:30	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			11/17/22 14:30	1
Benzene	ND		0.40	0.093	ug/L			11/17/22 14:30	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			11/17/22 14:30	1
Trichloroethene	ND		1.0	0.20	ug/L			11/17/22 14:30	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			11/17/22 14:30	1
Dibromomethane	ND		2.0	0.50	ug/L			11/17/22 14:30	1
Bromodichloromethane	ND		1.0	0.29	ug/L			11/17/22 14:30	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/17/22 14:30	1
Toluene	ND		1.0	0.31	ug/L			11/17/22 14:30	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			11/17/22 14:30	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			11/17/22 14:30	1
Tetrachloroethene	ND		1.0	0.22	ug/L			11/17/22 14:30	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			11/17/22 14:30	1
Dibromochloromethane	ND		2.0	0.33	ug/L			11/17/22 14:30	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			11/17/22 14:30	1
Chlorobenzene	ND		1.0	0.32	ug/L			11/17/22 14:30	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/17/22 14:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			11/17/22 14:30	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			11/17/22 14:30	1
m,p-Xylene	ND		2.0	0.28	ug/L			11/17/22 14:30	1

Client Sample ID: IDW-Drum-1-11072022
Date Collected: 11/07/22 13:10
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0	0.16	ug/L			11/17/22 14:30	1
Styrene	ND		1.0	0.24	ug/L			11/17/22 14:30	1
Bromoform	ND		5.0	0.66	ug/L			11/17/22 14:30	1
Isopropylbenzene	ND		1.0	0.24	ug/L			11/17/22 14:30	1
Bromobenzene	ND		1.0	0.28	ug/L			11/17/22 14:30	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/17/22 14:30	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/17/22 14:30	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			11/17/22 14:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			11/17/22 14:30	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			11/17/22 14:30	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			11/17/22 14:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			11/17/22 14:30	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			11/17/22 14:30	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			11/17/22 14:30	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			11/17/22 14:30	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			11/17/22 14:30	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/17/22 14:30	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			11/17/22 14:30	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/17/22 14:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.16	ug/L			11/17/22 14:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			11/17/22 14:30	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			11/17/22 14:30	1
Naphthalene	ND		2.0	0.63	ug/L			11/17/22 14:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/17/22 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/17/22 14:30*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/17/22 14:30*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/17/22 14:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*11/17/22 14:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
Acenaphthylene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
Aniline	ND		4.7	0.94	ug/L		11/14/22 07:55	11/15/22 00:25	1
Anthracene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
Benzidine	ND		57	19	ug/L		11/14/22 07:55	11/15/22 00:25	1
Benzo[a]anthracene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
Benzo[b]fluoranthene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
Benzo[k]fluoranthene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
Benzo[g,h,i]perylene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
Benzo[a]pyrene	ND		0.47	0.10	ug/L		11/14/22 07:55	11/15/22 00:25	1
Benzoic acid	ND		24	11	ug/L		11/14/22 07:55	11/15/22 00:25	1
Benzyl alcohol	ND		9.4	3.8	ug/L		11/14/22 07:55	11/15/22 00:25	1
Bis(2-chloroethoxy)methane	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
Bis(2-chloroethyl)ether	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
Bis(2-ethylhexyl) phthalate	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:25	1
bis (2-Chloroisopropyl) ether	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
4-Bromophenyl phenyl ether	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19192-1

Client Sample ID: IDW-Drum-1-11072022
Date Collected: 11/07/22 13:10
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-2
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:25	1
4-Chloroaniline	ND		9.4	3.8	ug/L		11/14/22 07:55	11/15/22 00:25	1
4-Chloro-3-methylphenol	ND		4.7	0.94	ug/L		11/14/22 07:55	11/15/22 00:25	1
2-Chloronaphthalene	ND		0.94	0.38	ug/L		11/14/22 07:55	11/15/22 00:25	1
2-Chlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
4-Chlorophenyl phenyl ether	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
Chrysene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
Dibenz(a,h)anthracene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
Dibenzofuran	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
Di-n-butyl phthalate	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:25	1
1,2-Dichlorobenzene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
1,3-Dichlorobenzene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
1,4-Dichlorobenzene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
3,3'-Dichlorobenzidine	ND		9.4	3.8	ug/L		11/14/22 07:55	11/15/22 00:25	1
2,4-Dichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
2,6-Dichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
Diethyl phthalate	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:25	1
2,4-Dimethylphenol	ND		9.4	2.8	ug/L		11/14/22 07:55	11/15/22 00:25	1
Dimethyl phthalate	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:25	1
4,6-Dinitro-2-methylphenol	ND		20	7.5	ug/L		11/14/22 07:55	11/15/22 00:25	1
2,4-Dinitrophenol	ND		28	13	ug/L		11/14/22 07:55	11/15/22 00:25	1
2,4-Dinitrotoluene	ND		4.7	0.94	ug/L		11/14/22 07:55	11/15/22 00:25	1
2,6-Dinitrotoluene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
Di-n-octyl phthalate	ND		10	4.7	ug/L		11/14/22 07:55	11/15/22 00:25	1
Fluoranthene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
Fluorene	ND		0.47	0.11	ug/L		11/14/22 07:55	11/15/22 00:25	1
Hexachlorobenzene	ND		0.47	0.10	ug/L		11/14/22 07:55	11/15/22 00:25	1
Hexachloro-1,3-butadiene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
Hexachlorocyclopentadiene	ND		10	4.7	ug/L		11/14/22 07:55	11/15/22 00:25	1
Hexachloroethane	ND		4.7	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
Indeno[1,2,3-cd]pyrene	ND		0.47	0.10	ug/L		11/14/22 07:55	11/15/22 00:25	1
Isophorone	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
2-Methylnaphthalene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
1-Methylnaphthalene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
2-Methylphenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
Naphthalene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1
2-Nitroaniline	ND		4.7	0.94	ug/L		11/14/22 07:55	11/15/22 00:25	1
3-Nitroaniline	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:25	1
4-Nitroaniline	ND		2.8	0.85	ug/L		11/14/22 07:55	11/15/22 00:25	1
Nitrobenzene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
2-Nitrophenol	ND		4.7	0.94	ug/L		11/14/22 07:55	11/15/22 00:25	1
4-Nitrophenol	ND		28	9.4	ug/L		11/14/22 07:55	11/15/22 00:25	1
N-Nitrosodimethylamine	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:25	1
N-Nitrosodiphenylamine	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
N-Nitrosodi-n-propylamine	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
Pentachlorophenol	ND		4.7	0.94	ug/L		11/14/22 07:55	11/15/22 00:25	1
Phenanthrene	ND		0.47	0.10	ug/L		11/14/22 07:55	11/15/22 00:25	1
Phenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
Pyrene	ND		0.47	0.094	ug/L		11/14/22 07:55	11/15/22 00:25	1

Client Sample ID: IDW-Drum-1-11072022

Lab Sample ID: 590-19192-2

Date Collected: 11/07/22 13:10

Matrix: Water

Date Received: 11/07/22 16:25

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		4.7	1.9	ug/L		11/14/22 07:55	11/15/22 00:25	1
1,2,4-Trichlorobenzene	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
2,4,5-Trichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1
2,4,6-Trichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:55	11/15/22 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*10 - 150*	*11/14/22 07:55*	*11/15/22 00:25*	*1*
2-Fluorobiphenyl (Surr)	*75*		*44 - 120*	*11/14/22 07:55*	*11/15/22 00:25*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 120*	*11/14/22 07:55*	*11/15/22 00:25*	*1*
Nitrobenzene-d5 (Surr)	*75*		*25 - 125*	*11/14/22 07:55*	*11/15/22 00:25*	*1*
p-Terphenyl-d14 (Surr)	*79*		*37 - 120*	*11/14/22 07:55*	*11/15/22 00:25*	*1*
Phenol-d5 (Surr)	*38*		*10 - 120*	*11/14/22 07:55*	*11/15/22 00:25*	*1*

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		11/08/22 13:31	11/08/22 16:07	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0032	ug/L		11/08/22 13:31	11/08/22 16:07	1
1,2,3-Trichloropropane	ND		0.010	0.0050	ug/L		11/08/22 13:31	11/08/22 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.6**	**HF**	0.1	0.1	SU			11/18/22 12:10	1

Client Sample ID: IDW-Drum-2-11072022

Lab Sample ID: 590-19192-3

Date Collected: 11/07/22 13:20

Matrix: Water

Date Received: 11/07/22 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			11/17/22 14:52	1
Chloromethane	ND		3.0	0.50	ug/L			11/17/22 14:52	1
Vinyl chloride	ND		0.40	0.13	ug/L			11/17/22 14:52	1
Bromomethane	ND		5.0	0.76	ug/L			11/17/22 14:52	1
Chloroethane	ND		2.0	0.40	ug/L			11/17/22 14:52	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/17/22 14:52	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 14:52	1
Methylene Chloride	ND		5.0	2.2	ug/L			11/17/22 14:52	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 14:52	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			11/17/22 14:52	1
2,2-Dichloropropane	ND		2.0	0.66	ug/L			11/17/22 14:52	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			11/17/22 14:52	1
Bromochloromethane	ND		2.0	0.44	ug/L			11/17/22 14:52	1
Chloroform	ND		1.0	0.24	ug/L			11/17/22 14:52	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			11/17/22 14:52	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			11/17/22 14:52	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			11/17/22 14:52	1
Benzene	ND		0.40	0.093	ug/L			11/17/22 14:52	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			11/17/22 14:52	1
Trichloroethene	ND		1.0	0.20	ug/L			11/17/22 14:52	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			11/17/22 14:52	1
Dibromomethane	ND		2.0	0.50	ug/L			11/17/22 14:52	1

Client Sample ID: IDW-Drum-2-11072022
Date Collected: 11/07/22 13:20
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.29	ug/L			11/17/22 14:52	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/17/22 14:52	1
Toluene	ND		1.0	0.31	ug/L			11/17/22 14:52	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			11/17/22 14:52	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			11/17/22 14:52	1
Tetrachloroethene	ND		1.0	0.22	ug/L			11/17/22 14:52	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			11/17/22 14:52	1
Dibromochloromethane	ND		2.0	0.33	ug/L			11/17/22 14:52	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			11/17/22 14:52	1
Chlorobenzene	ND		1.0	0.32	ug/L			11/17/22 14:52	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/17/22 14:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			11/17/22 14:52	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			11/17/22 14:52	1
m,p-Xylene	ND		2.0	0.28	ug/L			11/17/22 14:52	1
o-Xylene	ND		1.0	0.16	ug/L			11/17/22 14:52	1
Styrene	ND		1.0	0.24	ug/L			11/17/22 14:52	1
Bromoform	ND		5.0	0.66	ug/L			11/17/22 14:52	1
Isopropylbenzene	ND		1.0	0.24	ug/L			11/17/22 14:52	1
Bromobenzene	ND		1.0	0.28	ug/L			11/17/22 14:52	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/17/22 14:52	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/17/22 14:52	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			11/17/22 14:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			11/17/22 14:52	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			11/17/22 14:52	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			11/17/22 14:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			11/17/22 14:52	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			11/17/22 14:52	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			11/17/22 14:52	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			11/17/22 14:52	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			11/17/22 14:52	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/17/22 14:52	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			11/17/22 14:52	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/17/22 14:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.16	ug/L			11/17/22 14:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			11/17/22 14:52	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			11/17/22 14:52	1
Naphthalene	ND		2.0	0.63	ug/L			11/17/22 14:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/17/22 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/17/22 14:52*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/17/22 14:52*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*11/17/22 14:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*11/17/22 14:52*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
Acenaphthylene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
Aniline	ND		5.1	1.0	ug/L		11/14/22 07:55	11/15/22 00:46	1

