

AFIN: 72-00144

PMT#: 0290-S1-R4

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By Haley Griffith at 1:32 pm, Jan 29, 2024

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Haley Griffith (adpce.ad)

From: Stacy Kennedy <Stacy.Kennedy@pacelabs.com>
Sent: Sunday, January 28, 2024 4:14 PM
To: gwreports
Subject: Lab Report Submittal for WM Eco-Vista (1 of 4)
Attachments: L1642293.pdf; L1632964.pdf; L1633566.pdf; L1633891.pdf; L1633864.pdf

Good afternoon,
(1 of 4)

Please accept the following lab reports for Eco-Vista Landfill: Monthly GW/LCS/LDS, 3Q23, and 4Q23

- L1632964
- L1633566
- L1633891
- L1633864
- L1642293
- L1642810
- L1652528
- L1653195
- L1662806
- L1663702
- L1664045
- L1674004
- L1674883
- L1686168
- L1686474

Thank you,

Stacy Kennedy
Project Manager I
12065 Lebanon Road | Mt. Juliet, TN 37122
(office)615.773.7453
Stacy.Kennedy@pacelabs.com | www.pacenational.com

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Eco-Vista (Tontitown)LF

Sample Delivery Group: L1642293
Samples Received: 08/03/2023
Project Number: 300
Description: Eco-Vista-GW-Feb, Mar, May, Jun, Aug, Sep, Nov, Dec
Site: AR03
Report To: Jodi Reynolds
88 Joyce Lane
Russellville, AR 72801

Entire Report Reviewed By:



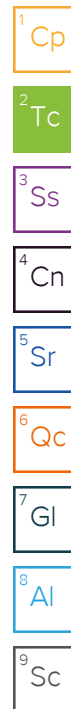
Stacy Kennedy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

LGW-6-DUP L1642293-01 GW

Collected by
Chris Fincher

Collected date/time
08/02/23 07:00

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 00:46	08/05/23 00:46	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 11:48	08/04/23 11:48	GEB	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

LGW-2 L1642293-02 GW

Collected by
Chris Fincher

Collected date/time
08/01/23 19:05

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 00:51	08/05/23 00:51	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 12:55	08/04/23 12:55	GEB	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

LGW-3R L1642293-03 GW

Collected by
Chris Fincher

Collected date/time
08/02/23 09:45

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 00:57	08/05/23 00:57	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 13:47	08/04/23 13:47	GEB	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

LGW-4 L1642293-04 GW

Collected by
Chris Fincher

Collected date/time
08/02/23 10:25

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 00:58	08/05/23 00:58	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 14:04	08/04/23 14:04	GEB	Mt. Juliet, TN

LGW-5 L1642293-05 GW

Collected by
Chris Fincher

Collected date/time
08/02/23 11:05

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:00	08/05/23 01:00	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 14:20	08/04/23 14:20	GEB	Mt. Juliet, TN

LGW-6 L1642293-06 GW

Collected by
Chris Fincher

Collected date/time
08/02/23 12:25

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:01	08/05/23 01:01	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 14:37	08/04/23 14:37	GEB	Mt. Juliet, TN

LGW-7 L1642293-07 GW

Collected by
Chris Fincher

Collected date/time
08/01/23 17:00

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:03	08/05/23 01:03	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 14:54	08/04/23 14:54	GEB	Mt. Juliet, TN

SAMPLE SUMMARY

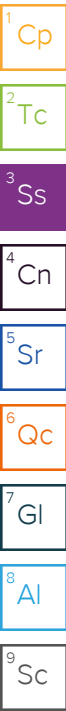
LGW-8R L1642293-08 GW

Collected by
Chris Fincher

Collected date/time
08/01/23 16:10

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:04	08/05/23 01:04	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 15:11	08/04/23 15:11	GEB	Mt. Juliet, TN



LGW-9 L1642293-09 GW

Collected by
Chris Fincher

Collected date/time
08/01/23 15:25

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:06	08/05/23 01:06	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 15:28	08/04/23 15:28	GEB	Mt. Juliet, TN

LGW-10 L1642293-10 GW

Collected by
Chris Fincher

Collected date/time
08/01/23 18:25

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:07	08/05/23 01:07	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 15:45	08/04/23 15:45	GEB	Mt. Juliet, TN

LGW-14R L1642293-11 GW

Collected by
Chris Fincher

Collected date/time
08/02/23 11:45

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:09	08/05/23 01:09	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 16:01	08/04/23 16:01	GEB	Mt. Juliet, TN

MW-7N L1642293-12 GW

Collected by
Chris Fincher

Collected date/time
08/01/23 17:50

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:10	08/05/23 01:10	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 16:18	08/04/23 16:18	GEB	Mt. Juliet, TN

MW-15 L1642293-13 GW

Collected by
Chris Fincher

Collected date/time
08/01/23 14:15

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:16	08/05/23 01:16	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 17:09	08/04/23 17:09	GEB	Mt. Juliet, TN

MW-16 L1642293-14 GW

Collected by
Chris Fincher

Collected date/time
08/01/23 13:30

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:18	08/05/23 01:18	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 17:26	08/04/23 17:26	GEB	Mt. Juliet, TN

SAMPLE SUMMARY

MW-17 L1642293-15 GW

Collected by: Chris Fincher
 Collected date/time: 08/02/23 14:15
 Received date/time: 08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:19	08/05/23 01:19	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 17:43	08/04/23 17:43	GEB	Mt. Juliet, TN

¹Cp

²Tc

³Ss

MW-19 L1642293-16 GW

Collected by: Chris Fincher
 Collected date/time: 08/01/23 19:40
 Received date/time: 08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:21	08/05/23 01:21	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 18:00	08/04/23 18:00	GEB	Mt. Juliet, TN

⁴Cn

⁵Sr

⁶Qc

FB L1642293-17 GW

Collected by: Chris Fincher
 Collected date/time: 08/01/23 13:20
 Received date/time: 08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2107784	1	08/05/23 01:22	08/05/23 01:22	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2107783	1	08/04/23 18:17	08/04/23 18:17	GEB	Mt. Juliet, TN

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

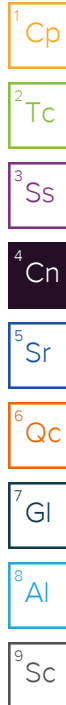
Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Stacy Kennedy
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.



Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5	su
Specific Conductance (on site)	774	umhos/cm
Temperature (on-site)	19.5	Deg. C
Turbidity (on-site)	5.1	NTU
Dissolved Oxygen (on-site)	0.4	mg/l
eH/ORP (On Site)	186.6	mV
Depth to water (DTW) (FROM TOC)	50.65	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 00:46	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	15.5		3.00	1	08/04/2023 11:48	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.92	su
Specific Conductance (on site)	610	umhos/cm
Temperature (on-site)	23.6	Deg. C
Turbidity (on-site)	5.9	NTU
Dissolved Oxygen (on-site)	6.6	mg/l
eH/ORP (On Site)	178.5	mV
Depth to water (DTW) (FROM TOC)	72.45	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 00:51	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	10.6		3.00	1	08/04/2023 12:55	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	3.44	su
Specific Conductance (on site)	107	umhos/cm
Temperature (on-site)	19.5	Deg. C
Turbidity (on-site)	10.2	NTU
Dissolved Oxygen (on-site)	5.9	mg/l
eH/ORP (On Site)	260.9	mV
Depth to water (DTW) (FROM TOC)	55.55	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 00:57	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	5.29		3.00	1	08/04/2023 13:47	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.39	su
Specific Conductance (on site)	776	umhos/cm
Temperature (on-site)	18.5	Deg. C
Turbidity (on-site)	7.8	NTU
Dissolved Oxygen (on-site)	2	mg/l
eH/ORP (On Site)	179.6	mV
Depth to water (DTW) (FROM TOC)	60.64	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 00:58	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	18.3		3.00	1	08/04/2023 14:04	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.6	su
Specific Conductance (on site)	851	umhos/cm
Temperature (on-site)	23	Deg. C
Turbidity (on-site)	4.5	NTU
Dissolved Oxygen (on-site)	1.6	mg/l
eH/ORP (On Site)	193.9	mV
Depth to water (DTW) (FROM TOC)	70.31	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:00	WG2107784

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	33.2		3.00	1	08/04/2023 14:20	WG2107783

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5	su
Specific Conductance (on site)	774	umhos/cm
Temperature (on-site)	19.5	Deg. C
Turbidity (on-site)	5.1	NTU
Dissolved Oxygen (on-site)	0.4	mg/l
eH/ORP (On Site)	186.6	mV
Depth to water (DTW) (FROM TOC)	50.65	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:01	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	15.7		3.00	1	08/04/2023 14:37	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.49	su
Specific Conductance (on site)	567	umhos/cm
Temperature (on-site)	20	Deg. C
Turbidity (on-site)	3.9	NTU
Dissolved Oxygen (on-site)	2.8	mg/l
eH/ORP (On Site)	184.7	mV
Depth to water (DTW) (FROM TOC)	43.4	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:03	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	15.3		3.00	1	08/04/2023 14:54	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.2	su
Specific Conductance (on site)	727	umhos/cm
Temperature (on-site)	18.9	Deg. C
Turbidity (on-site)	4.1	NTU
Dissolved Oxygen (on-site)	0.3	mg/l
eH/ORP (On Site)	187.6	mV
Depth to water (DTW) (FROM TOC)	10.95	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:04	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	18.9		3.00	1	08/04/2023 15:11	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	3.96	su
Specific Conductance (on site)	780	umhos/cm
Temperature (on-site)	19.1	Deg. C
Turbidity (on-site)	3.9	NTU
Dissolved Oxygen (on-site)	0.5	mg/l
eH/ORP (On Site)	201.9	mV
Depth to water (DTW) (FROM TOC)	54.48	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:06	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	36.0		3.00	1	08/04/2023 15:28	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	3.83	su
Specific Conductance (on site)	820	umhos/cm
Temperature (on-site)	18.6	Deg. C
Turbidity (on-site)	5.7	NTU
Dissolved Oxygen (on-site)	0.4	mg/l
eH/ORP (On Site)	196	mV
Depth to water (DTW) (FROM TOC)	59.54	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:07	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	22.1		3.00	1	08/04/2023 15:45	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.93	su
Specific Conductance (on site)	648	umhos/cm
Temperature (on-site)	21.6	Deg. C
Turbidity (on-site)	4.4	NTU
Dissolved Oxygen (on-site)	4.9	mg/l
eH/ORP (On Site)	165.5	mV
Depth to water (DTW) (FROM TOC)	56.3	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:09	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	5.39		3.00	1	08/04/2023 16:01	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.41	su
Specific Conductance (on site)	577	umhos/cm
Temperature (on-site)	19.4	Deg. C
Turbidity (on-site)	7.6	NTU
Dissolved Oxygen (on-site)	5	mg/l
eH/ORP (On Site)	186	mV
Depth to water (DTW) (FROM TOC)	87.5	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:10	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	31.5		3.00	1	08/04/2023 16:18	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.04	su
Specific Conductance (on site)	576	umhos/cm
Temperature (on-site)	18.7	Deg. C
Turbidity (on-site)	6.9	NTU
Dissolved Oxygen (on-site)	5.6	mg/l
eH/ORP (On Site)	196.7	mV
Depth to water (DTW) (FROM TOC)	58.63	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:16	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	37.6		3.00	1	08/04/2023 17:09	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.87	su
Specific Conductance (on site)	374	umhos/cm
Temperature (on-site)	20.1	Deg. C
Turbidity (on-site)	4.2	NTU
Dissolved Oxygen (on-site)	6.8	mg/l
eH/ORP (On Site)	177.4	mV
Depth to water (DTW) (FROM TOC)	73.52	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:18	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	4.21		3.00	1	08/04/2023 17:26	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.07	su
Specific Conductance (on site)	336	umhos/cm
Temperature (on-site)	21.4	Deg. C
Turbidity (on-site)	11.7	NTU
Dissolved Oxygen (on-site)	7.5	mg/l
eH/ORP (On Site)	165.2	mV
Depth to water (DTW) (FROM TOC)	60.31	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:19	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	7.10		3.00	1	08/04/2023 17:43	WG2107783

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.5	su
Specific Conductance (on site)	310	umhos/cm
Temperature (on-site)	19.9	Deg. C
Turbidity (on-site)	4.5	NTU
Dissolved Oxygen (on-site)	8	mg/l
eH/ORP (On Site)	152.4	mV
Depth to water (DTW) (FROM TOC)	68.1	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:21	WG2107784

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	7.84		3.00	1	08/04/2023 18:00	WG2107783

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	ND		0.100	1	08/05/2023 01:22	WG2107784

¹ Cp

² Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	ND		3.00	1	08/04/2023 18:17	WG2107783

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3957165-1 08/05/23 00:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1642044-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1642044-01 08/05/23 00:43 • (DUP) R3957165-3 08/05/23 00:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	1.94	1.93	1	0.724		10

L1642293-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1642293-17 08/05/23 01:22 • (DUP) R3957165-6 08/05/23 01:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R3957165-2 08/05/23 00:39

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.33	97.8	90.0-110	

L1642293-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1642293-01 08/05/23 00:46 • (MS) R3957165-4 08/05/23 00:48 • (MSD) R3957165-5 08/05/23 00:49

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	ND	4.88	4.88	97.6	97.6	1	90.0-110			0.000	10

L1642293-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L1642293-17 08/05/23 01:22 • (MS) R3957165-7 08/05/23 01:25

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	ND	4.91	98.3	1	90.0-110	

Method Blank (MB)

(MB) R3958712-1 08/04/23 10:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	ND		0.0519	1.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1642293-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1642293-01 08/04/23 11:48 • (DUP) R3958712-3 08/04/23 12:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	15.5	15.5	1	0.288		15

L1642293-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1642293-17 08/04/23 18:17 • (DUP) R3958712-6 08/04/23 18:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	ND	ND	1	10.7		15

Laboratory Control Sample (LCS)

(LCS) R3958712-2 08/04/23 10:35

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	39.1	97.8	80.0-120	

L1642293-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1642293-01 08/04/23 11:48 • (MS) R3958712-4 08/04/23 12:22 • (MSD) R3958712-5 08/04/23 12:38

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	50.0	15.5	65.2	65.5	99.4	100	1	80.0-120			0.465	15

L1642293-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L1642293-17 08/04/23 18:17 • (MS) R3958712-7 08/04/23 18:51

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	50.0	ND	49.7	98.0	1	80.0-120	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.


* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address:
Eco-Vista (Tontitown)LF
 88 Joyce Lane
 Russellville, AR 72801

Billing Information:
 jreyno10@wm.com
 P.O. Box 4745
 WM A/P DEPARTMENT
 Portland, OR 97208-4745

Analysis / Container / Preservative
 Pres Chk

Chain of Custody Page 1 of 2

 PEOPLE ADVANCING SCIENCE
 MT JULIET, TN

Report to:
Jodi Reynolds

Email To:
 ciara.children.beavers@jettenviro.com; jeffholm

Project Description:
 Eco-Vista-GW-Feb, Mar, May, Jun, Aug, Sep, Nov, De

City/State Collected:

Please Circle:
 PT MT CT ET

Phone: **501-993-8966**

Client Project #
300

Lab Project #
WMECOVISAR-00005

Collected by (print):
Chris Fincher

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]
 Immediately Packed on Ice N Y X

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
 Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

LDS-9	Grab	GW				2	X	X											
LDS-10		GW				2	X	X											
LDS-11		GW				2	X	X											
LDS-12	LGW-6-Dup	GW	77.77	8.2.23	0700	2	X	X											-01
LGW-2		GW	74.10	8.1.23	1905	2	X	X											-02
LGW-3R		GW	56.00	8.2.23	0945	2	X	X											-03
LGW-4		GW	60.85	8.2.23	1025	2	X	X											-04
LGW-5		GW	71.35	8.2.23	1105	2	X	X											-05
LGW-6		GW	50.65	8.2.23	1225	2	X	X											-06
LGW-7		GW	43.45	8.1.23	1700	2	X	X											-07

CHLORIDE 125mIHDPPE-NoPres

NH3 250mIHDPPE-H2SO4

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # L1642293
F042

Acctnum: **WMECOVISAR**
 Template: **T161046**
 Prelogin: **P1011993**
 PM: **616 - Stacy Kennedy**
 PB: 7/17/23 CAM
 Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: Pace project service: Check for multiple coolers upon receipt.

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist
 COC Seal Present/Intact: NP N
 COC Signed/Accurate: N
 Bottles arrive intact: N
 Correct bottles used: N
 Sufficient volume sent: N
If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Samples returned via: UPS FedEx Courier
 Tracking # 6334 2260 1211

Relinquished by: (Signature)
[Signature]

Date: 8.2.23
 Time: 1600

Received by: (Signature)
 Trip Blank Received: Yes/No
 HCL/MeOH
 TBR

Temp: 4.9°C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Received by: (Signature)

Temp: 4.9°C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Received for lab by: (Signature)
[Signature]

Date: 8/3/23 Time: 0:00

Hold: Condition: NCF / OK

Company Name/Address:
Eco-Vista (Tontitown)LF
 88 Joyce Lane
 Russellville, AR 72801

Billing Information:
 jreyno10@wm.com
 P.O. Box 4745
 WM A/P DEPARTMENT
 Portland, OR 97208-4745

Report to:
Jodi Reynolds

Email To:
 ciara.children.beavers@jettenviro.com; jeffholm

Project Description:
 Eco-Vista-GW-Feb, Mar, May, Jun, Aug, Sep, Nov, De

City/State Collected:
 Please Circle:
 PT MT CT ET

Phone: **501-993-8966**

Client Project #
300

Lab Project #
WMECOVISAR-00005

Collected by (print):
Chris Finck

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]
 Immediately Packed on Ice N Y X

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day


Quote #
 Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative		
LGW-8R	Grab	GW	11.10	8.1.23	1610	2	X	X	
LGW-9	↓	GW	55.55	8.1.23	1525	2	X	X	
LGW-10		GW	61.65	8.1.23	1825	2	X	X	
LGW-14R		GW	58.85	8.2.23	1145	2	X	X	
MW-7N		GW	87.75	8.1.23	1750	2	X	X	
MW-15		GW	58.72	8.1.23	1415	2	X	X	
MW-16		GW	76.75	8.1.23	1330	2	X	X	
MW-17		GW	60.35	8.2.23	1415	2	X	X	
MW-19		GW	68.60	8.1.23	1940	2	X	X	
FB		✓	GW	N/A	8.1.23	1320	2	X	X

CHLORIDE 125mIHDPPE-NoPres

NH3 250mIHDPPE-H2SO4

Chain of Custody Page 2 of 2



MT JULIET, TN
 12065 Lebanon Rd. Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # *U642293*

Table #

Acctnum: **WMECOVISAR**
 Template: **T161046**
 Prelogin: **P1011993**
 PM: **616 - Stacy Kennedy**
 PB: *7/17/23 CAM*

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

08
09
10
11
12
13
14
15
16
17

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: Pace project service: Check for multiple coolers upon receipt.

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact:	NP	<input checked="" type="checkbox"/>	N
COC Signed/Accurate:		<input checked="" type="checkbox"/>	N
Bottles arrive intact:		<input checked="" type="checkbox"/>	N
Correct bottles used:		<input checked="" type="checkbox"/>	N
Sufficient volume sent:		<input checked="" type="checkbox"/>	N
If Applicable			
VOA Zero Headspace:		<input type="checkbox"/>	N
Preservation Correct/Checked:		<input type="checkbox"/>	N
RAD Screen <0.5 mR/hr:		<input checked="" type="checkbox"/>	N

Relinquished by: (Signature) <i>[Signature]</i>	Date: <i>8.2.23</i>	Time: <i>1600</i>	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <i>69.18°C</i> <i>49.5-24.9</i>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: <i>8/10/23</i> Time: <i>0900</i>

If preservation required by Login: Date/Time

Condition:
 NCF / **OK**

July 28, 2023

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Eco-Vista (Tontitown)LF

Sample Delivery Group: L1632964
Samples Received: 07/07/2023
Project Number: 200
Description: Eco-Vista - GW-July
Site: AR03
Report To: Jodi Reynolds
88 Joyce Lane
Russellville, AR 72801

Entire Report Reviewed By:



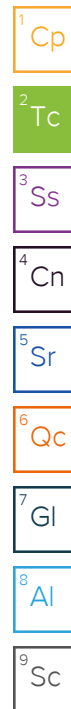
Stacy Kennedy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

TRIP BLANK L1632964-01 GW

Collected by: Chris F
 Collected date/time: 07/06/23 00:00
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091714	1	07/09/23 19:36	07/09/23 19:36	ACG	Mt. Juliet, TN

FB L1632964-02 GW

Collected by: Chris F
 Collected date/time: 07/05/23 08:30
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2091908	1	07/10/23 11:15	07/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092169	1	07/11/23 11:17	07/11/23 11:17	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091446	1	07/08/23 23:36	07/08/23 23:36	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 11:49	07/10/23 11:49	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095717	1	07/17/23 18:48	07/17/23 18:48	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2096740	1	07/19/23 09:40	07/19/23 09:40	SJF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:27	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 21:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091714	1	07/09/23 20:20	07/09/23 20:20	ACG	Mt. Juliet, TN

NE-1 L1632964-03 GW

Collected by: Chris F
 Collected date/time: 07/05/23 09:40
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2091908	1	07/10/23 11:15	07/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092169	1	07/11/23 11:19	07/11/23 11:19	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091446	1	07/08/23 23:38	07/08/23 23:38	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 11:52	07/10/23 11:52	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095717	1	07/17/23 19:05	07/17/23 19:05	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2096740	1	07/19/23 09:52	07/19/23 09:52	SJF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:16	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:03	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091714	1	07/09/23 23:55	07/09/23 23:55	ACG	Mt. Juliet, TN

NE-2 L1632964-04 GW

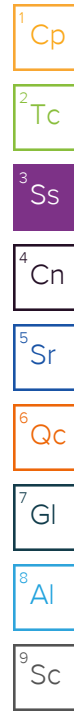
Collected by: Chris F
 Collected date/time: 07/05/23 11:30
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092031	1	07/10/23 13:34	07/10/23 16:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092169	1	07/11/23 11:23	07/11/23 11:23	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091446	1	07/08/23 23:39	07/08/23 23:39	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	5	07/10/23 11:55	07/10/23 11:55	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 12:50	07/17/23 12:50	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 16:25	07/19/23 16:25	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:29	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:06	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091714	1	07/10/23 00:16	07/10/23 00:16	ACG	Mt. Juliet, TN

NE-4 L1632964-05 GW

Collected by: Chris F
 Collected date/time: 07/05/23 08:35
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092031	1	07/10/23 13:34	07/10/23 16:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092169	1	07/11/23 11:27	07/11/23 11:27	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091446	1	07/08/23 23:41	07/08/23 23:41	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	10	07/10/23 11:56	07/10/23 11:56	BMD	Mt. Juliet, TN



SAMPLE SUMMARY

NE-4 L1632964-05 GW

Collected by: Chris F
 Collected date/time: 07/05/23 08:35
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 13:30	07/17/23 13:30	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 17:23	07/19/23 17:23	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:32	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:10	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091714	1	07/10/23 00:38	07/10/23 00:38	ACG	Mt. Juliet, TN



NE-5 L1632964-06 GW

Collected by: Chris F
 Collected date/time: 07/06/23 09:20
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092845	1	07/11/23 15:53	07/11/23 23:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092169	1	07/11/23 11:39	07/11/23 11:39	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 11:49	07/09/23 11:49	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:01	07/10/23 12:01	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 13:40	07/17/23 13:40	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 17:48	07/19/23 17:48	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:35	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091714	1	07/10/23 00:59	07/10/23 00:59	ACG	Mt. Juliet, TN



NE-5E L1632964-07 GW

Collected by: Chris F
 Collected date/time: 07/06/23 10:20
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092790	1	07/11/23 15:19	07/11/23 22:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092169	1	07/11/23 11:43	07/11/23 11:43	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 11:53	07/09/23 11:53	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:03	07/10/23 12:03	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 13:50	07/17/23 13:50	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 18:01	07/19/23 18:01	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:43	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091714	1	07/10/23 01:21	07/10/23 01:21	ACG	Mt. Juliet, TN

NE-5W L1632964-08 GW

Collected by: Chris F
 Collected date/time: 07/06/23 08:35
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092790	1	07/11/23 15:19	07/11/23 22:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 14:05	07/11/23 14:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 11:56	07/09/23 11:56	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:04	07/10/23 12:04	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 14:21	07/17/23 14:21	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 18:14	07/19/23 18:14	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:45	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:28	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091714	1	07/10/23 01:42	07/10/23 01:42	ACG	Mt. Juliet, TN

SAMPLE SUMMARY

NE-6 L1632964-09 GW

Collected by: Chris F
 Collected date/time: 07/06/23 12:00
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092845	1	07/11/23 15:53	07/11/23 23:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 14:14	07/11/23 14:14	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 11:58	07/09/23 11:58	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:05	07/10/23 12:05	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 14:31	07/17/23 14:31	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 18:27	07/19/23 18:27	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:48	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091714	1	07/10/23 02:04	07/10/23 02:04	ACG	Mt. Juliet, TN



NE-6D L1632964-10 GW

Collected by: Chris F
 Collected date/time: 07/06/23 11:10
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092679	1	07/11/23 14:19	07/12/23 10:44	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 14:18	07/11/23 14:18	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 11:59	07/09/23 11:59	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:06	07/10/23 12:06	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 14:41	07/17/23 14:41	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 19:16	07/19/23 19:16	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:51	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:34	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091743	1	07/10/23 00:29	07/10/23 00:29	DWR	Mt. Juliet, TN

NE-7 L1632964-11 GW

Collected by: Chris F
 Collected date/time: 07/06/23 13:00
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093314	1	07/12/23 13:25	07/13/23 09:01	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 14:22	07/11/23 14:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 12:06	07/09/23 12:06	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:08	07/10/23 12:08	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 14:51	07/17/23 14:51	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 20:12	07/19/23 20:12	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:53	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:37	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091743	1	07/10/23 00:48	07/10/23 00:48	DWR	Mt. Juliet, TN

NE-8 L1632964-12 GW

Collected by: Chris F
 Collected date/time: 07/05/23 16:25
 Received date/time: 07/07/23 09:00

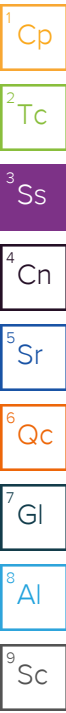
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2091908	1	07/10/23 11:15	07/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 14:34	07/11/23 14:34	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 12:07	07/09/23 12:07	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:10	07/10/23 12:10	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 15:01	07/17/23 15:01	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 20:38	07/19/23 20:38	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:56	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:41	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091743	1	07/10/23 01:08	07/10/23 01:08	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

NE-9 L1632964-13 GW

Collected by: Chris F
 Collected date/time: 07/05/23 10:50
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2091908	1	07/10/23 11:15	07/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 14:38	07/11/23 14:38	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 12:09	07/09/23 12:09	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:13	07/10/23 12:13	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 15:11	07/17/23 15:11	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 20:51	07/19/23 20:51	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 17:59	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:44	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091743	1	07/10/23 01:28	07/10/23 01:28	DWR	Mt. Juliet, TN



WILDCAT CREEK SW L1632964-14 GW

Collected by: Chris F
 Collected date/time: 07/06/23 15:30
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092845	1	07/11/23 15:53	07/11/23 23:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 14:42	07/11/23 14:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 12:10	07/09/23 12:10	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	5	07/10/23 12:18	07/10/23 12:18	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 15:21	07/17/23 15:21	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 21:04	07/19/23 21:04	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 18:02	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091743	1	07/10/23 01:47	07/10/23 01:47	DWR	Mt. Juliet, TN

NE-11 L1632964-15 GW

Collected by: Chris F
 Collected date/time: 07/06/23 13:45
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092845	1	07/11/23 15:53	07/11/23 23:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 14:48	07/11/23 14:48	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 12:12	07/09/23 12:12	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:19	07/10/23 12:19	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 15:31	07/17/23 15:31	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 21:21	07/19/23 21:21	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 18:04	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 22:51	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091743	1	07/10/23 02:07	07/10/23 02:07	DWR	Mt. Juliet, TN

NE-12 L1632964-16 GW

Collected by: Chris F
 Collected date/time: 07/05/23 14:30
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2091908	1	07/10/23 11:15	07/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 14:54	07/11/23 14:54	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 12:13	07/09/23 12:13	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:20	07/10/23 12:20	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 15:41	07/17/23 15:41	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 22:08	07/19/23 22:08	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 18:07	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 23:00	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091743	1	07/10/23 02:26	07/10/23 02:26	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

DUP 2 L1632964-17 GW

Collected by: Chris F
 Collected date/time: 07/05/23 07:00
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2091908	1	07/10/23 11:15	07/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 14:59	07/11/23 14:59	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 12:15	07/09/23 12:15	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:22	07/10/23 12:22	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 15:51	07/17/23 15:51	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 22:20	07/19/23 22:20	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 18:15	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 23:04	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091743	1	07/10/23 02:46	07/10/23 02:46	DWR	Mt. Juliet, TN



NE-14D L1632964-18 GW

Collected by: Chris F
 Collected date/time: 07/05/23 12:25
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2091908	1	07/10/23 11:15	07/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 15:05	07/11/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 12:16	07/09/23 12:16	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	2	07/10/23 12:23	07/10/23 12:23	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 16:20	07/17/23 16:20	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 22:32	07/19/23 22:32	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 18:18	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 23:07	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091743	1	07/10/23 03:06	07/10/23 03:06	DWR	Mt. Juliet, TN

NE-14S L1632964-19 GW

Collected by: Chris F
 Collected date/time: 07/05/23 12:50
 Received date/time: 07/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092031	1	07/10/23 13:34	07/10/23 16:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 15:12	07/11/23 15:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 12:18	07/09/23 12:18	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:24	07/10/23 12:24	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 16:30	07/17/23 16:30	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 22:45	07/19/23 22:45	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 18:20	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 23:11	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091743	1	07/10/23 03:26	07/10/23 03:26	DWR	Mt. Juliet, TN

NE-15D L1632964-20 GW

Collected by: Chris F
 Collected date/time: 07/06/23 14:30
 Received date/time: 07/07/23 09:00

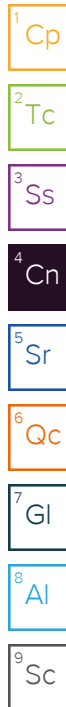
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092790	1	07/11/23 15:19	07/11/23 22:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2092179	1	07/11/23 15:34	07/11/23 15:34	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091549	1	07/09/23 12:25	07/09/23 12:25	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2091044	1	07/10/23 12:26	07/10/23 12:26	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2095721	1	07/17/23 16:40	07/17/23 16:40	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2097397	1	07/19/23 22:57	07/19/23 22:57	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2091021	1	07/10/23 11:07	07/17/23 18:23	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091027	1	07/10/23 11:10	07/11/23 23:14	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2091743	1	07/10/23 03:45	07/10/23 03:45	DWR	Mt. Juliet, TN

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Stacy Kennedy
Project Manager



Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Sample Delivery Group (SDG) Narrative

The laboratory analysis was performed from an unpreserved, insufficiently or inadequately preserved sample.

Batch	Method	Lab Sample ID
WG2097397	9060A	L1632964-20

Wet Chemistry by Method 9060A

RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Batch	Lab Sample ID	Analytes
WG2097397	(DUP) R3950509-5, L1632964-05	TOC

Metals (ICP) by Method 6010B

The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

Batch	Lab Sample ID	Analytes
WG2091021	L1632964-03	Calcium, Total Recoverable

Volatile Organic Compounds (GC/MS) by Method 8260B

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2091714	(LCS) R3947881-2, L1632964-01, 02, 03, 04, 05, 06, 07, 08, 09	2-Hexanone
WG2091743	(LCS) R3946635-1, L1632964-10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1,1,2-Trichloroethane and Dibromomethane

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2091743	(LCSD) R3946635-2, L1632964-10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Vinyl acetate

CASE NARRATIVE

Volatile Organic Compounds (GC/MS) by Method 8260B

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2091743	(MS) R3946635-4, (MSD) R3946635-5	Bromomethane