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19192-1

Client Sample ID: IDW-Drum-2-11072022
Date Collected: 11/07/22 13:20
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-3
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
Benzidine	ND		61	20	ug/L		11/14/22 07:55	11/15/22 00:46	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
Benzo[a]pyrene	ND		0.51	0.11	ug/L		11/14/22 07:55	11/15/22 00:46	1
Benzoic acid	ND		25	12	ug/L		11/14/22 07:55	11/15/22 00:46	1
Benzyl alcohol	ND		10	4.1	ug/L		11/14/22 07:55	11/15/22 00:46	1
Bis(2-chloroethoxy)methane	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
Bis(2-chloroethyl)ether	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
Bis(2-ethylhexyl) phthalate	ND		5.1	2.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
bis (2-Chloroisopropyl) ether	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
4-Bromophenyl phenyl ether	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
Butyl benzyl phthalate	ND		5.1	2.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
4-Chloroaniline	ND		10	4.1	ug/L		11/14/22 07:55	11/15/22 00:46	1
4-Chloro-3-methylphenol	ND		5.1	1.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
2-Chloronaphthalene	ND		1.0	0.41	ug/L		11/14/22 07:55	11/15/22 00:46	1
2-Chlorophenol	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
4-Chlorophenyl phenyl ether	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
Chrysene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
Dibenzofuran	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
Di-n-butyl phthalate	ND		5.1	2.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
1,2-Dichlorobenzene	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
1,3-Dichlorobenzene	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
1,4-Dichlorobenzene	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
3,3'-Dichlorobenzidine	ND		10	4.1	ug/L		11/14/22 07:55	11/15/22 00:46	1
2,4-Dichlorophenol	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
2,6-Dichlorophenol	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
Diethyl phthalate	ND		5.1	2.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
Dimethyl phthalate	ND		5.1	2.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
4,6-Dinitro-2-methylphenol	ND		21	8.1	ug/L		11/14/22 07:55	11/15/22 00:46	1
2,4-Dinitrophenol	ND		30	14	ug/L		11/14/22 07:55	11/15/22 00:46	1
2,4-Dinitrotoluene	ND		5.1	1.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
2,6-Dinitrotoluene	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
Di-n-octyl phthalate	ND		11	5.1	ug/L		11/14/22 07:55	11/15/22 00:46	1
Fluoranthene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
Fluorene	ND		0.51	0.12	ug/L		11/14/22 07:55	11/15/22 00:46	1
Hexachlorobenzene	ND		0.51	0.11	ug/L		11/14/22 07:55	11/15/22 00:46	1
Hexachloro-1,3-butadiene	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
Hexachlorocyclopentadiene	ND		11	5.1	ug/L		11/14/22 07:55	11/15/22 00:46	1
Hexachloroethane	ND		5.1	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		11/14/22 07:55	11/15/22 00:46	1
Isophorone	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
2-Methylnaphthalene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
1-Methylnaphthalene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
2-Methylphenol	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1

Client Sample ID: IDW-Drum-2-11072022

Lab Sample ID: 590-19192-3

Date Collected: 11/07/22 13:20

Matrix: Water

Date Received: 11/07/22 16:25

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
2-Nitroaniline	ND		5.1	1.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
3-Nitroaniline	ND		5.1	2.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
4-Nitroaniline	ND		3.0	0.91	ug/L		11/14/22 07:55	11/15/22 00:46	1
Nitrobenzene	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
2-Nitrophenol	ND		5.1	1.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
4-Nitrophenol	ND		30	10	ug/L		11/14/22 07:55	11/15/22 00:46	1
N-Nitrosodimethylamine	ND		5.1	2.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
N-Nitrosodiphenylamine	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
N-Nitrosodi-n-propylamine	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
Pentachlorophenol	ND		5.1	1.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
Phenanthrene	ND		0.51	0.11	ug/L		11/14/22 07:55	11/15/22 00:46	1
Phenol	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
Pyrene	ND		0.51	0.10	ug/L		11/14/22 07:55	11/15/22 00:46	1
Pyridine	ND		5.1	2.0	ug/L		11/14/22 07:55	11/15/22 00:46	1
1,2,4-Trichlorobenzene	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
2,4,5-Trichlorophenol	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1
2,4,6-Trichlorophenol	ND		2.0	0.51	ug/L		11/14/22 07:55	11/15/22 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*10 - 150*	*11/14/22 07:55*	*11/15/22 00:46*	*1*
2-Fluorobiphenyl (Surr)	*73*		*44 - 120*	*11/14/22 07:55*	*11/15/22 00:46*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 120*	*11/14/22 07:55*	*11/15/22 00:46*	*1*
Nitrobenzene-d5 (Surr)	*77*		*25 - 125*	*11/14/22 07:55*	*11/15/22 00:46*	*1*
p-Terphenyl-d14 (Surr)	*83*		*37 - 120*	*11/14/22 07:55*	*11/15/22 00:46*	*1*
Phenol-d5 (Surr)	*34*		*10 - 120*	*11/14/22 07:55*	*11/15/22 00:46*	*1*

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		11/08/22 13:31	11/08/22 16:23	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0032	ug/L		11/08/22 13:31	11/08/22 16:23	1
1,2,3-Trichloropropane	ND		0.010	0.0050	ug/L		11/08/22 13:31	11/08/22 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**8.0**	**HF**	0.1	0.1	SU			11/18/22 12:10	1

Client Sample ID: IDW-Drum-3-11072022

Lab Sample ID: 590-19192-4

Date Collected: 11/07/22 13:35

Matrix: Water

Date Received: 11/07/22 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			11/17/22 15:13	1
Chloromethane	ND		3.0	0.50	ug/L			11/17/22 15:13	1
Vinyl chloride	ND		0.40	0.13	ug/L			11/17/22 15:13	1
Bromomethane	ND		5.0	0.76	ug/L			11/17/22 15:13	1
Chloroethane	ND		2.0	0.40	ug/L			11/17/22 15:13	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/17/22 15:13	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 15:13	1
Methylene Chloride	ND		5.0	2.2	ug/L			11/17/22 15:13	1

Client Sample ID: IDW-Drum-3-11072022
Date Collected: 11/07/22 13:35
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 15:13	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			11/17/22 15:13	1
2,2-Dichloropropane	ND		2.0	0.66	ug/L			11/17/22 15:13	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			11/17/22 15:13	1
Bromochloromethane	ND		2.0	0.44	ug/L			11/17/22 15:13	1
Chloroform	ND		1.0	0.24	ug/L			11/17/22 15:13	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			11/17/22 15:13	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			11/17/22 15:13	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			11/17/22 15:13	1
Benzene	ND		0.40	0.093	ug/L			11/17/22 15:13	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			11/17/22 15:13	1
Trichloroethene	ND		1.0	0.20	ug/L			11/17/22 15:13	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			11/17/22 15:13	1
Dibromomethane	ND		2.0	0.50	ug/L			11/17/22 15:13	1
Bromodichloromethane	ND		1.0	0.29	ug/L			11/17/22 15:13	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/17/22 15:13	1
Toluene	ND		1.0	0.31	ug/L			11/17/22 15:13	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			11/17/22 15:13	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			11/17/22 15:13	1
Tetrachloroethene	ND		1.0	0.22	ug/L			11/17/22 15:13	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			11/17/22 15:13	1
Dibromochloromethane	ND		2.0	0.33	ug/L			11/17/22 15:13	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			11/17/22 15:13	1
Chlorobenzene	ND		1.0	0.32	ug/L			11/17/22 15:13	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/17/22 15:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			11/17/22 15:13	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			11/17/22 15:13	1
m,p-Xylene	ND		2.0	0.28	ug/L			11/17/22 15:13	1
o-Xylene	ND		1.0	0.16	ug/L			11/17/22 15:13	1
Styrene	ND		1.0	0.24	ug/L			11/17/22 15:13	1
Bromoform	ND		5.0	0.66	ug/L			11/17/22 15:13	1
Isopropylbenzene	ND		1.0	0.24	ug/L			11/17/22 15:13	1
Bromobenzene	ND		1.0	0.28	ug/L			11/17/22 15:13	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/17/22 15:13	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/17/22 15:13	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			11/17/22 15:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			11/17/22 15:13	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			11/17/22 15:13	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			11/17/22 15:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			11/17/22 15:13	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			11/17/22 15:13	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			11/17/22 15:13	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			11/17/22 15:13	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			11/17/22 15:13	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/17/22 15:13	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			11/17/22 15:13	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/17/22 15:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.16	ug/L			11/17/22 15:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			11/17/22 15:13	1

Client Sample ID: IDW-Drum-3-11072022
Date Collected: 11/07/22 13:35
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.0	0.21	ug/L			11/17/22 15:13	1
Naphthalene	ND		2.0	0.63	ug/L			11/17/22 15:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/17/22 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/17/22 15:13*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*11/17/22 15:13*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/17/22 15:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*11/17/22 15:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
Acenaphthylene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
Aniline	ND		4.8	0.96	ug/L		11/14/22 07:55	11/15/22 01:07	1
Anthracene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
Benzidine	ND		58	19	ug/L		11/14/22 07:55	11/15/22 01:07	1
Benzo[a]anthracene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
Benzo[b]fluoranthene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
Benzo[k]fluoranthene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
Benzo[g,h,i]perylene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
Benzo[a]pyrene	ND		0.48	0.11	ug/L		11/14/22 07:55	11/15/22 01:07	1
Benzoic acid	ND		24	12	ug/L		11/14/22 07:55	11/15/22 01:07	1
Benzyl alcohol	ND		9.6	3.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
Bis(2-chloroethoxy)methane	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Bis(2-chloroethyl)ether	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
bis (2-Chloroisopropyl) ether	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
4-Bromophenyl phenyl ether	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Butyl benzyl phthalate	ND		4.8	1.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
4-Chloroaniline	ND		9.6	3.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
4-Chloro-3-methylphenol	ND		4.8	0.96	ug/L		11/14/22 07:55	11/15/22 01:07	1
2-Chloronaphthalene	ND		0.96	0.39	ug/L		11/14/22 07:55	11/15/22 01:07	1
2-Chlorophenol	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
4-Chlorophenyl phenyl ether	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Chrysene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
Dibenz(a,h)anthracene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
Dibenzofuran	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Di-n-butyl phthalate	ND		4.8	1.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
1,2-Dichlorobenzene	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
1,3-Dichlorobenzene	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
1,4-Dichlorobenzene	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
3,3'-Dichlorobenzidine	ND		9.6	3.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
2,4-Dichlorophenol	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
2,6-Dichlorophenol	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Diethyl phthalate	ND		4.8	1.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
2,4-Dimethylphenol	ND		9.6	2.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
Dimethyl phthalate	ND		4.8	1.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
4,6-Dinitro-2-methylphenol	ND		20	7.7	ug/L		11/14/22 07:55	11/15/22 01:07	1
2,4-Dinitrophenol	ND		29	13	ug/L		11/14/22 07:55	11/15/22 01:07	1

Client Sample ID: IDW-Drum-3-11072022
Date Collected: 11/07/22 13:35
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-4
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		4.8	0.96	ug/L		11/14/22 07:55	11/15/22 01:07	1
2,6-Dinitrotoluene	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Di-n-octyl phthalate	ND		11	4.8	ug/L		11/14/22 07:55	11/15/22 01:07	1
Fluoranthene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
Fluorene	ND		0.48	0.12	ug/L		11/14/22 07:55	11/15/22 01:07	1
Hexachlorobenzene	ND		0.48	0.11	ug/L		11/14/22 07:55	11/15/22 01:07	1
Hexachloro-1,3-butadiene	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Hexachlorocyclopentadiene	ND		11	4.8	ug/L		11/14/22 07:55	11/15/22 01:07	1
Hexachloroethane	ND		4.8	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.11	ug/L		11/14/22 07:55	11/15/22 01:07	1
Isophorone	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
2-Methylnaphthalene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
1-Methylnaphthalene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
2-Methylphenol	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Naphthalene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
2-Nitroaniline	ND		4.8	0.96	ug/L		11/14/22 07:55	11/15/22 01:07	1
3-Nitroaniline	ND		4.8	1.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
4-Nitroaniline	ND		2.9	0.87	ug/L		11/14/22 07:55	11/15/22 01:07	1
Nitrobenzene	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
2-Nitrophenol	ND		4.8	0.96	ug/L		11/14/22 07:55	11/15/22 01:07	1
4-Nitrophenol	ND		29	9.6	ug/L		11/14/22 07:55	11/15/22 01:07	1
N-Nitrosodimethylamine	ND		4.8	1.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
N-Nitrosodiphenylamine	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
N-Nitrosodi-n-propylamine	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Pentachlorophenol	ND		4.8	0.96	ug/L		11/14/22 07:55	11/15/22 01:07	1
Phenanthrene	ND		0.48	0.11	ug/L		11/14/22 07:55	11/15/22 01:07	1
Phenol	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
Pyrene	ND		0.48	0.096	ug/L		11/14/22 07:55	11/15/22 01:07	1
Pyridine	ND		4.8	1.9	ug/L		11/14/22 07:55	11/15/22 01:07	1
1,2,4-Trichlorobenzene	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
2,4,5-Trichlorophenol	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1
2,4,6-Trichlorophenol	ND		1.9	0.48	ug/L		11/14/22 07:55	11/15/22 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*10 - 150*	*11/14/22 07:55*	*11/15/22 01:07*	*1*
2-Fluorobiphenyl (Surr)	*68*		*44 - 120*	*11/14/22 07:55*	*11/15/22 01:07*	*1*
2-Fluorophenol (Surr)	*49*		*10 - 120*	*11/14/22 07:55*	*11/15/22 01:07*	*1*
Nitrobenzene-d5 (Surr)	*71*		*25 - 125*	*11/14/22 07:55*	*11/15/22 01:07*	*1*
p-Terphenyl-d14 (Surr)	*84*		*37 - 120*	*11/14/22 07:55*	*11/15/22 01:07*	*1*
Phenol-d5 (Surr)	*38*		*10 - 120*	*11/14/22 07:55*	*11/15/22 01:07*	*1*