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/09/2023 19:36	WG2091714
1,1,1-Trichloroethane	ND		1.00	1	07/09/2023 19:36	WG2091714
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/09/2023 19:36	WG2091714
1,1,2-Trichloroethane	ND		1.00	1	07/09/2023 19:36	WG2091714
1,1-Dichloroethane	ND		1.00	1	07/09/2023 19:36	WG2091714
1,1-Dichloroethene	ND		1.00	1	07/09/2023 19:36	WG2091714
1,2,3-Trichloropropane	ND		1.00	1	07/09/2023 19:36	WG2091714
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/09/2023 19:36	WG2091714
1,2-Dibromoethane	ND		1.00	1	07/09/2023 19:36	WG2091714
1,2-Dichlorobenzene	ND		1.00	1	07/09/2023 19:36	WG2091714
1,2-Dichloroethane	ND		1.00	1	07/09/2023 19:36	WG2091714
1,2-Dichloropropane	ND		1.00	1	07/09/2023 19:36	WG2091714
1,4-Dichlorobenzene	ND		1.00	1	07/09/2023 19:36	WG2091714
2-Butanone (MEK)	ND		5.00	1	07/09/2023 19:36	WG2091714
2-Hexanone	ND	J4	5.00	1	07/09/2023 19:36	WG2091714
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/09/2023 19:36	WG2091714
Acetone	ND		10.0	1	07/09/2023 19:36	WG2091714
Acrylonitrile	ND		20.0	1	07/09/2023 19:36	WG2091714
Benzene	ND		1.00	1	07/09/2023 19:36	WG2091714
Bromochloromethane	ND		1.00	1	07/09/2023 19:36	WG2091714
Bromodichloromethane	ND		1.00	1	07/09/2023 19:36	WG2091714
Bromoform	ND		1.00	1	07/09/2023 19:36	WG2091714
Bromomethane	ND		1.00	1	07/09/2023 19:36	WG2091714
Carbon disulfide	ND		1.00	1	07/09/2023 19:36	WG2091714
Carbon tetrachloride	ND		1.00	1	07/09/2023 19:36	WG2091714
Chlorobenzene	ND		1.00	1	07/09/2023 19:36	WG2091714
Chloroethane	ND		1.00	1	07/09/2023 19:36	WG2091714
Chloroform	ND		1.00	1	07/09/2023 19:36	WG2091714
Chloromethane	ND		1.00	1	07/09/2023 19:36	WG2091714
Dibromochloromethane	ND		1.00	1	07/09/2023 19:36	WG2091714
Dibromomethane	ND		1.00	1	07/09/2023 19:36	WG2091714
Ethylbenzene	ND		1.00	1	07/09/2023 19:36	WG2091714
Iodomethane	ND		1.00	1	07/09/2023 19:36	WG2091714
Methylene Chloride	ND		1.07	1	07/09/2023 19:36	WG2091714
Styrene	ND		1.00	1	07/09/2023 19:36	WG2091714
Tetrachloroethene	ND		1.00	1	07/09/2023 19:36	WG2091714
Toluene	ND		1.00	1	07/09/2023 19:36	WG2091714
Trichloroethene	ND		1.00	1	07/09/2023 19:36	WG2091714
Trichlorofluoromethane	ND		1.00	1	07/09/2023 19:36	WG2091714
Vinyl acetate	ND		5.00	1	07/09/2023 19:36	WG2091714
Vinyl chloride	ND		1.00	1	07/09/2023 19:36	WG2091714
Xylenes, Total	ND		1.00	1	07/09/2023 19:36	WG2091714
cis-1,2-Dichloroethene	ND		1.00	1	07/09/2023 19:36	WG2091714
cis-1,3-Dichloropropene	ND		1.00	1	07/09/2023 19:36	WG2091714
trans-1,2-Dichloroethene	ND		1.00	1	07/09/2023 19:36	WG2091714
trans-1,3-Dichloropropene	ND		1.00	1	07/09/2023 19:36	WG2091714
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/09/2023 19:36	WG2091714
(S) 1,2-Dichloroethane-d4	111			70.0-130	07/09/2023 19:36	WG2091714
(S) 4-Bromofluorobenzene	97.7			77.0-126	07/09/2023 19:36	WG2091714
(S) Toluene-d8	111			80.0-120	07/09/2023 19:36	WG2091714

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Dissolved Solids	mg/l	ND	10.0	1	07/10/2023 15:39	WG2091908

1 Cp

2 Tc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Alkalinity	mg/l	ND	10.0	1	07/11/2023 11:17	WG2092169
Alkalinity,Bicarbonate	mg/l	ND	10.0	1	07/11/2023 11:17	WG2092169
Alkalinity,Carbonate	mg/l	ND	10.0	1	07/11/2023 11:17	WG2092169

3 Ss

4 Cn

5 Sr

Sample Narrative:

L1632964-02 WG2092169: Endpoint pH 4.5 Headspace

6 Qc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Ammonia Nitrogen	mg/l	ND	0.100	1	07/08/2023 23:36	WG2091446

7 Gl

8 Al

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Nitrate-Nitrite	mg/l	ND	0.100	1	07/10/2023 11:49	WG2091044

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Chloride	mg/l	ND	3.00	1	07/17/2023 18:48	WG2095717
Sulfate	mg/l	ND	5.00	1	07/17/2023 18:48	WG2095717

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
TOC	mg/l	ND	1.00	1	07/19/2023 09:40	WG2096740

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Silver, Total Recoverable	mg/l	ND	0.0500	1	07/17/2023 17:27	WG2091021
Barium, Total Recoverable	mg/l	ND	0.00500	1	07/17/2023 17:27	WG2091021
Calcium, Total Recoverable	mg/l	ND	0.200	1	07/17/2023 17:27	WG2091021
Iron, Total Recoverable	mg/l	ND	0.0600	1	07/17/2023 17:27	WG2091021
Potassium, Total Recoverable	mg/l	ND	3.00	1	07/17/2023 17:27	WG2091021
Magnesium, Total Recoverable	mg/l	ND	0.200	1	07/17/2023 17:27	WG2091021
Manganese, Total Recoverable	mg/l	ND	0.00300	1	07/17/2023 17:27	WG2091021
Sodium, Total Recoverable	mg/l	ND	5.00	1	07/17/2023 17:27	WG2091021
Lead, Total Recoverable	mg/l	ND	0.00500	1	07/17/2023 17:27	WG2091021
Selenium, Total Recoverable	mg/l	ND	0.0100	1	07/17/2023 17:27	WG2091021

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 21:47	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 21:47	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 21:47	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 21:47	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 21:47	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 21:47	WG2091027
Nickel, Total Recoverable	ND		0.00400	1	07/11/2023 21:47	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 21:47	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 21:47	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 21:47	WG2091027
Zinc, Total Recoverable	ND		0.00500	1	07/11/2023 21:47	WG2091027

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/09/2023 20:20	WG2091714
1,1,1-Trichloroethane	ND		1.00	1	07/09/2023 20:20	WG2091714
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/09/2023 20:20	WG2091714
1,1,2-Trichloroethane	ND		1.00	1	07/09/2023 20:20	WG2091714
1,1-Dichloroethane	ND		1.00	1	07/09/2023 20:20	WG2091714
1,1-Dichloroethene	ND		1.00	1	07/09/2023 20:20	WG2091714
1,2,3-Trichloropropane	ND		1.00	1	07/09/2023 20:20	WG2091714
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/09/2023 20:20	WG2091714
1,2-Dibromoethane	ND		1.00	1	07/09/2023 20:20	WG2091714
1,2-Dichlorobenzene	ND		1.00	1	07/09/2023 20:20	WG2091714
1,2-Dichloroethane	ND		1.00	1	07/09/2023 20:20	WG2091714
1,2-Dichloropropane	ND		1.00	1	07/09/2023 20:20	WG2091714
1,4-Dichlorobenzene	ND		1.00	1	07/09/2023 20:20	WG2091714
2-Butanone (MEK)	ND		5.00	1	07/09/2023 20:20	WG2091714
2-Hexanone	ND	J4	5.00	1	07/09/2023 20:20	WG2091714
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/09/2023 20:20	WG2091714
Acetone	ND		10.0	1	07/09/2023 20:20	WG2091714
Acrylonitrile	ND		20.0	1	07/09/2023 20:20	WG2091714
Benzene	ND		1.00	1	07/09/2023 20:20	WG2091714
Bromochloromethane	ND		1.00	1	07/09/2023 20:20	WG2091714
Bromodichloromethane	ND		1.00	1	07/09/2023 20:20	WG2091714
Bromoform	ND		1.00	1	07/09/2023 20:20	WG2091714
Bromomethane	ND		1.00	1	07/09/2023 20:20	WG2091714
Carbon disulfide	ND		1.00	1	07/09/2023 20:20	WG2091714
Carbon tetrachloride	ND		1.00	1	07/09/2023 20:20	WG2091714
Chlorobenzene	ND		1.00	1	07/09/2023 20:20	WG2091714
Chloroethane	ND		1.00	1	07/09/2023 20:20	WG2091714
Chloroform	ND		1.00	1	07/09/2023 20:20	WG2091714
Chloromethane	ND		1.00	1	07/09/2023 20:20	WG2091714
Dibromochloromethane	ND		1.00	1	07/09/2023 20:20	WG2091714
Dibromomethane	ND		1.00	1	07/09/2023 20:20	WG2091714
Ethylbenzene	ND		1.00	1	07/09/2023 20:20	WG2091714
Iodomethane	ND		1.00	1	07/09/2023 20:20	WG2091714
Methylene Chloride	ND		1.07	1	07/09/2023 20:20	WG2091714
Styrene	ND		1.00	1	07/09/2023 20:20	WG2091714
Tetrachloroethene	ND		1.00	1	07/09/2023 20:20	WG2091714
Toluene	5.26		1.00	1	07/09/2023 20:20	WG2091714
Trichloroethene	ND		1.00	1	07/09/2023 20:20	WG2091714
Trichlorofluoromethane	ND		1.00	1	07/09/2023 20:20	WG2091714
Vinyl acetate	ND		5.00	1	07/09/2023 20:20	WG2091714
Vinyl chloride	ND		1.00	1	07/09/2023 20:20	WG2091714

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Xylenes, Total	2.86		1.00	1	07/09/2023 20:20	WG2091714
cis-1,2-Dichloroethene	ND		1.00	1	07/09/2023 20:20	WG2091714
cis-1,3-Dichloropropene	ND		1.00	1	07/09/2023 20:20	WG2091714
trans-1,2-Dichloroethene	ND		1.00	1	07/09/2023 20:20	WG2091714
trans-1,3-Dichloropropene	ND		1.00	1	07/09/2023 20:20	WG2091714
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/09/2023 20:20	WG2091714
(S) 1,2-Dichloroethane-d4	109			70.0-130	07/09/2023 20:20	WG2091714
(S) 4-Bromofluorobenzene	101			77.0-126	07/09/2023 20:20	WG2091714
(S) Toluene-d8	117			80.0-120	07/09/2023 20:20	WG2091714

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.29	su
Specific Conductance (on site)	489	umhos/cm
Temperature (on-site)	16.6	Deg. C
Turbidity (on-site)	5.1	NTU
Dissolved Oxygen (on-site)	4.7	mg/l
eH/ORP (On Site)	182.7	mV
Depth to water (DTW) (FROM TOC)	46.92	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	429		10.0	1	07/10/2023 15:39	WG2091908

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	187		10.0	1	07/11/2023 11:19	WG2092169
Alkalinity,Bicarbonate	187		10.0	1	07/11/2023 11:19	WG2092169
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 11:19	WG2092169

Sample Narrative:

L1632964-03 WG2092169: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/08/2023 23:38	WG2091446

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.932		0.100	1	07/10/2023 11:52	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	20.4		3.00	1	07/17/2023 19:05	WG2095717
Sulfate	16.6		5.00	1	07/17/2023 19:05	WG2095717

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.91		1.00	1	07/19/2023 09:52	WG2096740

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 17:16	WG2091021
Barium, Total Recoverable	0.0201		0.00500	1	07/17/2023 17:16	WG2091021
Calcium, Total Recoverable	62.2	O1	0.200	1	07/17/2023 17:16	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 17:16	WG2091021
Potassium, Total Recoverable	3.99		3.00	1	07/17/2023 17:16	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	4.81		0.200	1	07/17/2023 17:16	WG2091021
Manganese, Total Recoverable	0.0307		0.00300	1	07/17/2023 17:16	WG2091021
Sodium, Total Recoverable	21.7		5.00	1	07/17/2023 17:16	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 17:16	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 17:16	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:03	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:03	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 22:03	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 22:03	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:03	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:03	WG2091027
Nickel, Total Recoverable	ND		0.00400	1	07/11/2023 22:03	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:03	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:03	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:03	WG2091027
Zinc, Total Recoverable	ND		0.00500	1	07/11/2023 22:03	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/09/2023 23:55	WG2091714
1,1,1-Trichloroethane	ND		1.00	1	07/09/2023 23:55	WG2091714
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/09/2023 23:55	WG2091714
1,1,2-Trichloroethane	ND		1.00	1	07/09/2023 23:55	WG2091714
1,1-Dichloroethane	ND		1.00	1	07/09/2023 23:55	WG2091714
1,1-Dichloroethene	ND		1.00	1	07/09/2023 23:55	WG2091714
1,2,3-Trichloropropane	ND		1.00	1	07/09/2023 23:55	WG2091714
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/09/2023 23:55	WG2091714
1,2-Dibromoethane	ND		1.00	1	07/09/2023 23:55	WG2091714
1,2-Dichlorobenzene	ND		1.00	1	07/09/2023 23:55	WG2091714
1,2-Dichloroethane	ND		1.00	1	07/09/2023 23:55	WG2091714
1,2-Dichloropropane	ND		1.00	1	07/09/2023 23:55	WG2091714
1,4-Dichlorobenzene	ND		1.00	1	07/09/2023 23:55	WG2091714
2-Butanone (MEK)	ND		5.00	1	07/09/2023 23:55	WG2091714
2-Hexanone	ND	J4	5.00	1	07/09/2023 23:55	WG2091714
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/09/2023 23:55	WG2091714
Acetone	ND		10.0	1	07/09/2023 23:55	WG2091714
Acrylonitrile	ND		20.0	1	07/09/2023 23:55	WG2091714
Benzene	ND		1.00	1	07/09/2023 23:55	WG2091714
Bromochloromethane	ND		1.00	1	07/09/2023 23:55	WG2091714
Bromodichloromethane	ND		1.00	1	07/09/2023 23:55	WG2091714
Bromoform	ND		1.00	1	07/09/2023 23:55	WG2091714
Bromomethane	ND		1.00	1	07/09/2023 23:55	WG2091714
Carbon disulfide	ND		1.00	1	07/09/2023 23:55	WG2091714
Carbon tetrachloride	ND		1.00	1	07/09/2023 23:55	WG2091714
Chlorobenzene	ND		1.00	1	07/09/2023 23:55	WG2091714
Chloroethane	ND		1.00	1	07/09/2023 23:55	WG2091714
Chloroform	ND		1.00	1	07/09/2023 23:55	WG2091714
Chloromethane	ND		1.00	1	07/09/2023 23:55	WG2091714
Dibromochloromethane	ND		1.00	1	07/09/2023 23:55	WG2091714
Dibromomethane	ND		1.00	1	07/09/2023 23:55	WG2091714

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/09/2023 23:55	WG2091714	1 Cp
Iodomethane	ND		1.00	1	07/09/2023 23:55	WG2091714	2 Tc
Methylene Chloride	ND		1.07	1	07/09/2023 23:55	WG2091714	
Styrene	ND		1.00	1	07/09/2023 23:55	WG2091714	3 Ss
Tetrachloroethene	ND		1.00	1	07/09/2023 23:55	WG2091714	
Toluene	ND		1.00	1	07/09/2023 23:55	WG2091714	4 Cn
Trichloroethene	ND		1.00	1	07/09/2023 23:55	WG2091714	
Trichlorofluoromethane	ND		1.00	1	07/09/2023 23:55	WG2091714	
Vinyl acetate	ND		5.00	1	07/09/2023 23:55	WG2091714	5 Sr
Vinyl chloride	ND		1.00	1	07/09/2023 23:55	WG2091714	
Xylenes, Total	ND		1.00	1	07/09/2023 23:55	WG2091714	6 Qc
cis-1,2-Dichloroethene	ND		1.00	1	07/09/2023 23:55	WG2091714	
cis-1,3-Dichloropropene	ND		1.00	1	07/09/2023 23:55	WG2091714	
trans-1,2-Dichloroethene	ND		1.00	1	07/09/2023 23:55	WG2091714	7 Gl
trans-1,3-Dichloropropene	ND		1.00	1	07/09/2023 23:55	WG2091714	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/09/2023 23:55	WG2091714	8 Al
(S) 1,2-Dichloroethane-d4	113			70.0-130	07/09/2023 23:55	WG2091714	
(S) 4-Bromofluorobenzene	93.2			77.0-126	07/09/2023 23:55	WG2091714	
(S) Toluene-d8	110			80.0-120	07/09/2023 23:55	WG2091714	9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.42	su
Specific Conductance (on site)	537	umhos/cm
Temperature (on-site)	16.7	Deg. C
Turbidity (on-site)	3.8	NTU
Dissolved Oxygen (on-site)	2.6	mg/l
eH/ORP (On Site)	193.7	mV
Depth to water (DTW) (FROM TOC)	21.88	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	294		10.0	1	07/10/2023 16:20	WG2092031

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	170		10.0	1	07/11/2023 11:23	WG2092169
Alkalinity,Bicarbonate	170		10.0	1	07/11/2023 11:23	WG2092169
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 11:23	WG2092169

Sample Narrative:

L1632964-04 WG2092169: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/08/2023 23:39	WG2091446