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.0037**	**J**	0.010	0.0025	ug/L		11/08/22 13:31	11/08/22 16:40	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0032	ug/L		11/08/22 13:31	11/08/22 16:40	1
1,2,3-Trichloropropane	ND		0.010	0.0050	ug/L		11/08/22 13:31	11/08/22 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**8.3**	**HF**	0.1	0.1	SU			11/18/22 12:10	1

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19192-1

Client Sample ID: IDW-Drum-4-11072022
Date Collected: 11/07/22 13:45
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			11/17/22 15:35	1
Chloromethane	ND		3.0	0.50	ug/L			11/17/22 15:35	1
Vinyl chloride	ND		0.40	0.13	ug/L			11/17/22 15:35	1
Bromomethane	ND		5.0	0.76	ug/L			11/17/22 15:35	1
Chloroethane	ND		2.0	0.40	ug/L			11/17/22 15:35	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/17/22 15:35	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 15:35	1
Methylene Chloride	ND		5.0	2.2	ug/L			11/17/22 15:35	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 15:35	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			11/17/22 15:35	1
2,2-Dichloropropane	ND		2.0	0.66	ug/L			11/17/22 15:35	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			11/17/22 15:35	1
Bromochloromethane	ND		2.0	0.44	ug/L			11/17/22 15:35	1
Chloroform	ND		1.0	0.24	ug/L			11/17/22 15:35	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			11/17/22 15:35	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			11/17/22 15:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			11/17/22 15:35	1
Benzene	ND		0.40	0.093	ug/L			11/17/22 15:35	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			11/17/22 15:35	1
Trichloroethene	ND		1.0	0.20	ug/L			11/17/22 15:35	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			11/17/22 15:35	1
Dibromomethane	ND		2.0	0.50	ug/L			11/17/22 15:35	1
Bromodichloromethane	ND		1.0	0.29	ug/L			11/17/22 15:35	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/17/22 15:35	1
Toluene	ND		1.0	0.31	ug/L			11/17/22 15:35	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			11/17/22 15:35	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			11/17/22 15:35	1
Tetrachloroethene	ND		1.0	0.22	ug/L			11/17/22 15:35	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			11/17/22 15:35	1
Dibromochloromethane	ND		2.0	0.33	ug/L			11/17/22 15:35	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			11/17/22 15:35	1
Chlorobenzene	ND		1.0	0.32	ug/L			11/17/22 15:35	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/17/22 15:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			11/17/22 15:35	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			11/17/22 15:35	1
m,p-Xylene	ND		2.0	0.28	ug/L			11/17/22 15:35	1
o-Xylene	ND		1.0	0.16	ug/L			11/17/22 15:35	1
Styrene	ND		1.0	0.24	ug/L			11/17/22 15:35	1
Bromoform	ND		5.0	0.66	ug/L			11/17/22 15:35	1
Isopropylbenzene	ND		1.0	0.24	ug/L			11/17/22 15:35	1
Bromobenzene	ND		1.0	0.28	ug/L			11/17/22 15:35	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/17/22 15:35	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/17/22 15:35	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			11/17/22 15:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			11/17/22 15:35	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			11/17/22 15:35	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			11/17/22 15:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			11/17/22 15:35	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			11/17/22 15:35	1

Client Sample ID: IDW-Drum-4-11072022
Date Collected: 11/07/22 13:45
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			11/17/22 15:35	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			11/17/22 15:35	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			11/17/22 15:35	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/17/22 15:35	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			11/17/22 15:35	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/17/22 15:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.16	ug/L			11/17/22 15:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			11/17/22 15:35	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			11/17/22 15:35	1
Naphthalene	ND		2.0	0.63	ug/L			11/17/22 15:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/17/22 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/17/22 15:35*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/17/22 15:35*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*11/17/22 15:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*11/17/22 15:35*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
Acenaphthylene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
Aniline	ND	*- *1	4.8	0.95	ug/L		11/14/22 07:54	11/15/22 00:06	1
Anthracene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
Benzidine	ND	*- *1	57	19	ug/L		11/14/22 07:54	11/15/22 00:06	1
Benzo[a]anthracene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
Benzo[b]fluoranthene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
Benzo[k]fluoranthene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
Benzo[g,h,i]perylene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
Benzo[a]pyrene	ND	*1	0.48	0.10	ug/L		11/14/22 07:54	11/15/22 00:06	1
Benzoic acid	ND	*1	24	11	ug/L		11/14/22 07:54	11/15/22 00:06	1
Benzyl alcohol	ND	*1	9.5	3.8	ug/L		11/14/22 07:54	11/15/22 00:06	1
Bis(2-chloroethoxy)methane	ND	*- *1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Bis(2-chloroethyl)ether	ND	*- *1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Bis(2-ethylhexyl) phthalate	ND	*1	4.8	1.9	ug/L		11/14/22 07:54	11/15/22 00:06	1
bis (2-Chloroisopropyl) ether	ND	*1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
4-Bromophenyl phenyl ether	ND	*1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Butyl benzyl phthalate	ND	*1	4.8	1.9	ug/L		11/14/22 07:54	11/15/22 00:06	1
4-Chloroaniline	ND	*- *1	9.5	3.8	ug/L		11/14/22 07:54	11/15/22 00:06	1
4-Chloro-3-methylphenol	ND		4.8	0.95	ug/L		11/14/22 07:54	11/15/22 00:06	1
2-Chloronaphthalene	ND	*1	0.95	0.38	ug/L		11/14/22 07:54	11/15/22 00:06	1
2-Chlorophenol	ND	*1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
4-Chlorophenyl phenyl ether	ND	*1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Chrysene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
Dibenz(a,h)anthracene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
Dibenzofuran	ND	*1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Di-n-butyl phthalate	ND	*1	4.8	1.9	ug/L		11/14/22 07:54	11/15/22 00:06	1
1,2-Dichlorobenzene	ND	*- *1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
1,3-Dichlorobenzene	ND	*- *1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
1,4-Dichlorobenzene	ND	*- *1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1

Client Sample ID: IDW-Drum-4-11072022
Date Collected: 11/07/22 13:45
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-5
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND	*- *1	9.5	3.8	ug/L		11/14/22 07:54	11/15/22 00:06	1
2,4-Dichlorophenol	ND		1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
2,6-Dichlorophenol	ND		1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Diethyl phthalate	ND	*1	4.8	1.9	ug/L		11/14/22 07:54	11/15/22 00:06	1
2,4-Dimethylphenol	ND		9.5	2.9	ug/L		11/14/22 07:54	11/15/22 00:06	1
Dimethyl phthalate	ND	*1	4.8	1.9	ug/L		11/14/22 07:54	11/15/22 00:06	1
4,6-Dinitro-2-methylphenol	ND		20	7.6	ug/L		11/14/22 07:54	11/15/22 00:06	1
2,4-Dinitrophenol	ND		29	13	ug/L		11/14/22 07:54	11/15/22 00:06	1
2,4-Dinitrotoluene	ND	*1	4.8	0.95	ug/L		11/14/22 07:54	11/15/22 00:06	1
2,6-Dinitrotoluene	ND	*- *1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Di-n-octyl phthalate	ND	*1	10	4.8	ug/L		11/14/22 07:54	11/15/22 00:06	1
Fluoranthene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
Fluorene	ND	*1	0.48	0.11	ug/L		11/14/22 07:54	11/15/22 00:06	1
Hexachlorobenzene	ND	*1	0.48	0.10	ug/L		11/14/22 07:54	11/15/22 00:06	1
Hexachloro-1,3-butadiene	ND	*1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Hexachlorocyclopentadiene	ND	*1	10	4.8	ug/L		11/14/22 07:54	11/15/22 00:06	1
Hexachloroethane	ND	*- *1	4.8	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Indeno[1,2,3-cd]pyrene	ND	*1	0.48	0.10	ug/L		11/14/22 07:54	11/15/22 00:06	1
Isophorone	ND	*- *1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
2-Methylnaphthalene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
1-Methylnaphthalene	ND	*- *1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
2-Methylphenol	ND		1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Naphthalene	ND	*- *1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
2-Nitroaniline	ND	*1	4.8	0.95	ug/L		11/14/22 07:54	11/15/22 00:06	1
3-Nitroaniline	ND	*- *1	4.8	1.9	ug/L		11/14/22 07:54	11/15/22 00:06	1
4-Nitroaniline	ND		2.9	0.86	ug/L		11/14/22 07:54	11/15/22 00:06	1
Nitrobenzene	ND	*- *1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
2-Nitrophenol	ND	*1	4.8	0.95	ug/L		11/14/22 07:54	11/15/22 00:06	1
4-Nitrophenol	ND		29	9.5	ug/L		11/14/22 07:54	11/15/22 00:06	1
N-Nitrosodimethylamine	ND	*- *1	4.8	1.9	ug/L		11/14/22 07:54	11/15/22 00:06	1
N-Nitrosodiphenylamine	ND	*1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
N-Nitrosodi-n-propylamine	ND	*- *1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Pentachlorophenol	ND		4.8	0.95	ug/L		11/14/22 07:54	11/15/22 00:06	1
Phenanthrene	ND	*1	0.48	0.10	ug/L		11/14/22 07:54	11/15/22 00:06	1
Phenol	ND	*1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
Pyrene	ND	*1	0.48	0.095	ug/L		11/14/22 07:54	11/15/22 00:06	1
Pyridine	ND	*- *1	4.8	1.9	ug/L		11/14/22 07:54	11/15/22 00:06	1
1,2,4-Trichlorobenzene	ND	*- *1	1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
2,4,5-Trichlorophenol	ND		1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1
2,4,6-Trichlorophenol	ND		1.9	0.48	ug/L		11/14/22 07:54	11/15/22 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*10 - 150*	*11/14/22 07:54*	*11/15/22 00:06*	*1*
2-Fluorobiphenyl (Surr)	*81*		*44 - 120*	*11/14/22 07:54*	*11/15/22 00:06*	*1*
2-Fluorophenol (Surr)	*45*		*10 - 120*	*11/14/22 07:54*	*11/15/22 00:06*	*1*
Nitrobenzene-d5 (Surr)	*87*		*25 - 125*	*11/14/22 07:54*	*11/15/22 00:06*	*1*
p-Terphenyl-d14 (Surr)	*88*		*37 - 120*	*11/14/22 07:54*	*11/15/22 00:06*	*1*
Phenol-d5 (Surr)	*32*		*10 - 120*	*11/14/22 07:54*	*11/15/22 00:06*	*1*

Client Sample ID: IDW-Drum-4-11072022

Lab Sample ID: 590-19192-5

Date Collected: 11/07/22 13:45

Matrix: Water

Date Received: 11/07/22 16:25

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		11/08/22 13:31	11/08/22 16:56	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0032	ug/L		11/08/22 13:31	11/08/22 16:56	1
1,2,3-Trichloropropane	ND		0.010	0.0050	ug/L		11/08/22 13:31	11/08/22 16:56	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.9**	**HF**	0.1	0.1	SU			11/18/22 12:10	1