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	7.00		0.100	5	07/10/2023 11:55	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	27.1		3.00	1	07/17/2023 12:50	WG2095721
Sulfate	9.45		5.00	1	07/17/2023 12:50	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.84		1.00	1	07/19/2023 16:25	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 17:29	WG2091021
Barium, Total Recoverable	0.119		0.00500	1	07/17/2023 17:29	WG2091021
Calcium, Total Recoverable	63.7		0.200	1	07/17/2023 17:29	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 17:29	WG2091021
Potassium, Total Recoverable	6.37		3.00	1	07/17/2023 17:29	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	4.91		0.200	1	07/17/2023 17:29	WG2091021
Manganese, Total Recoverable	0.0233		0.00300	1	07/17/2023 17:29	WG2091021
Sodium, Total Recoverable	24.1		5.00	1	07/17/2023 17:29	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 17:29	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 17:29	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:06	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:06	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 22:06	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 22:06	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:06	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:06	WG2091027
Nickel, Total Recoverable	ND		0.00400	1	07/11/2023 22:06	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:06	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:06	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:06	WG2091027
Zinc, Total Recoverable	ND		0.00500	1	07/11/2023 22:06	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 00:16	WG2091714
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 00:16	WG2091714
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 00:16	WG2091714
1,1,2-Trichloroethane	ND		1.00	1	07/10/2023 00:16	WG2091714
1,1-Dichloroethane	ND		1.00	1	07/10/2023 00:16	WG2091714
1,1-Dichloroethene	ND		1.00	1	07/10/2023 00:16	WG2091714
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 00:16	WG2091714
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 00:16	WG2091714
1,2-Dibromoethane	ND		1.00	1	07/10/2023 00:16	WG2091714
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 00:16	WG2091714
1,2-Dichloroethane	ND		1.00	1	07/10/2023 00:16	WG2091714
1,2-Dichloropropane	ND		1.00	1	07/10/2023 00:16	WG2091714
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 00:16	WG2091714
2-Butanone (MEK)	ND		5.00	1	07/10/2023 00:16	WG2091714
2-Hexanone	ND	J4	5.00	1	07/10/2023 00:16	WG2091714
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 00:16	WG2091714
Acetone	ND		10.0	1	07/10/2023 00:16	WG2091714
Acrylonitrile	ND		20.0	1	07/10/2023 00:16	WG2091714
Benzene	ND		1.00	1	07/10/2023 00:16	WG2091714
Bromochloromethane	ND		1.00	1	07/10/2023 00:16	WG2091714
Bromodichloromethane	ND		1.00	1	07/10/2023 00:16	WG2091714
Bromoform	ND		1.00	1	07/10/2023 00:16	WG2091714
Bromomethane	ND		1.00	1	07/10/2023 00:16	WG2091714
Carbon disulfide	ND		1.00	1	07/10/2023 00:16	WG2091714
Carbon tetrachloride	ND		1.00	1	07/10/2023 00:16	WG2091714
Chlorobenzene	ND		1.00	1	07/10/2023 00:16	WG2091714
Chloroethane	ND		1.00	1	07/10/2023 00:16	WG2091714
Chloroform	ND		1.00	1	07/10/2023 00:16	WG2091714
Chloromethane	ND		1.00	1	07/10/2023 00:16	WG2091714
Dibromochloromethane	ND		1.00	1	07/10/2023 00:16	WG2091714
Dibromomethane	ND		1.00	1	07/10/2023 00:16	WG2091714

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/10/2023 00:16	WG2091714	¹ Cp
Iodomethane	ND		1.00	1	07/10/2023 00:16	WG2091714	² Tc
Methylene Chloride	ND		1.07	1	07/10/2023 00:16	WG2091714	³ Ss
Styrene	ND		1.00	1	07/10/2023 00:16	WG2091714	⁴ Cn
Tetrachloroethene	ND		1.00	1	07/10/2023 00:16	WG2091714	⁵ Sr
Toluene	ND		1.00	1	07/10/2023 00:16	WG2091714	⁶ Qc
Trichloroethene	ND		1.00	1	07/10/2023 00:16	WG2091714	⁷ Gl
Trichlorofluoromethane	ND		1.00	1	07/10/2023 00:16	WG2091714	⁸ Al
Vinyl acetate	ND		5.00	1	07/10/2023 00:16	WG2091714	⁹ Sc
Vinyl chloride	ND		1.00	1	07/10/2023 00:16	WG2091714	
Xylenes, Total	ND		1.00	1	07/10/2023 00:16	WG2091714	
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 00:16	WG2091714	
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 00:16	WG2091714	
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 00:16	WG2091714	
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 00:16	WG2091714	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 00:16	WG2091714	
(S) 1,2-Dichloroethane-d4	115			70.0-130	07/10/2023 00:16	WG2091714	
(S) 4-Bromofluorobenzene	98.1			77.0-126	07/10/2023 00:16	WG2091714	
(S) Toluene-d8	111			80.0-120	07/10/2023 00:16	WG2091714	

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.83	su
Specific Conductance (on site)	481	umhos/cm
Temperature (on-site)	18.8	Deg. C
Turbidity (on-site)	6.1	NTU
Dissolved Oxygen (on-site)	7.8	mg/l
eH/ORP (On Site)	199.7	mV
Depth to water (DTW) (FROM TOC)	64.75	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	34.0		10.0	1	07/10/2023 16:20	WG2092031

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	239		10.0	1	07/11/2023 11:27	WG2092169
Alkalinity,Bicarbonate	239		10.0	1	07/11/2023 11:27	WG2092169
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 11:27	WG2092169

Sample Narrative:

L1632964-05 WG2092169: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/08/2023 23:41	WG2091446

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	10.6		0.197	10	07/10/2023 11:56	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	4.79		3.00	1	07/17/2023 13:30	WG2095721
Sulfate	5.86		5.00	1	07/17/2023 13:30	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.01	P1	1.00	1	07/19/2023 17:23	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 17:32	WG2091021
Barium,Total Recoverable	0.0369		0.00500	1	07/17/2023 17:32	WG2091021
Calcium, Total Recoverable	81.3		0.200	1	07/17/2023 17:32	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 17:32	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 17:32	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	3.72		0.200	1	07/17/2023 17:32	WG2091021
Manganese, Total Recoverable	0.00596	J	0.00300	1	07/17/2023 17:32	WG2091021
Sodium, Total Recoverable	20.5		5.00	1	07/17/2023 17:32	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 17:32	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 17:32	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:10	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:10	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 22:10	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 22:10	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:10	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:10	WG2091027
Nickel, Total Recoverable	0.0117		0.00400	1	07/11/2023 22:10	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:10	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:10	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:10	WG2091027
Zinc, Total Recoverable	0.00771	J	0.00500	1	07/11/2023 22:10	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 00:38	WG2091714
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 00:38	WG2091714
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 00:38	WG2091714
1,1,2-Trichloroethane	ND		1.00	1	07/10/2023 00:38	WG2091714
1,1-Dichloroethane	ND		1.00	1	07/10/2023 00:38	WG2091714
1,1-Dichloroethene	ND		1.00	1	07/10/2023 00:38	WG2091714
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 00:38	WG2091714
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 00:38	WG2091714
1,2-Dibromoethane	ND		1.00	1	07/10/2023 00:38	WG2091714
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 00:38	WG2091714
1,2-Dichloroethane	ND		1.00	1	07/10/2023 00:38	WG2091714
1,2-Dichloropropane	ND		1.00	1	07/10/2023 00:38	WG2091714
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 00:38	WG2091714
2-Butanone (MEK)	ND		5.00	1	07/10/2023 00:38	WG2091714
2-Hexanone	ND	J4	5.00	1	07/10/2023 00:38	WG2091714
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 00:38	WG2091714
Acetone	ND		10.0	1	07/10/2023 00:38	WG2091714
Acrylonitrile	ND		20.0	1	07/10/2023 00:38	WG2091714
Benzene	ND		1.00	1	07/10/2023 00:38	WG2091714
Bromochloromethane	ND		1.00	1	07/10/2023 00:38	WG2091714
Bromodichloromethane	ND		1.00	1	07/10/2023 00:38	WG2091714
Bromoform	ND		1.00	1	07/10/2023 00:38	WG2091714
Bromomethane	ND		1.00	1	07/10/2023 00:38	WG2091714
Carbon disulfide	ND		1.00	1	07/10/2023 00:38	WG2091714
Carbon tetrachloride	ND		1.00	1	07/10/2023 00:38	WG2091714
Chlorobenzene	ND		1.00	1	07/10/2023 00:38	WG2091714
Chloroethane	ND		1.00	1	07/10/2023 00:38	WG2091714
Chloroform	ND		1.00	1	07/10/2023 00:38	WG2091714
Chloromethane	ND		1.00	1	07/10/2023 00:38	WG2091714
Dibromochloromethane	ND		1.00	1	07/10/2023 00:38	WG2091714
Dibromomethane	ND		1.00	1	07/10/2023 00:38	WG2091714

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/10/2023 00:38	WG2091714	¹ Cp
Iodomethane	ND		1.00	1	07/10/2023 00:38	WG2091714	² Tc
Methylene Chloride	ND		1.07	1	07/10/2023 00:38	WG2091714	
Styrene	ND		1.00	1	07/10/2023 00:38	WG2091714	³ Ss
Tetrachloroethene	ND		1.00	1	07/10/2023 00:38	WG2091714	
Toluene	ND		1.00	1	07/10/2023 00:38	WG2091714	⁴ Cn
Trichloroethene	ND		1.00	1	07/10/2023 00:38	WG2091714	
Trichlorofluoromethane	ND		1.00	1	07/10/2023 00:38	WG2091714	
Vinyl acetate	ND		5.00	1	07/10/2023 00:38	WG2091714	⁵ Sr
Vinyl chloride	ND		1.00	1	07/10/2023 00:38	WG2091714	
Xylenes, Total	ND		1.00	1	07/10/2023 00:38	WG2091714	⁶ Qc
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 00:38	WG2091714	
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 00:38	WG2091714	
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 00:38	WG2091714	⁷ Gl
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 00:38	WG2091714	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 00:38	WG2091714	⁸ Al
(S) 1,2-Dichloroethane-d4	115			70.0-130	07/10/2023 00:38	WG2091714	
(S) 4-Bromofluorobenzene	98.1			77.0-126	07/10/2023 00:38	WG2091714	
(S) Toluene-d8	113			80.0-120	07/10/2023 00:38	WG2091714	⁹ Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.91	su
Specific Conductance (on site)	627	umhos/cm
Temperature (on-site)	16.5	Deg. C
Turbidity (on-site)	9.8	NTU
Dissolved Oxygen (on-site)	0.6	mg/l
eH/ORP (On Site)	196	mV
Depth to water (DTW) (FROM TOC)	69.53	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	347		10.0	1	07/11/2023 23:00	WG2092845

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	310		10.0	1	07/11/2023 11:39	WG2092169
Alkalinity,Bicarbonate	310		10.0	1	07/11/2023 11:39	WG2092169
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 11:39	WG2092169

Sample Narrative:

L1632964-06 WG2092169: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 11:49	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.100	1	07/10/2023 12:01	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	8.43		3.00	1	07/17/2023 13:40	WG2095721
Sulfate	ND		5.00	1	07/17/2023 13:40	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.16		1.00	1	07/19/2023 17:48	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 17:35	WG2091021
Barium, Total Recoverable	0.0405		0.00500	1	07/17/2023 17:35	WG2091021
Calcium, Total Recoverable	115		0.200	1	07/17/2023 17:35	WG2091021
Iron, Total Recoverable	7.34		0.0600	1	07/17/2023 17:35	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 17:35	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	1.40		0.200	1	07/17/2023 17:35	WG2091021
Manganese, Total Recoverable	1.40		0.00300	1	07/17/2023 17:35	WG2091021
Sodium, Total Recoverable	9.66		5.00	1	07/17/2023 17:35	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 17:35	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 17:35	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:21	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:21	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 22:21	WG2091027
Cobalt, Total Recoverable	0.0276		0.00300	1	07/11/2023 22:21	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:21	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:21	WG2091027
Nickel, Total Recoverable	0.0803		0.00400	1	07/11/2023 22:21	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:21	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:21	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:21	WG2091027
Zinc, Total Recoverable	0.0465		0.00500	1	07/11/2023 22:21	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 00:59	WG2091714
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 00:59	WG2091714
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 00:59	WG2091714
1,1,2-Trichloroethane	ND		1.00	1	07/10/2023 00:59	WG2091714
1,1-Dichloroethane	ND		1.00	1	07/10/2023 00:59	WG2091714
1,1-Dichloroethene	ND		1.00	1	07/10/2023 00:59	WG2091714
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 00:59	WG2091714
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 00:59	WG2091714
1,2-Dibromoethane	ND		1.00	1	07/10/2023 00:59	WG2091714
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 00:59	WG2091714
1,2-Dichloroethane	ND		1.00	1	07/10/2023 00:59	WG2091714
1,2-Dichloropropane	ND		1.00	1	07/10/2023 00:59	WG2091714
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 00:59	WG2091714
2-Butanone (MEK)	ND		5.00	1	07/10/2023 00:59	WG2091714
2-Hexanone	ND	J4	5.00	1	07/10/2023 00:59	WG2091714
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 00:59	WG2091714
Acetone	ND		10.0	1	07/10/2023 00:59	WG2091714
Acrylonitrile	ND		20.0	1	07/10/2023 00:59	WG2091714
Benzene	ND		1.00	1	07/10/2023 00:59	WG2091714
Bromochloromethane	ND		1.00	1	07/10/2023 00:59	WG2091714
Bromodichloromethane	ND		1.00	1	07/10/2023 00:59	WG2091714
Bromoform	ND		1.00	1	07/10/2023 00:59	WG2091714
Bromomethane	ND		1.00	1	07/10/2023 00:59	WG2091714
Carbon disulfide	ND		1.00	1	07/10/2023 00:59	WG2091714
Carbon tetrachloride	ND		1.00	1	07/10/2023 00:59	WG2091714
Chlorobenzene	ND		1.00	1	07/10/2023 00:59	WG2091714
Chloroethane	ND		1.00	1	07/10/2023 00:59	WG2091714
Chloroform	ND		1.00	1	07/10/2023 00:59	WG2091714
Chloromethane	ND		1.00	1	07/10/2023 00:59	WG2091714
Dibromochloromethane	ND		1.00	1	07/10/2023 00:59	WG2091714
Dibromomethane	ND		1.00	1	07/10/2023 00:59	WG2091714

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/10/2023 00:59	WG2091714	¹ Cp
Iodomethane	ND		1.00	1	07/10/2023 00:59	WG2091714	² Tc
Methylene Chloride	ND		1.07	1	07/10/2023 00:59	WG2091714	³ Ss
Styrene	ND		1.00	1	07/10/2023 00:59	WG2091714	⁴ Cn
Tetrachloroethene	ND		1.00	1	07/10/2023 00:59	WG2091714	⁵ Sr
Toluene	ND		1.00	1	07/10/2023 00:59	WG2091714	⁶ Qc
Trichloroethene	ND		1.00	1	07/10/2023 00:59	WG2091714	⁷ Gl
Trichlorofluoromethane	ND		1.00	1	07/10/2023 00:59	WG2091714	⁸ Al
Vinyl acetate	ND		5.00	1	07/10/2023 00:59	WG2091714	⁹ Sc
Vinyl chloride	ND		1.00	1	07/10/2023 00:59	WG2091714	
Xylenes, Total	ND		1.00	1	07/10/2023 00:59	WG2091714	
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 00:59	WG2091714	
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 00:59	WG2091714	
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 00:59	WG2091714	
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 00:59	WG2091714	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 00:59	WG2091714	
(S) 1,2-Dichloroethane-d4	109			70.0-130	07/10/2023 00:59	WG2091714	
(S) 4-Bromofluorobenzene	99.4			77.0-126	07/10/2023 00:59	WG2091714	
(S) Toluene-d8	116			80.0-120	07/10/2023 00:59	WG2091714	

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.96	su
Specific Conductance (on site)	689	umhos/cm
Temperature (on-site)	18.2	Deg. C
Turbidity (on-site)	10.5	NTU
Dissolved Oxygen (on-site)	0.9	mg/l
eH/ORP (On Site)	199.8	mV
Depth to water (DTW) (FROM TOC)	66.88	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	390		10.0	1	07/11/2023 22:00	WG2092790

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	317		10.0	1	07/11/2023 11:43	WG2092169
Alkalinity,Bicarbonate	317		10.0	1	07/11/2023 11:43	WG2092169
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 11:43	WG2092169

Sample Narrative:

L1632964-07 WG2092169: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 11:53	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.323		0.100	1	07/10/2023 12:03	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	19.3		3.00	1	07/17/2023 13:50	WG2095721
Sulfate	5.72		5.00	1	07/17/2023 13:50	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.60		1.00	1	07/19/2023 18:01	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 17:43	WG2091021
Barium, Total Recoverable	0.0451		0.00500	1	07/17/2023 17:43	WG2091021
Calcium, Total Recoverable	118		0.200	1	07/17/2023 17:43	WG2091021
Iron, Total Recoverable	3.90		0.0600	1	07/17/2023 17:43	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 17:43	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	2.91		0.200	1	07/17/2023 17:43	WG2091021
Manganese, Total Recoverable	0.224		0.00300	1	07/17/2023 17:43	WG2091021
Sodium, Total Recoverable	15.8		5.00	1	07/17/2023 17:43	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 17:43	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 17:43	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:24	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:24	WG2091027
Cadmium, Total Recoverable	0.0171		0.00100	1	07/11/2023 22:24	WG2091027
Cobalt, Total Recoverable	0.0240		0.00300	1	07/11/2023 22:24	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:24	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:24	WG2091027
Nickel, Total Recoverable	0.0350		0.00400	1	07/11/2023 22:24	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:24	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:24	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:24	WG2091027
Zinc, Total Recoverable	0.0305		0.00500	1	07/11/2023 22:24	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 01:21	WG2091714
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 01:21	WG2091714
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 01:21	WG2091714
1,1,2-Trichloroethane	ND		1.00	1	07/10/2023 01:21	WG2091714
1,1-Dichloroethane	ND		1.00	1	07/10/2023 01:21	WG2091714
1,1-Dichloroethene	ND		1.00	1	07/10/2023 01:21	WG2091714
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 01:21	WG2091714
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 01:21	WG2091714
1,2-Dibromoethane	ND		1.00	1	07/10/2023 01:21	WG2091714
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 01:21	WG2091714
1,2-Dichloroethane	ND		1.00	1	07/10/2023 01:21	WG2091714
1,2-Dichloropropane	ND		1.00	1	07/10/2023 01:21	WG2091714
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 01:21	WG2091714
2-Butanone (MEK)	ND		5.00	1	07/10/2023 01:21	WG2091714
2-Hexanone	ND	J4	5.00	1	07/10/2023 01:21	WG2091714
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 01:21	WG2091714
Acetone	ND		10.0	1	07/10/2023 01:21	WG2091714
Acrylonitrile	ND		20.0	1	07/10/2023 01:21	WG2091714
Benzene	ND		1.00	1	07/10/2023 01:21	WG2091714
Bromochloromethane	ND		1.00	1	07/10/2023 01:21	WG2091714
Bromodichloromethane	ND		1.00	1	07/10/2023 01:21	WG2091714
Bromoform	ND		1.00	1	07/10/2023 01:21	WG2091714
Bromomethane	ND		1.00	1	07/10/2023 01:21	WG2091714
Carbon disulfide	ND		1.00	1	07/10/2023 01:21	WG2091714
Carbon tetrachloride	ND		1.00	1	07/10/2023 01:21	WG2091714
Chlorobenzene	ND		1.00	1	07/10/2023 01:21	WG2091714
Chloroethane	ND		1.00	1	07/10/2023 01:21	WG2091714
Chloroform	ND		1.00	1	07/10/2023 01:21	WG2091714
Chloromethane	ND		1.00	1	07/10/2023 01:21	WG2091714
Dibromochloromethane	ND		1.00	1	07/10/2023 01:21	WG2091714
Dibromomethane	ND		1.00	1	07/10/2023 01:21	WG2091714

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/10/2023 01:21	WG2091714
Iodomethane	ND		1.00	1	07/10/2023 01:21	WG2091714
Methylene Chloride	ND		1.07	1	07/10/2023 01:21	WG2091714
Styrene	ND		1.00	1	07/10/2023 01:21	WG2091714
Tetrachloroethene	ND		1.00	1	07/10/2023 01:21	WG2091714
Toluene	ND		1.00	1	07/10/2023 01:21	WG2091714
Trichloroethene	ND		1.00	1	07/10/2023 01:21	WG2091714
Trichlorofluoromethane	ND		1.00	1	07/10/2023 01:21	WG2091714
Vinyl acetate	ND		5.00	1	07/10/2023 01:21	WG2091714
Vinyl chloride	ND		1.00	1	07/10/2023 01:21	WG2091714
Xylenes, Total	ND		1.00	1	07/10/2023 01:21	WG2091714
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 01:21	WG2091714
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 01:21	WG2091714
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 01:21	WG2091714
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 01:21	WG2091714
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 01:21	WG2091714
(S) 1,2-Dichloroethane-d4	110			70.0-130	07/10/2023 01:21	WG2091714
(S) 4-Bromofluorobenzene	95.8			77.0-126	07/10/2023 01:21	WG2091714
(S) Toluene-d8	113			80.0-120	07/10/2023 01:21	WG2091714

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.95	su
Specific Conductance (on site)	704	umhos/cm
Temperature (on-site)	17.1	Deg. C
Turbidity (on-site)	10.7	NTU
Dissolved Oxygen (on-site)	0.7	mg/l
eH/ORP (On Site)	199.6	mV
Depth to water (DTW) (FROM TOC)	70.92	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	383		10.0	1	07/11/2023 22:00	WG2092790

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	354		10.0	1	07/11/2023 14:05	WG2092179
Alkalinity,Bicarbonate	354		10.0	1	07/11/2023 14:05	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 14:05	WG2092179

Sample Narrative:

L1632964-08 WG2092179: Endpoint pH 4.5

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 11:56	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.100	1	07/10/2023 12:04	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	11.9		3.00	1	07/17/2023 14:21	WG2095721
Sulfate	ND		5.00	1	07/17/2023 14:21	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.37		1.00	1	07/19/2023 18:14	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 17:45	WG2091021
Barium, Total Recoverable	0.0442		0.00500	1	07/17/2023 17:45	WG2091021
Calcium, Total Recoverable	131		0.200	1	07/17/2023 17:45	WG2091021
Iron, Total Recoverable	3.10		0.0600	1	07/17/2023 17:45	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 17:45	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	1.84		0.200	1	07/17/2023 17:45	WG2091021
Manganese, Total Recoverable	0.373		0.00300	1	07/17/2023 17:45	WG2091021
Sodium, Total Recoverable	8.78		5.00	1	07/17/2023 17:45	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 17:45	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 17:45	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:28	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:28	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 22:28	WG2091027
Cobalt, Total Recoverable	0.0204		0.00300	1	07/11/2023 22:28	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:28	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:28	WG2091027
Nickel, Total Recoverable	0.0538		0.00400	1	07/11/2023 22:28	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:28	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:28	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:28	WG2091027
Zinc, Total Recoverable	0.0458		0.00500	1	07/11/2023 22:28	WG2091027

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 01:42	WG2091714
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 01:42	WG2091714
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 01:42	WG2091714
1,1,2-Trichloroethane	ND		1.00	1	07/10/2023 01:42	WG2091714
1,1-Dichloroethane	ND		1.00	1	07/10/2023 01:42	WG2091714
1,1-Dichloroethene	ND		1.00	1	07/10/2023 01:42	WG2091714
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 01:42	WG2091714
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 01:42	WG2091714
1,2-Dibromoethane	ND		1.00	1	07/10/2023 01:42	WG2091714
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 01:42	WG2091714
1,2-Dichloroethane	ND		1.00	1	07/10/2023 01:42	WG2091714
1,2-Dichloropropane	ND		1.00	1	07/10/2023 01:42	WG2091714
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 01:42	WG2091714
2-Butanone (MEK)	ND		5.00	1	07/10/2023 01:42	WG2091714
2-Hexanone	ND	J4	5.00	1	07/10/2023 01:42	WG2091714
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 01:42	WG2091714
Acetone	ND		10.0	1	07/10/2023 01:42	WG2091714
Acrylonitrile	ND		20.0	1	07/10/2023 01:42	WG2091714
Benzene	ND		1.00	1	07/10/2023 01:42	WG2091714
Bromochloromethane	ND		1.00	1	07/10/2023 01:42	WG2091714
Bromodichloromethane	ND		1.00	1	07/10/2023 01:42	WG2091714
Bromoform	ND		1.00	1	07/10/2023 01:42	WG2091714
Bromomethane	ND		1.00	1	07/10/2023 01:42	WG2091714
Carbon disulfide	ND		1.00	1	07/10/2023 01:42	WG2091714
Carbon tetrachloride	ND		1.00	1	07/10/2023 01:42	WG2091714
Chlorobenzene	ND		1.00	1	07/10/2023 01:42	WG2091714
Chloroethane	ND		1.00	1	07/10/2023 01:42	WG2091714
Chloroform	ND		1.00	1	07/10/2023 01:42	WG2091714
Chloromethane	ND		1.00	1	07/10/2023 01:42	WG2091714
Dibromochloromethane	ND		1.00	1	07/10/2023 01:42	WG2091714
Dibromomethane	ND		1.00	1	07/10/2023 01:42	WG2091714

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/10/2023 01:42	WG2091714	¹ Cp
Iodomethane	ND		1.00	1	07/10/2023 01:42	WG2091714	² Tc
Methylene Chloride	ND		1.07	1	07/10/2023 01:42	WG2091714	³ Ss
Styrene	ND		1.00	1	07/10/2023 01:42	WG2091714	⁴ Cn
Tetrachloroethene	ND		1.00	1	07/10/2023 01:42	WG2091714	⁵ Sr
Toluene	ND		1.00	1	07/10/2023 01:42	WG2091714	⁶ Qc
Trichloroethene	ND		1.00	1	07/10/2023 01:42	WG2091714	⁷ Gl
Trichlorofluoromethane	ND		1.00	1	07/10/2023 01:42	WG2091714	⁸ Al
Vinyl acetate	ND		5.00	1	07/10/2023 01:42	WG2091714	⁹ Sc
Vinyl chloride	ND		1.00	1	07/10/2023 01:42	WG2091714	
Xylenes, Total	ND		1.00	1	07/10/2023 01:42	WG2091714	
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 01:42	WG2091714	
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 01:42	WG2091714	
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 01:42	WG2091714	
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 01:42	WG2091714	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 01:42	WG2091714	
(S) 1,2-Dichloroethane-d4	113			70.0-130	07/10/2023 01:42	WG2091714	
(S) 4-Bromofluorobenzene	100			77.0-126	07/10/2023 01:42	WG2091714	
(S) Toluene-d8	111			80.0-120	07/10/2023 01:42	WG2091714	

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.11	su
Specific Conductance (on site)	636	umhos/cm
Temperature (on-site)	16	Deg. C
Turbidity (on-site)	9.5	NTU
Dissolved Oxygen (on-site)	2.5	mg/l
eH/ORP (On Site)	185.9	mV
Depth to water (DTW) (FROM TOC)	30.1	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	358		10.0	1	07/11/2023 23:00	WG2092845

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	289		10.0	1	07/11/2023 14:14	WG2092179
Alkalinity,Bicarbonate	289		10.0	1	07/11/2023 14:14	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 14:14	WG2092179

Sample Narrative:

L1632964-09 WG2092179: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 11:58	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.100	1	07/10/2023 12:05	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	21.7		3.00	1	07/17/2023 14:31	WG2095721
Sulfate	16.4		5.00	1	07/17/2023 14:31	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.62		1.00	1	07/19/2023 18:27	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 17:48	WG2091021
Barium,Total Recoverable	0.0860		0.00500	1	07/17/2023 17:48	WG2091021
Calcium, Total Recoverable	111		0.200	1	07/17/2023 17:48	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 17:48	WG2091021
Potassium, Total Recoverable	3.53		3.00	1	07/17/2023 17:48	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	2.20		0.200	1	07/17/2023 17:48	WG2091021
Manganese, Total Recoverable	0.217		0.00300	1	07/17/2023 17:48	WG2091021
Sodium, Total Recoverable	10.8		5.00	1	07/17/2023 17:48	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 17:48	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 17:48	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:31	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:31	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 22:31	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 22:31	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:31	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:31	WG2091027
Nickel, Total Recoverable	ND		0.00400	1	07/11/2023 22:31	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:31	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:31	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:31	WG2091027
Zinc, Total Recoverable	0.00919	J	0.00500	1	07/11/2023 22:31	WG2091027

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 02:04	WG2091714
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 02:04	WG2091714
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 02:04	WG2091714
1,1,2-Trichloroethane	ND		1.00	1	07/10/2023 02:04	WG2091714
1,1-Dichloroethane	ND		1.00	1	07/10/2023 02:04	WG2091714
1,1-Dichloroethene	ND		1.00	1	07/10/2023 02:04	WG2091714
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 02:04	WG2091714
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 02:04	WG2091714
1,2-Dibromoethane	ND		1.00	1	07/10/2023 02:04	WG2091714
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 02:04	WG2091714
1,2-Dichloroethane	ND		1.00	1	07/10/2023 02:04	WG2091714
1,2-Dichloropropane	ND		1.00	1	07/10/2023 02:04	WG2091714
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 02:04	WG2091714
2-Butanone (MEK)	ND		5.00	1	07/10/2023 02:04	WG2091714
2-Hexanone	ND	J4	5.00	1	07/10/2023 02:04	WG2091714
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 02:04	WG2091714
Acetone	ND		10.0	1	07/10/2023 02:04	WG2091714
Acrylonitrile	ND		20.0	1	07/10/2023 02:04	WG2091714
Benzene	ND		1.00	1	07/10/2023 02:04	WG2091714
Bromochloromethane	ND		1.00	1	07/10/2023 02:04	WG2091714
Bromodichloromethane	ND		1.00	1	07/10/2023 02:04	WG2091714
Bromoform	ND		1.00	1	07/10/2023 02:04	WG2091714
Bromomethane	ND		1.00	1	07/10/2023 02:04	WG2091714
Carbon disulfide	ND		1.00	1	07/10/2023 02:04	WG2091714
Carbon tetrachloride	ND		1.00	1	07/10/2023 02:04	WG2091714
Chlorobenzene	ND		1.00	1	07/10/2023 02:04	WG2091714
Chloroethane	ND		1.00	1	07/10/2023 02:04	WG2091714
Chloroform	ND		1.00	1	07/10/2023 02:04	WG2091714
Chloromethane	ND		1.00	1	07/10/2023 02:04	WG2091714
Dibromochloromethane	ND		1.00	1	07/10/2023 02:04	WG2091714
Dibromomethane	ND		1.00	1	07/10/2023 02:04	WG2091714

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/10/2023 02:04	WG2091714
Iodomethane	ND		1.00	1	07/10/2023 02:04	WG2091714
Methylene Chloride	ND		1.07	1	07/10/2023 02:04	WG2091714
Styrene	ND		1.00	1	07/10/2023 02:04	WG2091714
Tetrachloroethene	ND		1.00	1	07/10/2023 02:04	WG2091714
Toluene	ND		1.00	1	07/10/2023 02:04	WG2091714
Trichloroethene	ND		1.00	1	07/10/2023 02:04	WG2091714
Trichlorofluoromethane	ND		1.00	1	07/10/2023 02:04	WG2091714
Vinyl acetate	ND		5.00	1	07/10/2023 02:04	WG2091714
Vinyl chloride	ND		1.00	1	07/10/2023 02:04	WG2091714
Xylenes, Total	ND		1.00	1	07/10/2023 02:04	WG2091714
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 02:04	WG2091714
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 02:04	WG2091714
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 02:04	WG2091714
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 02:04	WG2091714
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 02:04	WG2091714
(S) 1,2-Dichloroethane-d4	114			70.0-130	07/10/2023 02:04	WG2091714
(S) 4-Bromofluorobenzene	98.6			77.0-126	07/10/2023 02:04	WG2091714
(S) Toluene-d8	114			80.0-120	07/10/2023 02:04	WG2091714

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.06	su
Specific Conductance (on site)	662	umhos/cm
Temperature (on-site)	16.9	Deg. C
Turbidity (on-site)	3.9	NTU
Dissolved Oxygen (on-site)	0.8	mg/l
eH/ORP (On Site)	191	mV
Depth to water (DTW) (FROM TOC)	32.8	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	347		10.0	1	07/12/2023 10:44	WG2092679

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	267		10.0	1	07/11/2023 14:18	WG2092179
Alkalinity,Bicarbonate	267		10.0	1	07/11/2023 14:18	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 14:18	WG2092179

Sample Narrative:

L1632964-10 WG2092179: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 11:59	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.82		0.100	1	07/10/2023 12:06	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	29.0		3.00	1	07/17/2023 14:41	WG2095721
Sulfate	17.1		5.00	1	07/17/2023 14:41	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	2.06		1.00	1	07/19/2023 19:16	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 17:51	WG2091021
Barium,Total Recoverable	0.140		0.00500	1	07/17/2023 17:51	WG2091021
Calcium, Total Recoverable	84.7		0.200	1	07/17/2023 17:51	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 17:51	WG2091021
Potassium, Total Recoverable	3.90		3.00	1	07/17/2023 17:51	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	8.11		0.200	1	07/17/2023 17:51	WG2091021
Manganese, Total Recoverable	2.31		0.00300	1	07/17/2023 17:51	WG2091021
Sodium, Total Recoverable	27.4		5.00	1	07/17/2023 17:51	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 17:51	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 17:51	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:34	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:34	WG2091027
Cadmium, Total Recoverable	0.00458		0.00100	1	07/11/2023 22:34	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 22:34	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:34	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:34	WG2091027
Nickel, Total Recoverable	0.0158		0.00400	1	07/11/2023 22:34	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:34	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:34	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:34	WG2091027
Zinc, Total Recoverable	0.0181	J	0.00500	1	07/11/2023 22:34	WG2091027