Client Sample ID: IDW-Drum-5-11072022

Lab Sample ID: 590-19192-6

Date Collected: 11/07/22 13:50

Matrix: Water

Date Received: 11/07/22 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			11/17/22 15:57	1
Chloromethane	ND		3.0	0.50	ug/L			11/17/22 15:57	1
Vinyl chloride	ND		0.40	0.13	ug/L			11/17/22 15:57	1
Bromomethane	ND		5.0	0.76	ug/L			11/17/22 15:57	1
Chloroethane	ND		2.0	0.40	ug/L			11/17/22 15:57	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/17/22 15:57	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 15:57	1
Methylene Chloride	ND		5.0	2.2	ug/L			11/17/22 15:57	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 15:57	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			11/17/22 15:57	1
2,2-Dichloropropane	ND		2.0	0.66	ug/L			11/17/22 15:57	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			11/17/22 15:57	1
Bromochloromethane	ND		2.0	0.44	ug/L			11/17/22 15:57	1
Chloroform	ND		1.0	0.24	ug/L			11/17/22 15:57	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			11/17/22 15:57	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			11/17/22 15:57	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			11/17/22 15:57	1
Benzene	ND		0.40	0.093	ug/L			11/17/22 15:57	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			11/17/22 15:57	1
Trichloroethene	ND		1.0	0.20	ug/L			11/17/22 15:57	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			11/17/22 15:57	1
Dibromomethane	ND		2.0	0.50	ug/L			11/17/22 15:57	1
Bromodichloromethane	ND		1.0	0.29	ug/L			11/17/22 15:57	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/17/22 15:57	1
Toluene	ND		1.0	0.31	ug/L			11/17/22 15:57	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			11/17/22 15:57	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			11/17/22 15:57	1
Tetrachloroethene	ND		1.0	0.22	ug/L			11/17/22 15:57	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			11/17/22 15:57	1
Dibromochloromethane	ND		2.0	0.33	ug/L			11/17/22 15:57	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			11/17/22 15:57	1
Chlorobenzene	ND		1.0	0.32	ug/L			11/17/22 15:57	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/17/22 15:57	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			11/17/22 15:57	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			11/17/22 15:57	1
m,p-Xylene	ND		2.0	0.28	ug/L			11/17/22 15:57	1

Client Sample ID: IDW-Drum-5-11072022
Date Collected: 11/07/22 13:50
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0	0.16	ug/L			11/17/22 15:57	1
Styrene	ND		1.0	0.24	ug/L			11/17/22 15:57	1
Bromoform	ND		5.0	0.66	ug/L			11/17/22 15:57	1
Isopropylbenzene	ND		1.0	0.24	ug/L			11/17/22 15:57	1
Bromobenzene	ND		1.0	0.28	ug/L			11/17/22 15:57	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/17/22 15:57	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/17/22 15:57	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			11/17/22 15:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			11/17/22 15:57	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			11/17/22 15:57	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			11/17/22 15:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			11/17/22 15:57	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			11/17/22 15:57	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			11/17/22 15:57	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			11/17/22 15:57	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			11/17/22 15:57	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/17/22 15:57	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			11/17/22 15:57	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/17/22 15:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.16	ug/L			11/17/22 15:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			11/17/22 15:57	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			11/17/22 15:57	1
Naphthalene	ND		2.0	0.63	ug/L			11/17/22 15:57	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/17/22 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/17/22 15:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/17/22 15:57*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*11/17/22 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*11/17/22 15:57*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
Acenaphthylene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
Aniline	ND	*- *1	4.7	0.94	ug/L		11/14/22 07:54	11/15/22 00:46	1
Anthracene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
Benzidine	ND	*- *1	57	19	ug/L		11/14/22 07:54	11/15/22 00:46	1
Benzo[a]anthracene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
Benzo[b]fluoranthene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
Benzo[k]fluoranthene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
Benzo[g,h,i]perylene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
Benzo[a]pyrene	ND	*1	0.47	0.10	ug/L		11/14/22 07:54	11/15/22 00:46	1
Benzoic acid	ND	*1	24	11	ug/L		11/14/22 07:54	11/15/22 00:46	1
Benzyl alcohol	ND	*1	9.4	3.8	ug/L		11/14/22 07:54	11/15/22 00:46	1
Bis(2-chloroethoxy)methane	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
Bis(2-chloroethyl)ether	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
Bis(2-ethylhexyl) phthalate	ND	*1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 00:46	1
bis (2-Chloroisopropyl) ether	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
4-Bromophenyl phenyl ether	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19192-1

Client Sample ID: IDW-Drum-5-11072022
Date Collected: 11/07/22 13:50
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-6
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND	*1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 00:46	1
4-Chloroaniline	ND	*- *1	9.4	3.8	ug/L		11/14/22 07:54	11/15/22 00:46	1
4-Chloro-3-methylphenol	ND		4.7	0.94	ug/L		11/14/22 07:54	11/15/22 00:46	1
2-Chloronaphthalene	ND	*1	0.94	0.38	ug/L		11/14/22 07:54	11/15/22 00:46	1
2-Chlorophenol	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
4-Chlorophenyl phenyl ether	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
Chrysene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
Dibenz(a,h)anthracene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
Dibenzofuran	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
Di-n-butyl phthalate	ND	*1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 00:46	1
1,2-Dichlorobenzene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
1,3-Dichlorobenzene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
1,4-Dichlorobenzene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
3,3'-Dichlorobenzidine	ND	*- *1	9.4	3.8	ug/L		11/14/22 07:54	11/15/22 00:46	1
2,4-Dichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
2,6-Dichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
Diethyl phthalate	ND	*1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 00:46	1
2,4-Dimethylphenol	ND		9.4	2.8	ug/L		11/14/22 07:54	11/15/22 00:46	1
Dimethyl phthalate	ND	*1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 00:46	1
4,6-Dinitro-2-methylphenol	ND		20	7.5	ug/L		11/14/22 07:54	11/15/22 00:46	1
2,4-Dinitrophenol	ND		28	13	ug/L		11/14/22 07:54	11/15/22 00:46	1
2,4-Dinitrotoluene	ND	*1	4.7	0.94	ug/L		11/14/22 07:54	11/15/22 00:46	1
2,6-Dinitrotoluene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
Di-n-octyl phthalate	ND	*1	10	4.7	ug/L		11/14/22 07:54	11/15/22 00:46	1
Fluoranthene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
Fluorene	ND	*1	0.47	0.11	ug/L		11/14/22 07:54	11/15/22 00:46	1
Hexachlorobenzene	ND	*1	0.47	0.10	ug/L		11/14/22 07:54	11/15/22 00:46	1
Hexachloro-1,3-butadiene	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
Hexachlorocyclopentadiene	ND	*1	10	4.7	ug/L		11/14/22 07:54	11/15/22 00:46	1
Hexachloroethane	ND	*- *1	4.7	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
Indeno[1,2,3-cd]pyrene	ND	*1	0.47	0.10	ug/L		11/14/22 07:54	11/15/22 00:46	1
Isophorone	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
2-Methylnaphthalene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
1-Methylnaphthalene	ND	*- *1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
2-Methylphenol	ND		1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
Naphthalene	ND	*- *1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1
2-Nitroaniline	ND	*1	4.7	0.94	ug/L		11/14/22 07:54	11/15/22 00:46	1
3-Nitroaniline	ND	*- *1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 00:46	1
4-Nitroaniline	ND		2.8	0.85	ug/L		11/14/22 07:54	11/15/22 00:46	1
Nitrobenzene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
2-Nitrophenol	ND	*1	4.7	0.94	ug/L		11/14/22 07:54	11/15/22 00:46	1
4-Nitrophenol	ND		28	9.4	ug/L		11/14/22 07:54	11/15/22 00:46	1
N-Nitrosodimethylamine	ND	*- *1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 00:46	1
N-Nitrosodiphenylamine	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
N-Nitrosodi-n-propylamine	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
Pentachlorophenol	ND		4.7	0.94	ug/L		11/14/22 07:54	11/15/22 00:46	1
Phenanthrene	ND	*1	0.47	0.10	ug/L		11/14/22 07:54	11/15/22 00:46	1
Phenol	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
Pyrene	ND	*1	0.47	0.094	ug/L		11/14/22 07:54	11/15/22 00:46	1

Client Sample ID: IDW-Drum-5-11072022

Lab Sample ID: 590-19192-6

Date Collected: 11/07/22 13:50

Matrix: Water

Date Received: 11/07/22 16:25

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND	*- *1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 00:46	1
1,2,4-Trichlorobenzene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
2,4,5-Trichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1
2,4,6-Trichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:54	11/15/22 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*10 - 150*	*11/14/22 07:54*	*11/15/22 00:46*	*1*
2-Fluorobiphenyl (Surr)	*84*		*44 - 120*	*11/14/22 07:54*	*11/15/22 00:46*	*1*
2-Fluorophenol (Surr)	*45*		*10 - 120*	*11/14/22 07:54*	*11/15/22 00:46*	*1*
Nitrobenzene-d5 (Surr)	*80*		*25 - 125*	*11/14/22 07:54*	*11/15/22 00:46*	*1*
p-Terphenyl-d14 (Surr)	*88*		*37 - 120*	*11/14/22 07:54*	*11/15/22 00:46*	*1*
Phenol-d5 (Surr)	*30*		*10 - 120*	*11/14/22 07:54*	*11/15/22 00:46*	*1*

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		11/08/22 13:31	11/08/22 17:12	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0032	ug/L		11/08/22 13:31	11/08/22 17:12	1
1,2,3-Trichloropropane	ND		0.010	0.0050	ug/L		11/08/22 13:31	11/08/22 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.6**	**HF**	0.1	0.1	SU			11/18/22 12:10	1

Client Sample ID: IDW-Drum-6-11072022

Lab Sample ID: 590-19192-7

Date Collected: 11/07/22 13:55

Matrix: Water

Date Received: 11/07/22 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			11/17/22 16:40	1
Chloromethane	ND		3.0	0.50	ug/L			11/17/22 16:40	1
Vinyl chloride	ND		0.40	0.13	ug/L			11/17/22 16:40	1
Bromomethane	ND		5.0	0.76	ug/L			11/17/22 16:40	1
Chloroethane	ND		2.0	0.40	ug/L			11/17/22 16:40	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/17/22 16:40	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 16:40	1
Methylene Chloride	ND		5.0	2.2	ug/L			11/17/22 16:40	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 16:40	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			11/17/22 16:40	1
2,2-Dichloropropane	ND		2.0	0.66	ug/L			11/17/22 16:40	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			11/17/22 16:40	1
Bromochloromethane	ND		2.0	0.44	ug/L			11/17/22 16:40	1
Chloroform	ND		1.0	0.24	ug/L			11/17/22 16:40	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			11/17/22 16:40	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			11/17/22 16:40	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			11/17/22 16:40	1
Benzene	ND		0.40	0.093	ug/L			11/17/22 16:40	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			11/17/22 16:40	1
Trichloroethene	ND		1.0	0.20	ug/L			11/17/22 16:40	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			11/17/22 16:40	1
Dibromomethane	ND		2.0	0.50	ug/L			11/17/22 16:40	1

Client Sample ID: IDW-Drum-6-11072022
Date Collected: 11/07/22 13:55
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.29	ug/L			11/17/22 16:40	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/17/22 16:40	1
Toluene	ND		1.0	0.31	ug/L			11/17/22 16:40	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			11/17/22 16:40	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			11/17/22 16:40	1
Tetrachloroethene	ND		1.0	0.22	ug/L			11/17/22 16:40	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			11/17/22 16:40	1
Dibromochloromethane	ND		2.0	0.33	ug/L			11/17/22 16:40	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			11/17/22 16:40	1
Chlorobenzene	ND		1.0	0.32	ug/L			11/17/22 16:40	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/17/22 16:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			11/17/22 16:40	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			11/17/22 16:40	1
m,p-Xylene	ND		2.0	0.28	ug/L			11/17/22 16:40	1
o-Xylene	ND		1.0	0.16	ug/L			11/17/22 16:40	1
Styrene	ND		1.0	0.24	ug/L			11/17/22 16:40	1
Bromoform	ND		5.0	0.66	ug/L			11/17/22 16:40	1
Isopropylbenzene	ND		1.0	0.24	ug/L			11/17/22 16:40	1
Bromobenzene	ND		1.0	0.28	ug/L			11/17/22 16:40	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/17/22 16:40	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/17/22 16:40	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			11/17/22 16:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			11/17/22 16:40	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			11/17/22 16:40	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			11/17/22 16:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			11/17/22 16:40	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			11/17/22 16:40	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			11/17/22 16:40	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			11/17/22 16:40	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			11/17/22 16:40	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/17/22 16:40	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			11/17/22 16:40	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/17/22 16:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.16	ug/L			11/17/22 16:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			11/17/22 16:40	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			11/17/22 16:40	1
Naphthalene	ND		2.0	0.63	ug/L			11/17/22 16:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/17/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/17/22 16:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/17/22 16:40*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/17/22 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*11/17/22 16:40*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
Acenaphthylene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
Aniline	ND	*- *1	4.7	0.95	ug/L		11/14/22 07:54	11/15/22 01:06	1

Client Sample ID: IDW-Drum-6-11072022
Date Collected: 11/07/22 13:55
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-7
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
Benzidine	ND	*- *1	57	19	ug/L		11/14/22 07:54	11/15/22 01:06	1
Benzo[a]anthracene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
Benzo[b]fluoranthene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
Benzo[k]fluoranthene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
Benzo[g,h,i]perylene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
Benzo[a]pyrene	ND	*1	0.47	0.10	ug/L		11/14/22 07:54	11/15/22 01:06	1
Benzoic acid	ND	*1	24	11	ug/L		11/14/22 07:54	11/15/22 01:06	1
Benzyl alcohol	ND	*1	9.5	3.8	ug/L		11/14/22 07:54	11/15/22 01:06	1
Bis(2-chloroethoxy)methane	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
Bis(2-chloroethyl)ether	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
Bis(2-ethylhexyl) phthalate	ND	*1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 01:06	1
bis (2-Chloroisopropyl) ether	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
4-Bromophenyl phenyl ether	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
Butyl benzyl phthalate	ND	*1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 01:06	1
4-Chloroaniline	ND	*- *1	9.5	3.8	ug/L		11/14/22 07:54	11/15/22 01:06	1
4-Chloro-3-methylphenol	ND		4.7	0.95	ug/L		11/14/22 07:54	11/15/22 01:06	1
2-Chloronaphthalene	ND	*1	0.95	0.38	ug/L		11/14/22 07:54	11/15/22 01:06	1
2-Chlorophenol	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
4-Chlorophenyl phenyl ether	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
Chrysene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
Dibenz(a,h)anthracene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
Dibenzofuran	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
Di-n-butyl phthalate	ND	*1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 01:06	1
1,2-Dichlorobenzene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
1,3-Dichlorobenzene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
1,4-Dichlorobenzene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
3,3'-Dichlorobenzidine	ND	*- *1	9.5	3.8	ug/L		11/14/22 07:54	11/15/22 01:06	1
2,4-Dichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
2,6-Dichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
Diethyl phthalate	ND	*1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 01:06	1
2,4-Dimethylphenol	ND		9.5	2.8	ug/L		11/14/22 07:54	11/15/22 01:06	1
Dimethyl phthalate	ND	*1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 01:06	1
4,6-Dinitro-2-methylphenol	ND		20	7.6	ug/L		11/14/22 07:54	11/15/22 01:06	1
2,4-Dinitrophenol	ND		28	13	ug/L		11/14/22 07:54	11/15/22 01:06	1
2,4-Dinitrotoluene	ND	*1	4.7	0.95	ug/L		11/14/22 07:54	11/15/22 01:06	1
2,6-Dinitrotoluene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
Di-n-octyl phthalate	ND	*1	10	4.7	ug/L		11/14/22 07:54	11/15/22 01:06	1
Fluoranthene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
Fluorene	ND	*1	0.47	0.11	ug/L		11/14/22 07:54	11/15/22 01:06	1
Hexachlorobenzene	ND	*1	0.47	0.10	ug/L		11/14/22 07:54	11/15/22 01:06	1
Hexachloro-1,3-butadiene	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
Hexachlorocyclopentadiene	ND	*1	10	4.7	ug/L		11/14/22 07:54	11/15/22 01:06	1
Hexachloroethane	ND	*- *1	4.7	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
Indeno[1,2,3-cd]pyrene	ND	*1	0.47	0.10	ug/L		11/14/22 07:54	11/15/22 01:06	1
Isophorone	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
2-Methylnaphthalene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
1-Methylnaphthalene	ND	*- *1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
2-Methylphenol	ND		1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1

Client Sample ID: IDW-Drum-6-11072022

Lab Sample ID: 590-19192-7

Date Collected: 11/07/22 13:55

Matrix: Water

Date Received: 11/07/22 16:25

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	*- *1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
2-Nitroaniline	ND	*1	4.7	0.95	ug/L		11/14/22 07:54	11/15/22 01:06	1
3-Nitroaniline	ND	*- *1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 01:06	1
4-Nitroaniline	ND		2.8	0.85	ug/L		11/14/22 07:54	11/15/22 01:06	1
Nitrobenzene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
2-Nitrophenol	ND	*1	4.7	0.95	ug/L		11/14/22 07:54	11/15/22 01:06	1
4-Nitrophenol	ND		28	9.5	ug/L		11/14/22 07:54	11/15/22 01:06	1
N-Nitrosodimethylamine	ND	*- *1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 01:06	1
N-Nitrosodiphenylamine	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
N-Nitrosodi-n-propylamine	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
Pentachlorophenol	ND		4.7	0.95	ug/L		11/14/22 07:54	11/15/22 01:06	1
Phenanthrene	ND	*1	0.47	0.10	ug/L		11/14/22 07:54	11/15/22 01:06	1
Phenol	ND	*1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
Pyrene	ND	*1	0.47	0.095	ug/L		11/14/22 07:54	11/15/22 01:06	1
Pyridine	ND	*- *1	4.7	1.9	ug/L		11/14/22 07:54	11/15/22 01:06	1
1,2,4-Trichlorobenzene	ND	*- *1	1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
2,4,5-Trichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1
2,4,6-Trichlorophenol	ND		1.9	0.47	ug/L		11/14/22 07:54	11/15/22 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 150*	*11/14/22 07:54*	*11/15/22 01:06*	*1*
2-Fluorobiphenyl (Surr)	*83*		*44 - 120*	*11/14/22 07:54*	*11/15/22 01:06*	*1*
2-Fluorophenol (Surr)	*48*		*10 - 120*	*11/14/22 07:54*	*11/15/22 01:06*	*1*
Nitrobenzene-d5 (Surr)	*84*		*25 - 125*	*11/14/22 07:54*	*11/15/22 01:06*	*1*
p-Terphenyl-d14 (Surr)	*91*		*37 - 120*	*11/14/22 07:54*	*11/15/22 01:06*	*1*
Phenol-d5 (Surr)	*31*		*10 - 120*	*11/14/22 07:54*	*11/15/22 01:06*	*1*

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		11/08/22 13:31	11/08/22 17:28	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0032	ug/L		11/08/22 13:31	11/08/22 17:28	1
1,2,3-Trichloropropane	ND		0.010	0.0050	ug/L		11/08/22 13:31	11/08/22 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**8.2**	**HF**	0.1	0.1	SU			11/18/22 12:10	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-19192-8

Date Collected: 11/07/22 00:00

Matrix: Water

Date Received: 11/07/22 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			11/17/22 17:02	1
Chloromethane	ND		3.0	0.50	ug/L			11/17/22 17:02	1
Vinyl chloride	ND		0.40	0.13	ug/L			11/17/22 17:02	1
Bromomethane	ND		5.0	0.76	ug/L			11/17/22 17:02	1
Chloroethane	ND		2.0	0.40	ug/L			11/17/22 17:02	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/17/22 17:02	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 17:02	1
Methylene Chloride	ND		5.0	2.2	ug/L			11/17/22 17:02	1

Client Sample ID: Trip Blank
Date Collected: 11/07/22 00:00
Date Received: 11/07/22 16:25

Lab Sample ID: 590-19192-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 17:02	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			11/17/22 17:02	1
2,2-Dichloropropane	ND		2.0	0.66	ug/L			11/17/22 17:02	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			11/17/22 17:02	1
Bromochloromethane	ND		2.0	0.44	ug/L			11/17/22 17:02	1
Chloroform	ND		1.0	0.24	ug/L			11/17/22 17:02	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			11/17/22 17:02	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			11/17/22 17:02	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			11/17/22 17:02	1
Benzene	ND		0.40	0.093	ug/L			11/17/22 17:02	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			11/17/22 17:02	1
Trichloroethene	ND		1.0	0.20	ug/L			11/17/22 17:02	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			11/17/22 17:02	1
Dibromomethane	ND		2.0	0.50	ug/L			11/17/22 17:02	1
Bromodichloromethane	ND		1.0	0.29	ug/L			11/17/22 17:02	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/17/22 17:02	1
Toluene	ND		1.0	0.31	ug/L			11/17/22 17:02	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			11/17/22 17:02	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			11/17/22 17:02	1
Tetrachloroethene	ND		1.0	0.22	ug/L			11/17/22 17:02	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			11/17/22 17:02	1
Dibromochloromethane	ND		2.0	0.33	ug/L			11/17/22 17:02	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			11/17/22 17:02	1
Chlorobenzene	ND		1.0	0.32	ug/L			11/17/22 17:02	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/17/22 17:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			11/17/22 17:02	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			11/17/22 17:02	1
m,p-Xylene	ND		2.0	0.28	ug/L			11/17/22 17:02	1
o-Xylene	ND		1.0	0.16	ug/L			11/17/22 17:02	1
Styrene	ND		1.0	0.24	ug/L			11/17/22 17:02	1
Bromoform	ND		5.0	0.66	ug/L			11/17/22 17:02	1
Isopropylbenzene	ND		1.0	0.24	ug/L			11/17/22 17:02	1
Bromobenzene	ND		1.0	0.28	ug/L			11/17/22 17:02	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/17/22 17:02	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/17/22 17:02	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			11/17/22 17:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			11/17/22 17:02	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			11/17/22 17:02	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			11/17/22 17:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			11/17/22 17:02	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			11/17/22 17:02	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			11/17/22 17:02	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			11/17/22 17:02	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			11/17/22 17:02	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/17/22 17:02	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			11/17/22 17:02	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/17/22 17:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.16	ug/L			11/17/22 17:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			11/17/22 17:02	1

Client Sample ID: Trip Blank
Lab Sample ID: 590-19192-8
Date Collected: 11/07/22 00:00
Matrix: Water
Date Received: 11/07/22 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.0	0.21	ug/L			11/17/22 17:02	1
Naphthalene	ND		2.0	0.63	ug/L			11/17/22 17:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/17/22 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/17/22 17:02*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/17/22 17:02*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/17/22 17:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*11/17/22 17:02*	*1*

Method: EPA 8011 - EDB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		11/08/22 13:31	11/08/22 18:01	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0032	ug/L		11/08/22 13:31	11/08/22 18:01	1
1,2,3-Trichloropropane	ND		0.010	0.0050	ug/L		11/08/22 13:31	11/08/22 18:01	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-39122/6
Matrix: Water
Analysis Batch: 39122

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			11/17/22 12:40	1
Chloromethane	ND		3.0	0.50	ug/L			11/17/22 12:40	1
Vinyl chloride	ND		0.40	0.13	ug/L			11/17/22 12:40	1
Bromomethane	ND		5.0	0.76	ug/L			11/17/22 12:40	1
Chloroethane	ND		2.0	0.40	ug/L			11/17/22 12:40	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/17/22 12:40	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 12:40	1
Methylene Chloride	ND		5.0	2.2	ug/L			11/17/22 12:40	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/17/22 12:40	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			11/17/22 12:40	1
2,2-Dichloropropane	ND		2.0	0.66	ug/L			11/17/22 12:40	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			11/17/22 12:40	1
Bromochloromethane	ND		2.0	0.44	ug/L			11/17/22 12:40	1
Chloroform	ND		1.0	0.24	ug/L			11/17/22 12:40	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			11/17/22 12:40	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			11/17/22 12:40	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			11/17/22 12:40	1
Benzene	ND		0.40	0.093	ug/L			11/17/22 12:40	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			11/17/22 12:40	1
Trichloroethene	ND		1.0	0.20	ug/L			11/17/22 12:40	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			11/17/22 12:40	1
Dibromomethane	ND		2.0	0.50	ug/L			11/17/22 12:40	1
Bromodichloromethane	ND		1.0	0.29	ug/L			11/17/22 12:40	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/17/22 12:40	1
Toluene	0.338	J	1.0	0.31	ug/L			11/17/22 12:40	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			11/17/22 12:40	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			11/17/22 12:40	1
Tetrachloroethene	ND		1.0	0.22	ug/L			11/17/22 12:40	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			11/17/22 12:40	1
Dibromochloromethane	ND		2.0	0.33	ug/L			11/17/22 12:40	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			11/17/22 12:40	1
Chlorobenzene	ND		1.0	0.32	ug/L			11/17/22 12:40	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/17/22 12:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			11/17/22 12:40	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			11/17/22 12:40	1
m,p-Xylene	ND		2.0	0.28	ug/L			11/17/22 12:40	1
o-Xylene	ND		1.0	0.16	ug/L			11/17/22 12:40	1
Styrene	ND		1.0	0.24	ug/L			11/17/22 12:40	1
Bromoform	ND		5.0	0.66	ug/L			11/17/22 12:40	1
Isopropylbenzene	ND		1.0	0.24	ug/L			11/17/22 12:40	1
Bromobenzene	ND		1.0	0.28	ug/L			11/17/22 12:40	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/17/22 12:40	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/17/22 12:40	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			11/17/22 12:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			11/17/22 12:40	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			11/17/22 12:40	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			11/17/22 12:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			11/17/22 12:40	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 590-39122/6
Matrix: Water
Analysis Batch: 39122