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 00:29	WG2091743
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 00:29	WG2091743
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 00:29	WG2091743
1,1,2-Trichloroethane	ND	J4	1.00	1	07/10/2023 00:29	WG2091743
1,1-Dichloroethane	ND		1.00	1	07/10/2023 00:29	WG2091743
1,1-Dichloroethene	ND		1.00	1	07/10/2023 00:29	WG2091743
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 00:29	WG2091743
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 00:29	WG2091743
1,2-Dibromoethane	ND		1.00	1	07/10/2023 00:29	WG2091743
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 00:29	WG2091743
1,2-Dichloroethane	ND		1.00	1	07/10/2023 00:29	WG2091743
1,2-Dichloropropane	ND		1.00	1	07/10/2023 00:29	WG2091743
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 00:29	WG2091743
2-Butanone (MEK)	ND		5.00	1	07/10/2023 00:29	WG2091743
2-Hexanone	ND		5.00	1	07/10/2023 00:29	WG2091743
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 00:29	WG2091743
Acetone	ND		10.0	1	07/10/2023 00:29	WG2091743
Acrylonitrile	ND		20.0	1	07/10/2023 00:29	WG2091743
Benzene	ND		1.00	1	07/10/2023 00:29	WG2091743
Bromochloromethane	ND		1.00	1	07/10/2023 00:29	WG2091743
Bromodichloromethane	ND		1.00	1	07/10/2023 00:29	WG2091743
Bromoform	ND		1.00	1	07/10/2023 00:29	WG2091743
Bromomethane	ND		1.00	1	07/10/2023 00:29	WG2091743
Carbon disulfide	ND		1.00	1	07/10/2023 00:29	WG2091743
Carbon tetrachloride	ND		1.00	1	07/10/2023 00:29	WG2091743
Chlorobenzene	ND		1.00	1	07/10/2023 00:29	WG2091743
Chloroethane	ND		1.00	1	07/10/2023 00:29	WG2091743
Chloroform	ND		1.00	1	07/10/2023 00:29	WG2091743
Chloromethane	ND		1.00	1	07/10/2023 00:29	WG2091743
Dibromochloromethane	ND		1.00	1	07/10/2023 00:29	WG2091743
Dibromomethane	ND	J4	1.00	1	07/10/2023 00:29	WG2091743

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/10/2023 00:29	WG2091743
Iodomethane	ND		1.00	1	07/10/2023 00:29	WG2091743
Methylene Chloride	ND		1.07	1	07/10/2023 00:29	WG2091743
Styrene	ND		1.00	1	07/10/2023 00:29	WG2091743
Tetrachloroethene	ND		1.00	1	07/10/2023 00:29	WG2091743
Toluene	ND		1.00	1	07/10/2023 00:29	WG2091743
Trichloroethene	ND		1.00	1	07/10/2023 00:29	WG2091743
Trichlorofluoromethane	ND		1.00	1	07/10/2023 00:29	WG2091743
Vinyl acetate	ND	<u>J3</u>	5.00	1	07/10/2023 00:29	WG2091743
Vinyl chloride	ND		1.00	1	07/10/2023 00:29	WG2091743
Xylenes, Total	ND		1.00	1	07/10/2023 00:29	WG2091743
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 00:29	WG2091743
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 00:29	WG2091743
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 00:29	WG2091743
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 00:29	WG2091743
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 00:29	WG2091743
(S) 1,2-Dichloroethane-d4	97.7			70.0-130	07/10/2023 00:29	WG2091743
(S) 4-Bromofluorobenzene	88.1			77.0-126	07/10/2023 00:29	WG2091743
(S) Toluene-d8	94.6			80.0-120	07/10/2023 00:29	WG2091743

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.38	su
Specific Conductance (on site)	408	umhos/cm
Temperature (on-site)	16	Deg. C
Turbidity (on-site)	10.2	NTU
Dissolved Oxygen (on-site)	3.4	mg/l
eH/ORP (On Site)	216.2	mV
Depth to water (DTW) (FROM TOC)	60.72	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	216		10.0	1	07/13/2023 09:01	WG2093314

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	149		10.0	1	07/11/2023 14:22	WG2092179
Alkalinity,Bicarbonate	149		10.0	1	07/11/2023 14:22	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 14:22	WG2092179

Sample Narrative:

L1632964-11 WG2092179: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 12:06	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.27		0.100	1	07/10/2023 12:08	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	22.9		3.00	1	07/17/2023 14:51	WG2095721
Sulfate	7.90		5.00	1	07/17/2023 14:51	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.19		1.00	1	07/19/2023 20:12	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 17:53	WG2091021
Barium, Total Recoverable	0.101		0.00500	1	07/17/2023 17:53	WG2091021
Calcium, Total Recoverable	55.2		0.200	1	07/17/2023 17:53	WG2091021
Iron, Total Recoverable	0.160		0.0600	1	07/17/2023 17:53	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 17:53	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	3.37		0.200	1	07/17/2023 17:53	WG2091021
Manganese, Total Recoverable	0.0420		0.00300	1	07/17/2023 17:53	WG2091021
Sodium, Total Recoverable	14.3		5.00	1	07/17/2023 17:53	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 17:53	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 17:53	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:37	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:37	WG2091027
Cadmium, Total Recoverable	0.00133		0.00100	1	07/11/2023 22:37	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 22:37	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:37	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:37	WG2091027
Nickel, Total Recoverable	0.00404		0.00400	1	07/11/2023 22:37	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:37	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:37	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:37	WG2091027
Zinc, Total Recoverable	0.00571	J	0.00500	1	07/11/2023 22:37	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 00:48	WG2091743
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 00:48	WG2091743
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 00:48	WG2091743
1,1,2-Trichloroethane	ND	J4	1.00	1	07/10/2023 00:48	WG2091743
1,1-Dichloroethane	ND		1.00	1	07/10/2023 00:48	WG2091743
1,1-Dichloroethene	ND		1.00	1	07/10/2023 00:48	WG2091743
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 00:48	WG2091743
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 00:48	WG2091743
1,2-Dibromoethane	ND		1.00	1	07/10/2023 00:48	WG2091743
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 00:48	WG2091743
1,2-Dichloroethane	ND		1.00	1	07/10/2023 00:48	WG2091743
1,2-Dichloropropane	ND		1.00	1	07/10/2023 00:48	WG2091743
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 00:48	WG2091743
2-Butanone (MEK)	ND		5.00	1	07/10/2023 00:48	WG2091743
2-Hexanone	ND		5.00	1	07/10/2023 00:48	WG2091743
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 00:48	WG2091743
Acetone	ND		10.0	1	07/10/2023 00:48	WG2091743
Acrylonitrile	ND		20.0	1	07/10/2023 00:48	WG2091743
Benzene	ND		1.00	1	07/10/2023 00:48	WG2091743
Bromochloromethane	ND		1.00	1	07/10/2023 00:48	WG2091743
Bromodichloromethane	ND		1.00	1	07/10/2023 00:48	WG2091743
Bromoform	ND		1.00	1	07/10/2023 00:48	WG2091743
Bromomethane	ND		1.00	1	07/10/2023 00:48	WG2091743
Carbon disulfide	ND		1.00	1	07/10/2023 00:48	WG2091743
Carbon tetrachloride	ND		1.00	1	07/10/2023 00:48	WG2091743
Chlorobenzene	ND		1.00	1	07/10/2023 00:48	WG2091743
Chloroethane	ND		1.00	1	07/10/2023 00:48	WG2091743
Chloroform	ND		1.00	1	07/10/2023 00:48	WG2091743
Chloromethane	ND		1.00	1	07/10/2023 00:48	WG2091743
Dibromochloromethane	ND		1.00	1	07/10/2023 00:48	WG2091743
Dibromomethane	ND	J4	1.00	1	07/10/2023 00:48	WG2091743

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/10/2023 00:48	WG2091743
Iodomethane	ND		1.00	1	07/10/2023 00:48	WG2091743
Methylene Chloride	ND		1.07	1	07/10/2023 00:48	WG2091743
Styrene	ND		1.00	1	07/10/2023 00:48	WG2091743
Tetrachloroethene	ND		1.00	1	07/10/2023 00:48	WG2091743
Toluene	ND		1.00	1	07/10/2023 00:48	WG2091743
Trichloroethene	ND		1.00	1	07/10/2023 00:48	WG2091743
Trichlorofluoromethane	ND		1.00	1	07/10/2023 00:48	WG2091743
Vinyl acetate	ND	<u>J3</u>	5.00	1	07/10/2023 00:48	WG2091743
Vinyl chloride	ND		1.00	1	07/10/2023 00:48	WG2091743
Xylenes, Total	ND		1.00	1	07/10/2023 00:48	WG2091743
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 00:48	WG2091743
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 00:48	WG2091743
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 00:48	WG2091743
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 00:48	WG2091743
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 00:48	WG2091743
(S) 1,2-Dichloroethane-d4	103			70.0-130	07/10/2023 00:48	WG2091743
(S) 4-Bromofluorobenzene	90.2			77.0-126	07/10/2023 00:48	WG2091743
(S) Toluene-d8	93.6			80.0-120	07/10/2023 00:48	WG2091743

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.56	su
Specific Conductance (on site)	757	umhos/cm
Temperature (on-site)	17.1	Deg. C
Turbidity (on-site)	11.4	NTU
Dissolved Oxygen (on-site)	0.4	mg/l
eH/ORP (On Site)	197.8	mV
Depth to water (DTW) (FROM TOC)	12.82	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	453		10.0	1	07/10/2023 15:39	WG2091908

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	363		10.0	1	07/11/2023 14:34	WG2092179
Alkalinity,Bicarbonate	363		10.0	1	07/11/2023 14:34	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 14:34	WG2092179

Sample Narrative:

L1632964-12 WG2092179: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 12:07	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.438		0.100	1	07/10/2023 12:10	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	24.1		3.00	1	07/17/2023 15:01	WG2095721
Sulfate	14.9		5.00	1	07/17/2023 15:01	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	2.55		1.00	1	07/19/2023 20:38	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 17:56	WG2091021
Barium, Total Recoverable	0.0852		0.00500	1	07/17/2023 17:56	WG2091021
Calcium, Total Recoverable	131		0.200	1	07/17/2023 17:56	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 17:56	WG2091021
Potassium, Total Recoverable	3.45		3.00	1	07/17/2023 17:56	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	5.90		0.200	1	07/17/2023 17:56	WG2091021
Manganese, Total Recoverable	3.57		0.00300	1	07/17/2023 17:56	WG2091021
Sodium, Total Recoverable	16.4		5.00	1	07/17/2023 17:56	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 17:56	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 17:56	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:41	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:41	WG2091027
Cadmium, Total Recoverable	0.00421		0.00100	1	07/11/2023 22:41	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 22:41	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:41	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:41	WG2091027
Nickel, Total Recoverable	0.0714		0.00400	1	07/11/2023 22:41	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:41	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:41	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:41	WG2091027
Zinc, Total Recoverable	0.162		0.00500	1	07/11/2023 22:41	WG2091027

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 01:08	WG2091743
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 01:08	WG2091743
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 01:08	WG2091743
1,1,2-Trichloroethane	ND	J4	1.00	1	07/10/2023 01:08	WG2091743
1,1-Dichloroethane	ND		1.00	1	07/10/2023 01:08	WG2091743
1,1-Dichloroethene	ND		1.00	1	07/10/2023 01:08	WG2091743
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 01:08	WG2091743
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 01:08	WG2091743
1,2-Dibromoethane	ND		1.00	1	07/10/2023 01:08	WG2091743
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 01:08	WG2091743
1,2-Dichloroethane	ND		1.00	1	07/10/2023 01:08	WG2091743
1,2-Dichloropropane	ND		1.00	1	07/10/2023 01:08	WG2091743
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 01:08	WG2091743
2-Butanone (MEK)	ND		5.00	1	07/10/2023 01:08	WG2091743
2-Hexanone	ND		5.00	1	07/10/2023 01:08	WG2091743
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 01:08	WG2091743
Acetone	ND		10.0	1	07/10/2023 01:08	WG2091743
Acrylonitrile	ND		20.0	1	07/10/2023 01:08	WG2091743
Benzene	ND		1.00	1	07/10/2023 01:08	WG2091743
Bromochloromethane	ND		1.00	1	07/10/2023 01:08	WG2091743
Bromodichloromethane	ND		1.00	1	07/10/2023 01:08	WG2091743
Bromoform	ND		1.00	1	07/10/2023 01:08	WG2091743
Bromomethane	ND		1.00	1	07/10/2023 01:08	WG2091743
Carbon disulfide	ND		1.00	1	07/10/2023 01:08	WG2091743
Carbon tetrachloride	ND		1.00	1	07/10/2023 01:08	WG2091743
Chlorobenzene	ND		1.00	1	07/10/2023 01:08	WG2091743
Chloroethane	ND		1.00	1	07/10/2023 01:08	WG2091743
Chloroform	ND		1.00	1	07/10/2023 01:08	WG2091743
Chloromethane	ND		1.00	1	07/10/2023 01:08	WG2091743
Dibromochloromethane	ND		1.00	1	07/10/2023 01:08	WG2091743
Dibromomethane	ND	J4	1.00	1	07/10/2023 01:08	WG2091743

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/10/2023 01:08	WG2091743	¹ Cp
Iodomethane	ND		1.00	1	07/10/2023 01:08	WG2091743	² Tc
Methylene Chloride	ND		1.07	1	07/10/2023 01:08	WG2091743	
Styrene	ND		1.00	1	07/10/2023 01:08	WG2091743	³ Ss
Tetrachloroethene	ND		1.00	1	07/10/2023 01:08	WG2091743	
Toluene	ND		1.00	1	07/10/2023 01:08	WG2091743	⁴ Cn
Trichloroethene	ND		1.00	1	07/10/2023 01:08	WG2091743	
Trichlorofluoromethane	ND		1.00	1	07/10/2023 01:08	WG2091743	
Vinyl acetate	ND	<u>J3</u>	5.00	1	07/10/2023 01:08	WG2091743	⁵ Sr
Vinyl chloride	ND		1.00	1	07/10/2023 01:08	WG2091743	
Xylenes, Total	ND		1.00	1	07/10/2023 01:08	WG2091743	⁶ Qc
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 01:08	WG2091743	
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 01:08	WG2091743	
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 01:08	WG2091743	⁷ Gl
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 01:08	WG2091743	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 01:08	WG2091743	⁸ Al
(S) 1,2-Dichloroethane-d4	98.5			70.0-130	07/10/2023 01:08	WG2091743	
(S) 4-Bromofluorobenzene	89.1			77.0-126	07/10/2023 01:08	WG2091743	
(S) Toluene-d8	97.8			80.0-120	07/10/2023 01:08	WG2091743	⁹ Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.22	su
Specific Conductance (on site)	671	umhos/cm
Temperature (on-site)	16	Deg. C
Turbidity (on-site)	2.4	NTU
Dissolved Oxygen (on-site)	0.2	mg/l
eH/ORP (On Site)	206.7	mV
Depth to water (DTW) (FROM TOC)	9.52	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	374		10.0	1	07/10/2023 15:39	WG2091908

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	318		10.0	1	07/11/2023 14:38	WG2092179
Alkalinity,Bicarbonate	318		10.0	1	07/11/2023 14:38	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 14:38	WG2092179

Sample Narrative:

L1632964-13 WG2092179: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 12:09	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.326		0.100	1	07/10/2023 12:13	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	25.6		3.00	1	07/17/2023 15:11	WG2095721
Sulfate	ND		5.00	1	07/17/2023 15:11	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.52		1.00	1	07/19/2023 20:51	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 17:59	WG2091021
Barium, Total Recoverable	0.0934		0.00500	1	07/17/2023 17:59	WG2091021
Calcium, Total Recoverable	115		0.200	1	07/17/2023 17:59	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 17:59	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 17:59	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	3.92		0.200	1	07/17/2023 17:59	WG2091021
Manganese, Total Recoverable	2.87		0.00300	1	07/17/2023 17:59	WG2091021
Sodium, Total Recoverable	11.0		5.00	1	07/17/2023 17:59	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 17:59	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 17:59	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:44	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:44	WG2091027
Cadmium, Total Recoverable	0.0126		0.00100	1	07/11/2023 22:44	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 22:44	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:44	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:44	WG2091027
Nickel, Total Recoverable	0.0480		0.00400	1	07/11/2023 22:44	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:44	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:44	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:44	WG2091027
Zinc, Total Recoverable	0.0802		0.00500	1	07/11/2023 22:44	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 01:28	WG2091743
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 01:28	WG2091743
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 01:28	WG2091743
1,1,2-Trichloroethane	ND	J4	1.00	1	07/10/2023 01:28	WG2091743
1,1-Dichloroethane	ND		1.00	1	07/10/2023 01:28	WG2091743
1,1-Dichloroethene	ND		1.00	1	07/10/2023 01:28	WG2091743
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 01:28	WG2091743
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 01:28	WG2091743
1,2-Dibromoethane	ND		1.00	1	07/10/2023 01:28	WG2091743
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 01:28	WG2091743
1,2-Dichloroethane	ND		1.00	1	07/10/2023 01:28	WG2091743
1,2-Dichloropropane	ND		1.00	1	07/10/2023 01:28	WG2091743
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 01:28	WG2091743
2-Butanone (MEK)	ND		5.00	1	07/10/2023 01:28	WG2091743
2-Hexanone	ND		5.00	1	07/10/2023 01:28	WG2091743
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 01:28	WG2091743
Acetone	ND		10.0	1	07/10/2023 01:28	WG2091743
Acrylonitrile	ND		20.0	1	07/10/2023 01:28	WG2091743
Benzene	ND		1.00	1	07/10/2023 01:28	WG2091743
Bromochloromethane	ND		1.00	1	07/10/2023 01:28	WG2091743
Bromodichloromethane	ND		1.00	1	07/10/2023 01:28	WG2091743
Bromoform	ND		1.00	1	07/10/2023 01:28	WG2091743
Bromomethane	ND		1.00	1	07/10/2023 01:28	WG2091743
Carbon disulfide	ND		1.00	1	07/10/2023 01:28	WG2091743
Carbon tetrachloride	ND		1.00	1	07/10/2023 01:28	WG2091743
Chlorobenzene	ND		1.00	1	07/10/2023 01:28	WG2091743
Chloroethane	ND		1.00	1	07/10/2023 01:28	WG2091743
Chloroform	ND		1.00	1	07/10/2023 01:28	WG2091743
Chloromethane	ND		1.00	1	07/10/2023 01:28	WG2091743
Dibromochloromethane	ND		1.00	1	07/10/2023 01:28	WG2091743
Dibromomethane	ND	J4	1.00	1	07/10/2023 01:28	WG2091743