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.22	ug/L			11/17/22 12:40	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			11/17/22 12:40	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			11/17/22 12:40	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			11/17/22 12:40	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/17/22 12:40	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			11/17/22 12:40	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/17/22 12:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.16	ug/L			11/17/22 12:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			11/17/22 12:40	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			11/17/22 12:40	1
Naphthalene	0.630	J	2.0	0.63	ug/L			11/17/22 12:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/17/22 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/17/22 12:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/17/22 12:40*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*11/17/22 12:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*11/17/22 12:40*	*1*

Lab Sample ID: LCS 590-39122/1004
Matrix: Water
Analysis Batch: 39122

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10.0	9.81		ug/L		98	31 - 150
Chloromethane	10.0	9.01		ug/L		90	40 - 150
Vinyl chloride	10.0	9.87		ug/L		99	47 - 150
Bromomethane	10.0	10.1		ug/L		101	54 - 143
Chloroethane	10.0	10.3		ug/L		103	56 - 145
Trichlorofluoromethane	10.0	10.8		ug/L		108	60 - 150
1,1-Dichloroethene	10.0	10.6		ug/L		106	75 - 140
Methylene Chloride	10.0	9.93		ug/L		99	57 - 150
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	75 - 132
1,1-Dichloroethane	10.0	9.91		ug/L		99	79 - 121
2,2-Dichloropropane	10.0	10.0		ug/L		100	69 - 143
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	80 - 121
Bromochloromethane	10.0	10.9		ug/L		109	70 - 140
Chloroform	10.0	10.4		ug/L		104	80 - 126
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	80 - 130
Carbon tetrachloride	10.0	10.1		ug/L		101	75 - 126
1,1-Dichloropropene	10.0	10.8		ug/L		108	76 - 125
Benzene	10.0	10.4		ug/L		104	80 - 126
1,2-Dichloroethane	10.0	10.2		ug/L		102	76 - 127
Trichloroethene	10.0	10.0		ug/L		100	75 - 129
1,2-Dichloropropane	10.0	10.1		ug/L		101	80 - 121
Dibromomethane	10.0	9.89		ug/L		99	70 - 126
Bromodichloromethane	10.0	9.93		ug/L		99	73 - 135
cis-1,3-Dichloropropene	10.0	10.1		ug/L		101	72 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 590-39122/1004
Matrix: Water
Analysis Batch: 39122

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	10.0	10.5		ug/L		105	80 - 129
trans-1,3-Dichloropropene	10.0	10.7		ug/L		107	74 - 120
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	80 - 126
Tetrachloroethene	10.0	10.8		ug/L		108	77 - 124
1,3-Dichloropropane	10.0	10.7		ug/L		107	73 - 126
Dibromochloromethane	10.0	10.3		ug/L		103	72 - 122
1,2-Dibromoethane (EDB)	10.0	10.7		ug/L		107	74 - 120
Chlorobenzene	10.0	10.4		ug/L		104	79 - 125
Ethylbenzene	10.0	10.7		ug/L		107	80 - 128
1,1,1,2-Tetrachloroethane	10.0	10.4		ug/L		104	75 - 125
1,1,2,2-Tetrachloroethane	10.0	10.7		ug/L		107	75 - 121
m,p-Xylene	10.0	10.8		ug/L		108	80 - 127
o-Xylene	10.0	10.6		ug/L		106	80 - 126
Styrene	10.0	10.4		ug/L		104	75 - 136
Bromoform	10.0	10.6		ug/L		106	46 - 134
Isopropylbenzene	10.0	10.7		ug/L		107	77 - 123
Bromobenzene	10.0	9.84		ug/L		98	77 - 128
N-Propylbenzene	10.0	10.5		ug/L		105	67 - 138
1,2,3-Trichloropropane	10.0	11.7		ug/L		117	72 - 128
2-Chlorotoluene	10.0	10.1		ug/L		101	76 - 131
1,3,5-Trimethylbenzene	10.0	10.9		ug/L		109	69 - 134
4-Chlorotoluene	10.0	10.5		ug/L		105	70 - 132
tert-Butylbenzene	10.0	10.5		ug/L		105	68 - 122
1,2,4-Trimethylbenzene	10.0	10.7		ug/L		107	78 - 123
sec-Butylbenzene	10.0	10.8		ug/L		108	67 - 131
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	74 - 128
p-Isopropyltoluene	10.0	10.3		ug/L		103	72 - 127
1,4-Dichlorobenzene	10.0	10.0		ug/L		100	74 - 121
n-Butylbenzene	10.0	9.74		ug/L		97	71 - 127
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	73 - 127
1,2-Dibromo-3-Chloropropane	10.0	11.2		ug/L		112	47 - 136
1,2,4-Trichlorobenzene	10.0	10.2		ug/L		102	75 - 136
1,2,3-Trichlorobenzene	10.0	10.1		ug/L		101	74 - 135
Hexachlorobutadiene	10.0	10.0		ug/L		100	65 - 150
Naphthalene	10.0	10.6		ug/L		106	60 - 130
Methyl tert-butyl ether	10.0	10.7		ug/L		107	77 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-39122/4
Matrix: Water
Analysis Batch: 39122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane			10.0	9.81		ug/L		98	31 - 150	0	25
Chloromethane			10.0	9.01		ug/L		90	40 - 150	0	28
Vinyl chloride			10.0	9.87		ug/L		99	47 - 150	0	18
Bromomethane			10.0	10.1		ug/L		101	54 - 143	0	25
Chloroethane			10.0	10.3		ug/L		103	56 - 145	0	25
Trichlorofluoromethane			10.0	10.8		ug/L		108	60 - 150	0	19
1,1-Dichloroethene			10.0	10.6		ug/L		106	75 - 140	0	24
Methylene Chloride			10.0	9.93		ug/L		99	57 - 150	0	24
trans-1,2-Dichloroethene			10.0	10.5		ug/L		105	75 - 132	0	17
1,1-Dichloroethane			10.0	9.91		ug/L		99	79 - 121	0	16
2,2-Dichloropropane			10.0	10.0		ug/L		100	69 - 143	0	25
cis-1,2-Dichloroethene			10.0	10.0		ug/L		100	80 - 121	0	18
Bromochloromethane			10.0	10.9		ug/L		109	70 - 140	0	18
Chloroform			10.0	10.4		ug/L		104	80 - 126	0	18
1,1,1-Trichloroethane			10.0	10.4		ug/L		104	80 - 130	0	18
Carbon tetrachloride			10.0	10.1		ug/L		101	75 - 126	0	17
1,1-Dichloropropene			10.0	10.8		ug/L		108	76 - 125	0	15
Benzene			10.0	10.4		ug/L		104	80 - 126	0	18
1,2-Dichloroethane			10.0	10.2		ug/L		102	76 - 127	0	16
Trichloroethene			10.0	10.0		ug/L		100	75 - 129	0	17
1,2-Dichloropropane			10.0	10.1		ug/L		101	80 - 121	0	18
Dibromomethane			10.0	9.89		ug/L		99	70 - 126	0	21
Bromodichloromethane			10.0	9.93		ug/L		99	73 - 135	0	19
cis-1,3-Dichloropropene			10.0	10.1		ug/L		101	72 - 129	0	20
Toluene			10.0	10.5		ug/L		105	80 - 129	0	18
trans-1,3-Dichloropropene			10.0	10.7		ug/L		107	74 - 120	0	17
1,1,2-Trichloroethane			10.0	10.7		ug/L		107	80 - 126	0	16
Tetrachloroethene			10.0	10.8		ug/L		108	77 - 124	0	22
1,3-Dichloropropane			10.0	10.7		ug/L		107	73 - 126	0	23
Dibromochloromethane			10.0	10.3		ug/L		103	72 - 122	0	19
1,2-Dibromoethane (EDB)			10.0	10.7		ug/L		107	74 - 120	0	17
Chlorobenzene			10.0	10.4		ug/L		104	79 - 125	0	17
Ethylbenzene			10.0	10.7		ug/L		107	80 - 128	0	18
1,1,1,2-Tetrachloroethane			10.0	10.4		ug/L		104	75 - 125	0	15
1,1,2,2-Tetrachloroethane			10.0	10.7		ug/L		107	75 - 121	0	21
m,p-Xylene			10.0	10.8		ug/L		108	80 - 127	0	18
o-Xylene			10.0	10.6		ug/L		106	80 - 126	0	17
Styrene			10.0	10.4		ug/L		104	75 - 136	0	17
Bromoform			10.0	10.6		ug/L		106	46 - 134	0	20
Isopropylbenzene			10.0	10.7		ug/L		107	77 - 123	0	17
Bromobenzene			10.0	9.84		ug/L		98	77 - 128	0	18
N-Propylbenzene			10.0	10.5		ug/L		105	67 - 138	0	18
1,2,3-Trichloropropane			10.0	11.7		ug/L		117	72 - 128	0	25
2-Chlorotoluene			10.0	10.1		ug/L		101	76 - 131	0	25
1,3,5-Trimethylbenzene			10.0	10.9		ug/L		109	69 - 134	0	17
4-Chlorotoluene			10.0	10.5		ug/L		105	70 - 132	0	18
tert-Butylbenzene			10.0	10.5		ug/L		105	68 - 122	0	19
1,2,4-Trimethylbenzene			10.0	10.7		ug/L		107	78 - 123	0	17

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-39122/4
Matrix: Water
Analysis Batch: 39122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene			10.0	10.8		ug/L		108	67 - 131	0	19
1,3-Dichlorobenzene			10.0	10.5		ug/L		105	74 - 128	0	17
p-Isopropyltoluene			10.0	10.3		ug/L		103	72 - 127	0	18
1,4-Dichlorobenzene			10.0	10.0		ug/L		100	74 - 121	0	18
n-Butylbenzene			10.0	9.74		ug/L		97	71 - 127	0	19
1,2-Dichlorobenzene			10.0	10.1		ug/L		101	73 - 127	0	16
1,2-Dibromo-3-Chloropropane			10.0	11.2		ug/L		112	47 - 136	0	34
1,2,4-Trichlorobenzene			10.0	10.2		ug/L		102	75 - 136	0	26
1,2,3-Trichlorobenzene			10.0	10.1		ug/L		101	74 - 135	0	27
Hexachlorobutadiene			10.0	10.0		ug/L		100	65 - 150	0	22
Naphthalene			10.0	10.6		ug/L		106	60 - 130	0	32
Methyl tert-butyl ether			10.0	10.7		ug/L		107	77 - 128	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-317127/1-A
Matrix: Water
Analysis Batch: 317400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317127

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
Acenaphthylene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
Aniline	ND		5.0	1.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
Anthracene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
Benzidine	ND		60	20	ug/L		11/14/22 07:54	11/14/22 22:06	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
Benzo[b]fluoranthene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
Benzo[k]fluoranthene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
Benzo[g,h,i]perylene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
Benzo[a]pyrene	ND		0.50	0.11	ug/L		11/14/22 07:54	11/14/22 22:06	1
Benzoic acid	ND		25	12	ug/L		11/14/22 07:54	11/14/22 22:06	1
Benzyl alcohol	ND		10	4.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
Bis(2-chloroethoxy)methane	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
Bis(2-chloroethyl)ether	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
bis (2-Chloroisopropyl) ether	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
4-Bromophenyl phenyl ether	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
Butyl benzyl phthalate	ND		5.0	2.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
4-Chloroaniline	ND		10	4.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
4-Chloro-3-methylphenol	ND		5.0	1.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
2-Chloronaphthalene	ND		1.0	0.40	ug/L		11/14/22 07:54	11/14/22 22:06	1
2-Chlorophenol	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
4-Chlorophenyl phenyl ether	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-317127/1-A
Matrix: Water
Analysis Batch: 317400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317127

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
Dibenzofuran	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
Di-n-butyl phthalate	ND		5.0	2.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
1,2-Dichlorobenzene	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
1,4-Dichlorobenzene	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
3,3'-Dichlorobenzidine	ND		10	4.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
2,4-Dichlorophenol	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
2,6-Dichlorophenol	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
Diethyl phthalate	ND		5.0	2.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
Dimethyl phthalate	ND		5.0	2.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
4,6-Dinitro-2-methylphenol	ND		21	8.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
2,4-Dinitrophenol	ND		30	14	ug/L		11/14/22 07:54	11/14/22 22:06	1
2,4-Dinitrotoluene	ND		5.0	1.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
2,6-Dinitrotoluene	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
Di-n-octyl phthalate	ND		11	5.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
Fluoranthene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
Fluorene	ND		0.50	0.12	ug/L		11/14/22 07:54	11/14/22 22:06	1
Hexachlorobenzene	ND		0.50	0.11	ug/L		11/14/22 07:54	11/14/22 22:06	1
Hexachloro-1,3-butadiene	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
Hexachlorocyclopentadiene	ND		11	5.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
Hexachloroethane	ND		5.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		11/14/22 07:54	11/14/22 22:06	1
Isophorone	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
2-Methylnaphthalene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
1-Methylnaphthalene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
2-Methylphenol	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
Naphthalene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
2-Nitroaniline	ND		5.0	1.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
3-Nitroaniline	ND		5.0	2.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
4-Nitroaniline	ND		3.0	0.90	ug/L		11/14/22 07:54	11/14/22 22:06	1
Nitrobenzene	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
2-Nitrophenol	ND		5.0	1.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
4-Nitrophenol	ND		30	10	ug/L		11/14/22 07:54	11/14/22 22:06	1
N-Nitrosodimethylamine	ND		5.0	2.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
N-Nitrosodiphenylamine	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
N-Nitrosodi-n-propylamine	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
Pentachlorophenol	ND		5.0	1.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
Phenanthrene	ND		0.50	0.11	ug/L		11/14/22 07:54	11/14/22 22:06	1
Phenol	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
Pyrene	ND		0.50	0.10	ug/L		11/14/22 07:54	11/14/22 22:06	1
Pyridine	ND		5.0	2.0	ug/L		11/14/22 07:54	11/14/22 22:06	1
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1
2,4,6-Trichlorophenol	ND		2.0	0.50	ug/L		11/14/22 07:54	11/14/22 22:06	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-317127/1-A
Matrix: Water
Analysis Batch: 317400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317127

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		10 - 150	11/14/22 07:54	11/14/22 22:06	1
2-Fluorobiphenyl (Surr)	83		44 - 120	11/14/22 07:54	11/14/22 22:06	1
2-Fluorophenol (Surr)	52		10 - 120	11/14/22 07:54	11/14/22 22:06	1
Nitrobenzene-d5 (Surr)	83		25 - 125	11/14/22 07:54	11/14/22 22:06	1
p-Terphenyl-d14 (Surr)	96		37 - 120	11/14/22 07:54	11/14/22 22:06	1
Phenol-d5 (Surr)	36		10 - 120	11/14/22 07:54	11/14/22 22:06	1

Lab Sample ID: LCS 410-317127/2-A
Matrix: Water
Analysis Batch: 317400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	50.0	32.3		ug/L		65	59 - 120
Acenaphthylene	50.0	33.4		ug/L		67	67 - 120
Butyl benzyl phthalate	50.0	22.5		ug/L		45	25 - 132
4-Chloro-3-methylphenol	50.0	45.2		ug/L		90	63 - 128
2-Chlorophenol	50.0	30.2		ug/L		60	57 - 120
1,4-Dichlorobenzene	50.0	11.6	*-	ug/L		23	40 - 120
Dimethyl phthalate	50.0	18.7		ug/L		37	10 - 135
2,4-Dinitrotoluene	50.0	39.4		ug/L		79	71 - 124
Fluorene	50.0	35.2		ug/L		70	66 - 120
Naphthalene	50.0	23.6	*-	ug/L		47	55 - 120
4-Nitrophenol	100	68.5		ug/L		69	24 - 120
N-Nitrosodi-n-propylamine	50.0	27.2	*-	ug/L		54	63 - 120
Pentachlorophenol	100	86.4		ug/L		86	56 - 135
Phenol	50.0	20.5		ug/L		41	22 - 120
Pyrene	50.0	37.6		ug/L		75	73 - 120
1,2,4-Trichlorobenzene	50.0	20.4	*-	ug/L		41	44 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	85		10 - 150
2-Fluorobiphenyl (Surr)	49		44 - 120
2-Fluorophenol (Surr)	33		10 - 120
Nitrobenzene-d5 (Surr)	43		25 - 125
p-Terphenyl-d14 (Surr)	61		37 - 120
Phenol-d5 (Surr)	32		10 - 120

Lab Sample ID: LCSD 410-317127/3-A
Matrix: Water
Analysis Batch: 317400

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317127

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	50.0	47.4	*1	ug/L		95	59 - 120	38	30
Acenaphthylene	50.0	48.5	*1	ug/L		97	67 - 120	37	30
Butyl benzyl phthalate	50.0	40.8	*1	ug/L		82	25 - 132	58	30
4-Chloro-3-methylphenol	50.0	51.3		ug/L		103	63 - 128	13	30
2-Chlorophenol	50.0	47.1	*1	ug/L		94	57 - 120	44	30
1,4-Dichlorobenzene	50.0	35.9	*1	ug/L		72	40 - 120	102	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-317127/3-A
Matrix: Water
Analysis Batch: 317400

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317127

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethyl phthalate			50.0	37.0	*1	ug/L		74	10 - 135	66	30
2,4-Dinitrotoluene			50.0	54.8	*1	ug/L		110	71 - 124	33	30
Fluorene			50.0	49.7	*1	ug/L		99	66 - 120	34	30
Naphthalene			50.0	43.0	*1	ug/L		86	55 - 120	58	30
4-Nitrophenol			100	77.8		ug/L		78	24 - 120	13	30
N-Nitrosodi-n-propylamine			50.0	47.8	*1	ug/L		96	63 - 120	55	30
Pentachlorophenol			100	107		ug/L		107	56 - 135	21	30
Phenol			50.0	28.9	*1	ug/L		58	22 - 120	34	30
Pyrene			50.0	52.7	*1	ug/L		105	73 - 120	33	30
1,2,4-Trichlorobenzene			50.0	38.5	*1	ug/L		77	44 - 120	61	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*94*		*10 - 150*
2-Fluorobiphenyl (Surr)	*73*		*44 - 120*
2-Fluorophenol (Surr)	*59*		*10 - 120*
Nitrobenzene-d5 (Surr)	*80*		*25 - 125*
p-Terphenyl-d14 (Surr)	*99*		*37 - 120*
Phenol-d5 (Surr)	*44*		*10 - 120*

Lab Sample ID: MB 410-317131/1-A
Matrix: Water
Analysis Batch: 317358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
Acenaphthylene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
Aniline	ND		5.0	1.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
Anthracene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
Benzidine	ND		60	20	ug/L		11/14/22 07:55	11/14/22 16:00	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
Benzo[b]fluoranthene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
Benzo[k]fluoranthene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
Benzo[g,h,i]perylene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
Benzo[a]pyrene	ND		0.50	0.11	ug/L		11/14/22 07:55	11/14/22 16:00	1
Benzoic acid	ND		25	12	ug/L		11/14/22 07:55	11/14/22 16:00	1
Benzyl alcohol	ND		10	4.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
Bis(2-chloroethoxy)methane	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Bis(2-chloroethyl)ether	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
bis (2-Chloroisopropyl) ether	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
4-Bromophenyl phenyl ether	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Butyl benzyl phthalate	ND		5.0	2.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
4-Chloroaniline	ND		10	4.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
4-Chloro-3-methylphenol	ND		5.0	1.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
2-Chloronaphthalene	ND		1.0	0.40	ug/L		11/14/22 07:55	11/14/22 16:00	1
2-Chlorophenol	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
4-Chlorophenyl phenyl ether	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Chrysene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-317131/1-A
Matrix: Water
Analysis Batch: 317358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
Dibenzofuran	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Di-n-butyl phthalate	ND		5.0	2.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
1,2-Dichlorobenzene	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
1,4-Dichlorobenzene	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
3,3'-Dichlorobenzidine	ND		10	4.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
2,4-Dichlorophenol	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
2,6-Dichlorophenol	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Diethyl phthalate	ND		5.0	2.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
Dimethyl phthalate	ND		5.0	2.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
4,6-Dinitro-2-methylphenol	ND		21	8.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
2,4-Dinitrophenol	ND		30	14	ug/L		11/14/22 07:55	11/14/22 16:00	1
2,4-Dinitrotoluene	ND		5.0	1.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
2,6-Dinitrotoluene	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Di-n-octyl phthalate	ND		11	5.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
Fluoranthene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
Fluorene	ND		0.50	0.12	ug/L		11/14/22 07:55	11/14/22 16:00	1
Hexachlorobenzene	ND		0.50	0.11	ug/L		11/14/22 07:55	11/14/22 16:00	1
Hexachloro-1,3-butadiene	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Hexachlorocyclopentadiene	ND		11	5.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
Hexachloroethane	ND		5.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		11/14/22 07:55	11/14/22 16:00	1
Isophorone	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
2-Methylnaphthalene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
1-Methylnaphthalene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
2-Methylphenol	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Naphthalene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
2-Nitroaniline	ND		5.0	1.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
3-Nitroaniline	ND		5.0	2.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
4-Nitroaniline	ND		3.0	0.90	ug/L		11/14/22 07:55	11/14/22 16:00	1
Nitrobenzene	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
2-Nitrophenol	ND		5.0	1.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
4-Nitrophenol	ND		30	10	ug/L		11/14/22 07:55	11/14/22 16:00	1
N-Nitrosodimethylamine	ND		5.0	2.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
N-Nitrosodiphenylamine	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
N-Nitrosodi-n-propylamine	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Pentachlorophenol	ND		5.0	1.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
Phenanthrene	ND		0.50	0.11	ug/L		11/14/22 07:55	11/14/22 16:00	1
Phenol	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
Pyrene	ND		0.50	0.10	ug/L		11/14/22 07:55	11/14/22 16:00	1
Pyridine	ND		5.0	2.0	ug/L		11/14/22 07:55	11/14/22 16:00	1
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1
2,4,6-Trichlorophenol	ND		2.0	0.50	ug/L		11/14/22 07:55	11/14/22 16:00	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-317131/1-A
Matrix: Water
Analysis Batch: 317358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317131

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*102*		*10 - 150*	*11/14/22 07:55*	*11/14/22 16:00*	*1*
2-Fluorobiphenyl (Surr)	*84*		*44 - 120*	*11/14/22 07:55*	*11/14/22 16:00*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 120*	*11/14/22 07:55*	*11/14/22 16:00*	*1*
Nitrobenzene-d5 (Surr)	*83*		*25 - 125*	*11/14/22 07:55*	*11/14/22 16:00*	*1*
p-Terphenyl-d14 (Surr)	*97*		*37 - 120*	*11/14/22 07:55*	*11/14/22 16:00*	*1*
Phenol-d5 (Surr)	*37*		*10 - 120*	*11/14/22 07:55*	*11/14/22 16:00*	*1*

Lab Sample ID: LCS 410-317131/2-A
Matrix: Water
Analysis Batch: 317358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	50.0	48.0		ug/L		96	59 - 120
Acenaphthylene	50.0	48.1		ug/L		96	67 - 120
Butyl benzyl phthalate	50.0	41.9		ug/L		84	25 - 132
4-Chloro-3-methylphenol	50.0	50.3		ug/L		101	63 - 128
2-Chlorophenol	50.0	46.5		ug/L		93	57 - 120
1,4-Dichlorobenzene	50.0	39.4		ug/L		79	40 - 120
Dimethyl phthalate	50.0	33.3		ug/L		67	10 - 135
2,4-Dinitrotoluene	50.0	55.6		ug/L		111	71 - 124
Fluorene	50.0	51.2		ug/L		102	66 - 120
Naphthalene	50.0	44.0		ug/L		88	55 - 120
4-Nitrophenol	100	79.0		ug/L		79	24 - 120
N-Nitrosodi-n-propylamine	50.0	48.2		ug/L		96	63 - 120
Pentachlorophenol	100	111		ug/L		111	56 - 135
Phenol	50.0	28.0		ug/L		56	22 - 120
Pyrene	50.0	50.9		ug/L		102	73 - 120
1,2,4-Trichlorobenzene	50.0	41.8		ug/L		84	44 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*98*		*10 - 150*
2-Fluorobiphenyl (Surr)	*80*		*44 - 120*
2-Fluorophenol (Surr)	*59*		*10 - 120*
Nitrobenzene-d5 (Surr)	*79*		*25 - 125*
p-Terphenyl-d14 (Surr)	*95*		*37 - 120*
Phenol-d5 (Surr)	*44*		*10 - 120*