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/10/2023 01:28	WG2091743	¹ Cp
Iodomethane	ND		1.00	1	07/10/2023 01:28	WG2091743	² Tc
Methylene Chloride	ND		1.07	1	07/10/2023 01:28	WG2091743	
Styrene	ND		1.00	1	07/10/2023 01:28	WG2091743	³ Ss
Tetrachloroethene	ND		1.00	1	07/10/2023 01:28	WG2091743	
Toluene	ND		1.00	1	07/10/2023 01:28	WG2091743	⁴ Cn
Trichloroethene	ND		1.00	1	07/10/2023 01:28	WG2091743	
Trichlorofluoromethane	ND		1.00	1	07/10/2023 01:28	WG2091743	
Vinyl acetate	ND	<u>J3</u>	5.00	1	07/10/2023 01:28	WG2091743	⁵ Sr
Vinyl chloride	ND		1.00	1	07/10/2023 01:28	WG2091743	
Xylenes, Total	ND		1.00	1	07/10/2023 01:28	WG2091743	⁶ Qc
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 01:28	WG2091743	
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 01:28	WG2091743	
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 01:28	WG2091743	⁷ Gl
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 01:28	WG2091743	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 01:28	WG2091743	⁸ Al
(S) 1,2-Dichloroethane-d4	97.6			70.0-130	07/10/2023 01:28	WG2091743	
(S) 4-Bromofluorobenzene	86.4			77.0-126	07/10/2023 01:28	WG2091743	
(S) Toluene-d8	94.1			80.0-120	07/10/2023 01:28	WG2091743	⁹ Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.92	su
Specific Conductance (on site)	348.6	umhos/cm
Temperature (on-site)	15.3	Deg. C
Turbidity (on-site)	0.13	NTU
Dissolved Oxygen (on-site)	7.22	mg/l
eH/ORP (On Site)	180.6	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	193		10.0	1	07/11/2023 23:00	WG2092845

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	132		10.0	1	07/11/2023 14:42	WG2092179
Alkalinity,Bicarbonate	132		10.0	1	07/11/2023 14:42	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 14:42	WG2092179

Sample Narrative:

L1632964-14 WG2092179: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 12:10	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	5.80		0.100	5	07/10/2023 12:18	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	9.08		3.00	1	07/17/2023 15:21	WG2095721
Sulfate	ND		5.00	1	07/17/2023 15:21	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/19/2023 21:04	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 18:02	WG2091021
Barium, Total Recoverable	0.0533		0.00500	1	07/17/2023 18:02	WG2091021
Calcium, Total Recoverable	50.5		0.200	1	07/17/2023 18:02	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 18:02	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 18:02	WG2091021
Magnesium, Total Recoverable	1.51		0.200	1	07/17/2023 18:02	WG2091021

WILDCAT CREEK SW

Collected date/time: 07/06/23 15:30

SAMPLE RESULTS - 14

L1632964

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Manganese, Total Recoverable	ND		0.00300	1	07/17/2023 18:02	WG2091021
Sodium, Total Recoverable	10.8		5.00	1	07/17/2023 18:02	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 18:02	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 18:02	WG2091021

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:47	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:47	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 22:47	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 22:47	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:47	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:47	WG2091027
Nickel, Total Recoverable	ND		0.00400	1	07/11/2023 22:47	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:47	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:47	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:47	WG2091027
Zinc, Total Recoverable	ND		0.00500	1	07/11/2023 22:47	WG2091027

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 01:47	WG2091743
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 01:47	WG2091743
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 01:47	WG2091743
1,1,2-Trichloroethane	ND	J4	1.00	1	07/10/2023 01:47	WG2091743
1,1-Dichloroethane	ND		1.00	1	07/10/2023 01:47	WG2091743
1,1-Dichloroethene	ND		1.00	1	07/10/2023 01:47	WG2091743
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 01:47	WG2091743
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 01:47	WG2091743
1,2-Dibromoethane	ND		1.00	1	07/10/2023 01:47	WG2091743
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 01:47	WG2091743
1,2-Dichloroethane	ND		1.00	1	07/10/2023 01:47	WG2091743
1,2-Dichloropropane	ND		1.00	1	07/10/2023 01:47	WG2091743
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 01:47	WG2091743
2-Butanone (MEK)	ND		5.00	1	07/10/2023 01:47	WG2091743
2-Hexanone	ND		5.00	1	07/10/2023 01:47	WG2091743
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 01:47	WG2091743
Acetone	ND		10.0	1	07/10/2023 01:47	WG2091743
Acrylonitrile	ND		20.0	1	07/10/2023 01:47	WG2091743
Benzene	ND		1.00	1	07/10/2023 01:47	WG2091743
Bromochloromethane	ND		1.00	1	07/10/2023 01:47	WG2091743
Bromodichloromethane	ND		1.00	1	07/10/2023 01:47	WG2091743
Bromoform	ND		1.00	1	07/10/2023 01:47	WG2091743
Bromomethane	ND		1.00	1	07/10/2023 01:47	WG2091743
Carbon disulfide	ND		1.00	1	07/10/2023 01:47	WG2091743
Carbon tetrachloride	ND		1.00	1	07/10/2023 01:47	WG2091743
Chlorobenzene	ND		1.00	1	07/10/2023 01:47	WG2091743
Chloroethane	ND		1.00	1	07/10/2023 01:47	WG2091743
Chloroform	ND		1.00	1	07/10/2023 01:47	WG2091743
Chloromethane	ND		1.00	1	07/10/2023 01:47	WG2091743
Dibromochloromethane	ND		1.00	1	07/10/2023 01:47	WG2091743
Dibromomethane	ND	J4	1.00	1	07/10/2023 01:47	WG2091743
Ethylbenzene	ND		1.00	1	07/10/2023 01:47	WG2091743

WILDCAT CREEK SW

SAMPLE RESULTS - 14

Collected date/time: 07/06/23 15:30

L1632964

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Iodomethane	ND		1.00	1	07/10/2023 01:47	WG2091743
Methylene Chloride	ND		1.07	1	07/10/2023 01:47	WG2091743
Styrene	ND		1.00	1	07/10/2023 01:47	WG2091743
Tetrachloroethene	ND		1.00	1	07/10/2023 01:47	WG2091743
Toluene	ND		1.00	1	07/10/2023 01:47	WG2091743
Trichloroethene	ND		1.00	1	07/10/2023 01:47	WG2091743
Trichlorofluoromethane	ND		1.00	1	07/10/2023 01:47	WG2091743
Vinyl acetate	ND	<u>J3</u>	5.00	1	07/10/2023 01:47	WG2091743
Vinyl chloride	ND		1.00	1	07/10/2023 01:47	WG2091743
Xylenes, Total	ND		1.00	1	07/10/2023 01:47	WG2091743
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 01:47	WG2091743
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 01:47	WG2091743
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 01:47	WG2091743
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 01:47	WG2091743
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 01:47	WG2091743
(S) 1,2-Dichloroethane-d4	100			70.0-130	07/10/2023 01:47	WG2091743
(S) 4-Bromofluorobenzene	91.2			77.0-126	07/10/2023 01:47	WG2091743
(S) Toluene-d8	94.5			80.0-120	07/10/2023 01:47	WG2091743

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.77	su
Specific Conductance (on site)	551	umhos/cm
Temperature (on-site)	16.9	Deg. C
Turbidity (on-site)	3.8	NTU
Dissolved Oxygen (on-site)	2.5	mg/l
eH/ORP (On Site)	203.8	mV
Depth to water (DTW) (FROM TOC)	49.46	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	291		10.0	1	07/11/2023 23:00	WG2092845

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	239		10.0	1	07/11/2023 14:48	WG2092179
Alkalinity,Bicarbonate	239		10.0	1	07/11/2023 14:48	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 14:48	WG2092179

Sample Narrative:

L1632964-15 WG2092179: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 12:12	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.12		0.100	1	07/10/2023 12:19	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	22.8		3.00	1	07/17/2023 15:31	WG2095721
Sulfate	ND		5.00	1	07/17/2023 15:31	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.29		1.00	1	07/19/2023 21:21	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 18:04	WG2091021
Barium,Total Recoverable	0.0623		0.00500	1	07/17/2023 18:04	WG2091021
Calcium, Total Recoverable	91.0		0.200	1	07/17/2023 18:04	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 18:04	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 18:04	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	3.89		0.200	1	07/17/2023 18:04	WG2091021
Manganese, Total Recoverable	0.0703		0.00300	1	07/17/2023 18:04	WG2091021
Sodium, Total Recoverable	9.55		5.00	1	07/17/2023 18:04	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 18:04	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 18:04	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 22:51	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 22:51	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 22:51	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 22:51	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 22:51	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 22:51	WG2091027
Nickel, Total Recoverable	ND		0.00400	1	07/11/2023 22:51	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 22:51	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 22:51	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 22:51	WG2091027
Zinc, Total Recoverable	0.00811	J	0.00500	1	07/11/2023 22:51	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 02:07	WG2091743
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 02:07	WG2091743
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 02:07	WG2091743
1,1,2-Trichloroethane	ND	J4	1.00	1	07/10/2023 02:07	WG2091743
1,1-Dichloroethane	ND		1.00	1	07/10/2023 02:07	WG2091743
1,1-Dichloroethene	ND		1.00	1	07/10/2023 02:07	WG2091743
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 02:07	WG2091743
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 02:07	WG2091743
1,2-Dibromoethane	ND		1.00	1	07/10/2023 02:07	WG2091743
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 02:07	WG2091743
1,2-Dichloroethane	ND		1.00	1	07/10/2023 02:07	WG2091743
1,2-Dichloropropane	ND		1.00	1	07/10/2023 02:07	WG2091743
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 02:07	WG2091743
2-Butanone (MEK)	ND		5.00	1	07/10/2023 02:07	WG2091743
2-Hexanone	ND		5.00	1	07/10/2023 02:07	WG2091743
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 02:07	WG2091743
Acetone	ND		10.0	1	07/10/2023 02:07	WG2091743
Acrylonitrile	ND		20.0	1	07/10/2023 02:07	WG2091743
Benzene	ND		1.00	1	07/10/2023 02:07	WG2091743
Bromochloromethane	ND		1.00	1	07/10/2023 02:07	WG2091743
Bromodichloromethane	ND		1.00	1	07/10/2023 02:07	WG2091743
Bromoform	ND		1.00	1	07/10/2023 02:07	WG2091743
Bromomethane	ND		1.00	1	07/10/2023 02:07	WG2091743
Carbon disulfide	ND		1.00	1	07/10/2023 02:07	WG2091743
Carbon tetrachloride	ND		1.00	1	07/10/2023 02:07	WG2091743
Chlorobenzene	ND		1.00	1	07/10/2023 02:07	WG2091743
Chloroethane	ND		1.00	1	07/10/2023 02:07	WG2091743
Chloroform	ND		1.00	1	07/10/2023 02:07	WG2091743
Chloromethane	ND		1.00	1	07/10/2023 02:07	WG2091743
Dibromochloromethane	ND		1.00	1	07/10/2023 02:07	WG2091743
Dibromomethane	ND	J4	1.00	1	07/10/2023 02:07	WG2091743

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/10/2023 02:07	WG2091743
Iodomethane	ND		1.00	1	07/10/2023 02:07	WG2091743
Methylene Chloride	ND		1.07	1	07/10/2023 02:07	WG2091743
Styrene	ND		1.00	1	07/10/2023 02:07	WG2091743
Tetrachloroethene	ND		1.00	1	07/10/2023 02:07	WG2091743
Toluene	ND		1.00	1	07/10/2023 02:07	WG2091743
Trichloroethene	ND		1.00	1	07/10/2023 02:07	WG2091743
Trichlorofluoromethane	ND		1.00	1	07/10/2023 02:07	WG2091743
Vinyl acetate	ND	<u>J3</u>	5.00	1	07/10/2023 02:07	WG2091743
Vinyl chloride	ND		1.00	1	07/10/2023 02:07	WG2091743
Xylenes, Total	ND		1.00	1	07/10/2023 02:07	WG2091743
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 02:07	WG2091743
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 02:07	WG2091743
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 02:07	WG2091743
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 02:07	WG2091743
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 02:07	WG2091743
(S) 1,2-Dichloroethane-d4	102			70.0-130	07/10/2023 02:07	WG2091743
(S) 4-Bromofluorobenzene	90.1			77.0-126	07/10/2023 02:07	WG2091743
(S) Toluene-d8	93.0			80.0-120	07/10/2023 02:07	WG2091743

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.01	su
Specific Conductance (on site)	436	umhos/cm
Temperature (on-site)	16.4	Deg. C
Turbidity (on-site)	3.5	NTU
Dissolved Oxygen (on-site)	6.6	mg/l
eH/ORP (On Site)	182.7	mV
Depth to water (DTW) (FROM TOC)	59.24	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	235		10.0	1	07/10/2023 15:39	WG2091908

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	213		10.0	1	07/11/2023 14:54	WG2092179
Alkalinity,Bicarbonate	213		10.0	1	07/11/2023 14:54	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 14:54	WG2092179

Sample Narrative:

L1632964-16 WG2092179: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 12:13	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.969		0.100	1	07/10/2023 12:20	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	5.05		3.00	1	07/17/2023 15:41	WG2095721
Sulfate	ND		5.00	1	07/17/2023 15:41	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/19/2023 22:08	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 18:07	WG2091021
Barium,Total Recoverable	0.0235		0.00500	1	07/17/2023 18:07	WG2091021
Calcium, Total Recoverable	80.9		0.200	1	07/17/2023 18:07	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 18:07	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 18:07	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	1.13		0.200	1	07/17/2023 18:07	WG2091021
Manganese, Total Recoverable	ND		0.00300	1	07/17/2023 18:07	WG2091021
Sodium, Total Recoverable	ND		5.00	1	07/17/2023 18:07	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 18:07	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 18:07	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 23:00	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 23:00	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 23:00	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 23:00	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 23:00	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 23:00	WG2091027
Nickel, Total Recoverable	ND		0.00400	1	07/11/2023 23:00	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 23:00	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 23:00	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 23:00	WG2091027
Zinc, Total Recoverable	0.00607	J	0.00500	1	07/11/2023 23:00	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 02:26	WG2091743
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 02:26	WG2091743
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 02:26	WG2091743
1,1,2-Trichloroethane	ND	J4	1.00	1	07/10/2023 02:26	WG2091743
1,1-Dichloroethane	ND		1.00	1	07/10/2023 02:26	WG2091743
1,1-Dichloroethene	ND		1.00	1	07/10/2023 02:26	WG2091743
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 02:26	WG2091743
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 02:26	WG2091743
1,2-Dibromoethane	ND		1.00	1	07/10/2023 02:26	WG2091743
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 02:26	WG2091743
1,2-Dichloroethane	ND		1.00	1	07/10/2023 02:26	WG2091743
1,2-Dichloropropane	ND		1.00	1	07/10/2023 02:26	WG2091743
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 02:26	WG2091743
2-Butanone (MEK)	ND		5.00	1	07/10/2023 02:26	WG2091743
2-Hexanone	ND		5.00	1	07/10/2023 02:26	WG2091743
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 02:26	WG2091743
Acetone	ND		10.0	1	07/10/2023 02:26	WG2091743
Acrylonitrile	ND		20.0	1	07/10/2023 02:26	WG2091743
Benzene	ND		1.00	1	07/10/2023 02:26	WG2091743
Bromochloromethane	ND		1.00	1	07/10/2023 02:26	WG2091743
Bromodichloromethane	ND		1.00	1	07/10/2023 02:26	WG2091743
Bromoform	ND		1.00	1	07/10/2023 02:26	WG2091743
Bromomethane	ND		1.00	1	07/10/2023 02:26	WG2091743
Carbon disulfide	ND		1.00	1	07/10/2023 02:26	WG2091743
Carbon tetrachloride	ND		1.00	1	07/10/2023 02:26	WG2091743
Chlorobenzene	ND		1.00	1	07/10/2023 02:26	WG2091743
Chloroethane	ND		1.00	1	07/10/2023 02:26	WG2091743
Chloroform	ND		1.00	1	07/10/2023 02:26	WG2091743
Chloromethane	ND		1.00	1	07/10/2023 02:26	WG2091743
Dibromochloromethane	ND		1.00	1	07/10/2023 02:26	WG2091743
Dibromomethane	ND	J4	1.00	1	07/10/2023 02:26	WG2091743