Method: 8011 - EDB

Lab Sample ID: MB 590-38981/1-A
Matrix: Water
Analysis Batch: 38970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		11/08/22 13:31	11/08/22 15:02	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0032	ug/L		11/08/22 13:31	11/08/22 15:02	1
1,2,3-Trichloropropane	ND		0.010	0.0050	ug/L		11/08/22 13:31	11/08/22 15:02	1

Method: 8011 - EDB (Continued)

Lab Sample ID: LCS 590-38981/2-A
Matrix: Water
Analysis Batch: 38970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.125	0.110		ug/L		88	60 - 140
1,2-Dibromo-3-Chloropropane	0.125	0.119		ug/L		95	60 - 140
1,2,3-Trichloropropane	0.125	0.121		ug/L		97	60 - 140

Lab Sample ID: LCSD 590-38981/3-A
Matrix: Water
Analysis Batch: 38970

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38981

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.125	0.108		ug/L		86	60 - 140	2	20
1,2-Dibromo-3-Chloropropane	0.125	0.125		ug/L		100	60 - 140	5	20
1,2,3-Trichloropropane	0.125	0.129		ug/L		104	60 - 140	7	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 590-39136/1
Matrix: Water
Analysis Batch: 39136

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		101	98.6 - 101.4

Lab Chronicle

Client: HDR Inc
Project/Site: Simplot Warden

Job ID: 590-19192-1

Client Sample ID: TOTE-Water-11072022

Lab Sample ID: 590-19192-1

Date Collected: 11/07/22 14:10

Matrix: Water

Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	39122	11/17/22 14:08	JSP	EET SPK
Total/NA	Prep	3510C			267.9 mL	1 mL	317131	11/14/22 07:55	YDF5	ELLE
Total/NA	Analysis	8270E		1	1 mL	1 mL	317358	11/15/22 00:04	AH7C	ELLE
Total/NA	Prep	8011			80 mL	2 mL	38981	11/08/22 13:31	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 15:51	NMI	EET SPK
Total/NA	Analysis	SM 4500 H+ B		1			39136	11/18/22 12:10	AMB	EET SPK

Client Sample ID: IDW-Drum-1-11072022

Lab Sample ID: 590-19192-2

Date Collected: 11/07/22 13:10

Matrix: Water

Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	39122	11/17/22 14:30	JSP	EET SPK
Total/NA	Prep	3510C			265.2 mL	1 mL	317131	11/14/22 07:55	YDF5	ELLE
Total/NA	Analysis	8270E		1	1 mL	1 mL	317358	11/15/22 00:25	AH7C	ELLE
Total/NA	Prep	8011			80 mL	2 mL	38981	11/08/22 13:31	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 16:07	NMI	EET SPK
Total/NA	Analysis	SM 4500 H+ B		1			39136	11/18/22 12:10	AMB	EET SPK

Client Sample ID: IDW-Drum-2-11072022

Lab Sample ID: 590-19192-3

Date Collected: 11/07/22 13:20

Matrix: Water

Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	39122	11/17/22 14:52	JSP	EET SPK
Total/NA	Prep	3510C			246.7 mL	1 mL	317131	11/14/22 07:55	YDF5	ELLE
Total/NA	Analysis	8270E		1	1 mL	1 mL	317358	11/15/22 00:46	AH7C	ELLE
Total/NA	Prep	8011			80 mL	2 mL	38981	11/08/22 13:31	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 16:23	NMI	EET SPK
Total/NA	Analysis	SM 4500 H+ B		1			39136	11/18/22 12:10	AMB	EET SPK

Client Sample ID: IDW-Drum-3-11072022

Lab Sample ID: 590-19192-4

Date Collected: 11/07/22 13:35

Matrix: Water

Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	39122	11/17/22 15:13	JSP	EET SPK
Total/NA	Prep	3510C			259.3 mL	1 mL	317131	11/14/22 07:55	YDF5	ELLE
Total/NA	Analysis	8270E		1	1 mL	1 mL	317358	11/15/22 01:07	AH7C	ELLE
Total/NA	Prep	8011			80 mL	2 mL	38981	11/08/22 13:31	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 16:40	NMI	EET SPK
Total/NA	Analysis	SM 4500 H+ B		1			39136	11/18/22 12:10	AMB	EET SPK

Client: HDR Inc
Job ID: 590-19192-1
Project/Site: Simplot Warden

Client Sample ID: IDW-Drum-4-11072022
Lab Sample ID: 590-19192-5
Date Collected: 11/07/22 13:45
Matrix: Water
Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	39122	11/17/22 15:35	JSP	EET SPK
Total/NA	Prep	3510C			262.5 mL	1 mL	317127	11/14/22 07:54	YDF5	ELLE
Total/NA	Analysis	8270E		1	1 mL	1 mL	317400	11/15/22 00:06	W6XI	ELLE
Total/NA	Prep	8011			80 mL	2 mL	38981	11/08/22 13:31	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 16:56	NMI	EET SPK
Total/NA	Analysis	SM 4500 H+ B		1			39136	11/18/22 12:10	AMB	EET SPK

Client Sample ID: IDW-Drum-5-11072022
Lab Sample ID: 590-19192-6
Date Collected: 11/07/22 13:50
Matrix: Water
Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	39122	11/17/22 15:57	JSP	EET SPK
Total/NA	Prep	3510C			265 mL	1 mL	317127	11/14/22 07:54	YDF5	ELLE
Total/NA	Analysis	8270E		1	1 mL	1 mL	317400	11/15/22 00:46	W6XI	ELLE
Total/NA	Prep	8011			80 mL	2 mL	38981	11/08/22 13:31	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 17:12	NMI	EET SPK
Total/NA	Analysis	SM 4500 H+ B		1			39136	11/18/22 12:10	AMB	EET SPK

Client Sample ID: IDW-Drum-6-11072022
Lab Sample ID: 590-19192-7
Date Collected: 11/07/22 13:55
Matrix: Water
Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	39122	11/17/22 16:40	JSP	EET SPK
Total/NA	Prep	3510C			263.4 mL	1 mL	317127	11/14/22 07:54	YDF5	ELLE
Total/NA	Analysis	8270E		1	1 mL	1 mL	317400	11/15/22 01:06	W6XI	ELLE
Total/NA	Prep	8011			80 mL	2 mL	38981	11/08/22 13:31	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 17:28	NMI	EET SPK
Total/NA	Analysis	SM 4500 H+ B		1			39136	11/18/22 12:10	AMB	EET SPK

Client Sample ID: Trip Blank
Lab Sample ID: 590-19192-8
Date Collected: 11/07/22 00:00
Matrix: Water
Date Received: 11/07/22 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	39122	11/17/22 17:02	JSP	EET SPK
Total/NA	Prep	8011			80 mL	2 mL	38981	11/08/22 13:31	M1V	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	38970	11/08/22 18:01	NMI	EET SPK

Laboratory References:

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: HDR Inc
Job ID: 590-19192-1
Project/Site: Simplot Warden

Laboratory: Eurofins Spokane

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	1,2,3-Trichloropropane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-22
A2LA	ISO/IEC 17025	0001.01	11-30-22
Alaska	State	PA00009	07-01-23
Alaska (UST)	State	17-027	02-28-23
Arizona	State	AZ0780	03-12-23
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-22
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-23
Delaware (DW)	State	N/A	01-31-23
Florida	NELAP	E87997	06-30-23
Georgia (DW)	State	C048	01-31-23
Hawaii	State	N/A	11-27-22
Illinois	NELAP	200027	01-31-23
Iowa	State	361	11-21-22
Kansas	NELAP	E-10151	10-31-22 *
Kentucky (DW)	State	KY90088	12-31-22
Kentucky (UST)	State	1.01	11-30-22
Kentucky (WW)	State	KY90088	01-01-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-23
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-23
Minnesota	NELAP	042-999-487	12-31-22
Mississippi	State	022	01-31-23
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-23
Montana (UST)	State	<cert No.>	02-01-23
Nebraska	State	NE-OS-32-17	01-31-23
New Hampshire	NELAP	2730	01-10-23
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-22
North Dakota	State	R-205	01-31-23
Oklahoma	NELAP	R-205	11-22-22
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: HDR Inc
Job ID: 590-19192-1
Project/Site: Simplot Warden

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-23
Rhode Island	State	LAO00338	12-30-22
South Carolina	State	89002	01-31-23
Tennessee	State	02838	01-31-23
Texas	NELAP	T104704194-22-43	08-31-23
USDA	US Federal Programs	P330-19-00197	08-09-23
Vermont	State	VT - 36037	11-16-22
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-22
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-23
Wyoming (UST)	A2LA	1.01	11-30-22

Method Summary

Client: HDR Inc
Job ID: 590-19192-1
Project/Site: Simplot Warden

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB	EPA	EET SPK
SM 4500 H+ B	pH	SM	EET SPK
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	EET SPK
8011	Microextraction	SW846	EET SPK

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jered Newcomb	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No:
Client Contact: Jered Newcomb	Phone: 509-899-4371	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: HDR Inc	PWSID:			Job #:
Address: 835 N Post St. Ste. 101	Due Date Requested:			
City: Spokane	TAT Requested (days): Standard			
State, Zip: WA, 99202	Compliance Project: Δ Yes Δ No			
Phone: 509-899-4371	PO #: Purchase Order Requested			
Email: jered.newcomb@hdrinc.com	WO #:			
Project Name: Simplot Warden	Project #: 10331653			
Site: Warden WA	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA Method 8011 *	EPA Method 8260B VOCs **	EPA Method 8270 Semi-VOCs ***	pH ^^^	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
~~KOT-Water-11072022~~	~~11/ /2022~~		G	W	N		X					* ~~Report EDB only. Full list may need~~ to be reported in future.
TOTE-Water 11072022	11/7/2022	1416	G	W	N	N	X	X	X	X	6	
IDW Drum-1-11072022		1310			N	N	X	X	X	X	6	** ~~Place sample analytes on hold.~~ Please advise HDR on hold time expiration dates
IDW-Drum-2-11072022		1320			N	N	X	X	X	X	6	
IDW-Drum-3-11072022		1325			N	N	X	X	X	X	6	*Full list
IDW-Drum-4-11072022		1345			N	N	X	X	X	X	6	
IDW-Drum-5-11072022		1350			N	N	X	X	X	X	6	
IDW-Drum-6-11072022		1355										
Trip Blanks	-	-	-	W	N	N	X	X			6	

590-19192 Chain of Custody

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements.

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/7/22 1625	HDR		11/7/22 1625	EET080
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 5.1

Eurofins Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-7319.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Washington		Job #: 590-19192-1
Address: 2425 New Holland Pike,	Due Date Requested: 11/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Simplot Warden	Project #: 59002373			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270E/3510C_LVI (MOD) Routine SVOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TOTE-Water-11072022 (590-19192-1)	11/7/22	14:10 Pacific		Water			X	1	
IDW-Drum-1-11072022 (590-19192-2)	11/7/22	13:10 Pacific		Water			X	1	
IDW-Drum-2-11072022 (590-19192-3)	11/7/22	13:20 Pacific		Water			X	1	
IDW-Drum-3-11072022 (590-19192-4)	11/7/22	13:35 Pacific		Water			X	1	
IDW-Drum-4-11072022 (590-19192-5)	11/7/22	13:45 Pacific		Water			X	1	
IDW-Drum-5-11072022 (590-19192-6)	11/7/22	13:50 Pacific		Water			X	1	
IDW-Drum-6-11072022 (590-19192-7)	11/7/22	13:55 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/8/22 1500	ET080			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/9/22 1030	Company ET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.1

MB

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19192-1

Login Number: 19192

List Source: Eurofins Spokane

List Number: 1

Creator: Fettig, Riley

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

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 590-19192-1

Login Number: 19192
List Number: 2
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 11/09/22 02:47 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	