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/10/2023 02:26	WG2091743
Iodomethane	ND		1.00	1	07/10/2023 02:26	WG2091743
Methylene Chloride	ND		1.07	1	07/10/2023 02:26	WG2091743
Styrene	ND		1.00	1	07/10/2023 02:26	WG2091743
Tetrachloroethene	ND		1.00	1	07/10/2023 02:26	WG2091743
Toluene	ND		1.00	1	07/10/2023 02:26	WG2091743
Trichloroethene	ND		1.00	1	07/10/2023 02:26	WG2091743
Trichlorofluoromethane	ND		1.00	1	07/10/2023 02:26	WG2091743
Vinyl acetate	ND	<u>J3</u>	5.00	1	07/10/2023 02:26	WG2091743
Vinyl chloride	ND		1.00	1	07/10/2023 02:26	WG2091743
Xylenes, Total	ND		1.00	1	07/10/2023 02:26	WG2091743
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 02:26	WG2091743
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 02:26	WG2091743
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 02:26	WG2091743
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 02:26	WG2091743
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 02:26	WG2091743
(S) 1,2-Dichloroethane-d4	102			70.0-130	07/10/2023 02:26	WG2091743
(S) 4-Bromofluorobenzene	90.8			77.0-126	07/10/2023 02:26	WG2091743
(S) Toluene-d8	93.7			80.0-120	07/10/2023 02:26	WG2091743

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Dissolved Solids	225		10.0	1	07/10/2023 15:39	WG2091908

1 Cp

2 Tc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Alkalinity	217		10.0	1	07/11/2023 14:59	WG2092179
Alkalinity,Bicarbonate	217		10.0	1	07/11/2023 14:59	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 14:59	WG2092179

3 Ss

4 Cn

5 Sr

Sample Narrative:

L1632964-17 WG2092179: Endpoint pH 4.5 Headspace

6 Qc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 12:15	WG2091549

7 Gl

8 Al

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Nitrate-Nitrite	1.02		0.100	1	07/10/2023 12:22	WG2091044

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Chloride	4.72		3.00	1	07/17/2023 15:51	WG2095721
Sulfate	ND		5.00	1	07/17/2023 15:51	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
TOC	ND		1.00	1	07/19/2023 22:20	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 18:15	WG2091021
Barium,Total Recoverable	0.0217		0.00500	1	07/17/2023 18:15	WG2091021
Calcium, Total Recoverable	80.9		0.200	1	07/17/2023 18:15	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 18:15	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 18:15	WG2091021
Magnesium, Total Recoverable	1.15		0.200	1	07/17/2023 18:15	WG2091021
Manganese,Total Recoverable	ND		0.00300	1	07/17/2023 18:15	WG2091021
Sodium,Total Recoverable	ND		5.00	1	07/17/2023 18:15	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 18:15	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 18:15	WG2091021

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 23:04	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 23:04	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 23:04	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 23:04	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 23:04	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 23:04	WG2091027
Nickel, Total Recoverable	ND		0.00400	1	07/11/2023 23:04	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 23:04	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 23:04	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 23:04	WG2091027
Zinc, Total Recoverable	ND		0.00500	1	07/11/2023 23:04	WG2091027

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 02:46	WG2091743
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 02:46	WG2091743
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 02:46	WG2091743
1,1,2-Trichloroethane	ND	J4	1.00	1	07/10/2023 02:46	WG2091743
1,1-Dichloroethane	ND		1.00	1	07/10/2023 02:46	WG2091743
1,1-Dichloroethene	ND		1.00	1	07/10/2023 02:46	WG2091743
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 02:46	WG2091743
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 02:46	WG2091743
1,2-Dibromoethane	ND		1.00	1	07/10/2023 02:46	WG2091743
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 02:46	WG2091743
1,2-Dichloroethane	ND		1.00	1	07/10/2023 02:46	WG2091743
1,2-Dichloropropane	ND		1.00	1	07/10/2023 02:46	WG2091743
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 02:46	WG2091743
2-Butanone (MEK)	ND		5.00	1	07/10/2023 02:46	WG2091743
2-Hexanone	ND		5.00	1	07/10/2023 02:46	WG2091743
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 02:46	WG2091743
Acetone	ND		10.0	1	07/10/2023 02:46	WG2091743
Acrylonitrile	ND		20.0	1	07/10/2023 02:46	WG2091743
Benzene	ND		1.00	1	07/10/2023 02:46	WG2091743
Bromochloromethane	ND		1.00	1	07/10/2023 02:46	WG2091743
Bromodichloromethane	ND		1.00	1	07/10/2023 02:46	WG2091743
Bromoform	ND		1.00	1	07/10/2023 02:46	WG2091743
Bromomethane	ND		1.00	1	07/10/2023 02:46	WG2091743
Carbon disulfide	ND		1.00	1	07/10/2023 02:46	WG2091743
Carbon tetrachloride	ND		1.00	1	07/10/2023 02:46	WG2091743
Chlorobenzene	ND		1.00	1	07/10/2023 02:46	WG2091743
Chloroethane	ND		1.00	1	07/10/2023 02:46	WG2091743
Chloroform	ND		1.00	1	07/10/2023 02:46	WG2091743
Chloromethane	ND		1.00	1	07/10/2023 02:46	WG2091743
Dibromochloromethane	ND		1.00	1	07/10/2023 02:46	WG2091743
Dibromomethane	ND	J4	1.00	1	07/10/2023 02:46	WG2091743
Ethylbenzene	ND		1.00	1	07/10/2023 02:46	WG2091743
Iodomethane	ND		1.00	1	07/10/2023 02:46	WG2091743
Methylene Chloride	ND		1.07	1	07/10/2023 02:46	WG2091743
Styrene	ND		1.00	1	07/10/2023 02:46	WG2091743
Tetrachloroethene	ND		1.00	1	07/10/2023 02:46	WG2091743
Toluene	ND		1.00	1	07/10/2023 02:46	WG2091743
Trichloroethene	ND		1.00	1	07/10/2023 02:46	WG2091743
Trichlorofluoromethane	ND		1.00	1	07/10/2023 02:46	WG2091743
Vinyl acetate	ND	J3	5.00	1	07/10/2023 02:46	WG2091743
Vinyl chloride	ND		1.00	1	07/10/2023 02:46	WG2091743

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Xylenes, Total	ND		1.00	1	07/10/2023 02:46	WG2091743
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 02:46	WG2091743
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 02:46	WG2091743
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 02:46	WG2091743
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 02:46	WG2091743
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 02:46	WG2091743
(S) 1,2-Dichloroethane-d4	102			70.0-130	07/10/2023 02:46	WG2091743
(S) 4-Bromofluorobenzene	93.4			77.0-126	07/10/2023 02:46	WG2091743
(S) Toluene-d8	96.5			80.0-120	07/10/2023 02:46	WG2091743

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.75	su
Specific Conductance (on site)	633	umhos/cm
Temperature (on-site)	17.2	Deg. C
Turbidity (on-site)	2.6	NTU
Dissolved Oxygen (on-site)	1.1	mg/l
eH/ORP (On Site)	185.1	mV
Depth to water (DTW) (FROM TOC)	17.15	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	351		10.0	1	07/10/2023 15:39	WG2091908

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	316		10.0	1	07/11/2023 15:05	WG2092179
Alkalinity,Bicarbonate	316		10.0	1	07/11/2023 15:05	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 15:05	WG2092179

Sample Narrative:

L1632964-18 WG2092179: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 12:16	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.26		0.100	2	07/10/2023 12:23	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	13.5		3.00	1	07/17/2023 16:20	WG2095721
Sulfate	ND		5.00	1	07/17/2023 16:20	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.14		1.00	1	07/19/2023 22:32	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 18:18	WG2091021
Barium,Total Recoverable	0.0680		0.00500	1	07/17/2023 18:18	WG2091021
Calcium, Total Recoverable	117		0.200	1	07/17/2023 18:18	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 18:18	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 18:18	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	2.05		0.200	1	07/17/2023 18:18	WG2091021
Manganese, Total Recoverable	ND		0.00300	1	07/17/2023 18:18	WG2091021
Sodium, Total Recoverable	8.69		5.00	1	07/17/2023 18:18	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 18:18	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 18:18	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 23:07	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 23:07	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 23:07	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 23:07	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 23:07	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 23:07	WG2091027
Nickel, Total Recoverable	ND		0.00400	1	07/11/2023 23:07	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 23:07	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 23:07	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 23:07	WG2091027
Zinc, Total Recoverable	0.0330		0.00500	1	07/11/2023 23:07	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 03:06	WG2091743
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 03:06	WG2091743
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 03:06	WG2091743
1,1,2-Trichloroethane	ND	J4	1.00	1	07/10/2023 03:06	WG2091743
1,1-Dichloroethane	ND		1.00	1	07/10/2023 03:06	WG2091743
1,1-Dichloroethene	ND		1.00	1	07/10/2023 03:06	WG2091743
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 03:06	WG2091743
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 03:06	WG2091743
1,2-Dibromoethane	ND		1.00	1	07/10/2023 03:06	WG2091743
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 03:06	WG2091743
1,2-Dichloroethane	ND		1.00	1	07/10/2023 03:06	WG2091743
1,2-Dichloropropane	ND		1.00	1	07/10/2023 03:06	WG2091743
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 03:06	WG2091743
2-Butanone (MEK)	ND		5.00	1	07/10/2023 03:06	WG2091743
2-Hexanone	ND		5.00	1	07/10/2023 03:06	WG2091743
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 03:06	WG2091743
Acetone	ND		10.0	1	07/10/2023 03:06	WG2091743
Acrylonitrile	ND		20.0	1	07/10/2023 03:06	WG2091743
Benzene	ND		1.00	1	07/10/2023 03:06	WG2091743
Bromochloromethane	ND		1.00	1	07/10/2023 03:06	WG2091743
Bromodichloromethane	ND		1.00	1	07/10/2023 03:06	WG2091743
Bromoform	ND		1.00	1	07/10/2023 03:06	WG2091743
Bromomethane	ND		1.00	1	07/10/2023 03:06	WG2091743
Carbon disulfide	ND		1.00	1	07/10/2023 03:06	WG2091743
Carbon tetrachloride	ND		1.00	1	07/10/2023 03:06	WG2091743
Chlorobenzene	ND		1.00	1	07/10/2023 03:06	WG2091743
Chloroethane	ND		1.00	1	07/10/2023 03:06	WG2091743
Chloroform	ND		1.00	1	07/10/2023 03:06	WG2091743
Chloromethane	ND		1.00	1	07/10/2023 03:06	WG2091743
Dibromochloromethane	ND		1.00	1	07/10/2023 03:06	WG2091743
Dibromomethane	ND	J4	1.00	1	07/10/2023 03:06	WG2091743

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/10/2023 03:06	WG2091743	¹ Cp
Iodomethane	ND		1.00	1	07/10/2023 03:06	WG2091743	² Tc
Methylene Chloride	ND		1.07	1	07/10/2023 03:06	WG2091743	
Styrene	ND		1.00	1	07/10/2023 03:06	WG2091743	³ Ss
Tetrachloroethene	ND		1.00	1	07/10/2023 03:06	WG2091743	
Toluene	ND		1.00	1	07/10/2023 03:06	WG2091743	⁴ Cn
Trichloroethene	ND		1.00	1	07/10/2023 03:06	WG2091743	
Trichlorofluoromethane	ND		1.00	1	07/10/2023 03:06	WG2091743	
Vinyl acetate	ND	<u>J3</u>	5.00	1	07/10/2023 03:06	WG2091743	⁵ Sr
Vinyl chloride	ND		1.00	1	07/10/2023 03:06	WG2091743	
Xylenes, Total	ND		1.00	1	07/10/2023 03:06	WG2091743	⁶ Qc
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 03:06	WG2091743	
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 03:06	WG2091743	
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 03:06	WG2091743	⁷ Gl
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 03:06	WG2091743	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 03:06	WG2091743	⁸ Al
(S) 1,2-Dichloroethane-d4	101			70.0-130	07/10/2023 03:06	WG2091743	
(S) 4-Bromofluorobenzene	89.4			77.0-126	07/10/2023 03:06	WG2091743	
(S) Toluene-d8	93.4			80.0-120	07/10/2023 03:06	WG2091743	⁹ Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.62	su
Specific Conductance (on site)	545	umhos/cm
Temperature (on-site)	17.2	Deg. C
Turbidity (on-site)	3.4	NTU
Dissolved Oxygen (on-site)	3.1	mg/l
eH/ORP (On Site)	187.1	mV
Depth to water (DTW) (FROM TOC)	19.62	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	286		10.0	1	07/10/2023 16:20	WG2092031

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	265		10.0	1	07/11/2023 15:12	WG2092179
Alkalinity,Bicarbonate	265		10.0	1	07/11/2023 15:12	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 15:12	WG2092179

Sample Narrative:

L1632964-19 WG2092179: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 12:18	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.28		0.100	1	07/10/2023 12:24	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	7.87		3.00	1	07/17/2023 16:30	WG2095721
Sulfate	ND		5.00	1	07/17/2023 16:30	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/19/2023 22:45	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 18:20	WG2091021
Barium, Total Recoverable	0.0712		0.00500	1	07/17/2023 18:20	WG2091021
Calcium, Total Recoverable	97.3		0.200	1	07/17/2023 18:20	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 18:20	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 18:20	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	2.86		0.200	1	07/17/2023 18:20	WG2091021
Manganese, Total Recoverable	ND		0.00300	1	07/17/2023 18:20	WG2091021
Sodium, Total Recoverable	5.02		5.00	1	07/17/2023 18:20	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 18:20	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 18:20	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 23:11	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 23:11	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 23:11	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 23:11	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 23:11	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 23:11	WG2091027
Nickel, Total Recoverable	ND		0.00400	1	07/11/2023 23:11	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 23:11	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 23:11	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 23:11	WG2091027
Zinc, Total Recoverable	0.0115	J	0.00500	1	07/11/2023 23:11	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 03:26	WG2091743
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 03:26	WG2091743
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 03:26	WG2091743
1,1,2-Trichloroethane	ND	J4	1.00	1	07/10/2023 03:26	WG2091743
1,1-Dichloroethane	ND		1.00	1	07/10/2023 03:26	WG2091743
1,1-Dichloroethene	ND		1.00	1	07/10/2023 03:26	WG2091743
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 03:26	WG2091743
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 03:26	WG2091743
1,2-Dibromoethane	ND		1.00	1	07/10/2023 03:26	WG2091743
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 03:26	WG2091743
1,2-Dichloroethane	ND		1.00	1	07/10/2023 03:26	WG2091743
1,2-Dichloropropane	ND		1.00	1	07/10/2023 03:26	WG2091743
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 03:26	WG2091743
2-Butanone (MEK)	ND		5.00	1	07/10/2023 03:26	WG2091743
2-Hexanone	ND		5.00	1	07/10/2023 03:26	WG2091743
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 03:26	WG2091743
Acetone	ND		10.0	1	07/10/2023 03:26	WG2091743
Acrylonitrile	ND		20.0	1	07/10/2023 03:26	WG2091743
Benzene	ND		1.00	1	07/10/2023 03:26	WG2091743
Bromochloromethane	ND		1.00	1	07/10/2023 03:26	WG2091743
Bromodichloromethane	ND		1.00	1	07/10/2023 03:26	WG2091743
Bromoform	ND		1.00	1	07/10/2023 03:26	WG2091743
Bromomethane	ND		1.00	1	07/10/2023 03:26	WG2091743
Carbon disulfide	ND		1.00	1	07/10/2023 03:26	WG2091743
Carbon tetrachloride	ND		1.00	1	07/10/2023 03:26	WG2091743
Chlorobenzene	ND		1.00	1	07/10/2023 03:26	WG2091743
Chloroethane	ND		1.00	1	07/10/2023 03:26	WG2091743
Chloroform	ND		1.00	1	07/10/2023 03:26	WG2091743
Chloromethane	ND		1.00	1	07/10/2023 03:26	WG2091743
Dibromochloromethane	ND		1.00	1	07/10/2023 03:26	WG2091743
Dibromomethane	ND	J4	1.00	1	07/10/2023 03:26	WG2091743

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/10/2023 03:26	WG2091743
Iodomethane	ND		1.00	1	07/10/2023 03:26	WG2091743
Methylene Chloride	ND		1.07	1	07/10/2023 03:26	WG2091743
Styrene	ND		1.00	1	07/10/2023 03:26	WG2091743
Tetrachloroethene	ND		1.00	1	07/10/2023 03:26	WG2091743
Toluene	ND		1.00	1	07/10/2023 03:26	WG2091743
Trichloroethene	ND		1.00	1	07/10/2023 03:26	WG2091743
Trichlorofluoromethane	ND		1.00	1	07/10/2023 03:26	WG2091743
Vinyl acetate	ND	<u>J3</u>	5.00	1	07/10/2023 03:26	WG2091743
Vinyl chloride	ND		1.00	1	07/10/2023 03:26	WG2091743
Xylenes, Total	ND		1.00	1	07/10/2023 03:26	WG2091743
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 03:26	WG2091743
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 03:26	WG2091743
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 03:26	WG2091743
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 03:26	WG2091743
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 03:26	WG2091743
(S) 1,2-Dichloroethane-d4	104			70.0-130	07/10/2023 03:26	WG2091743
(S) 4-Bromofluorobenzene	89.6			77.0-126	07/10/2023 03:26	WG2091743
(S) Toluene-d8	91.3			80.0-120	07/10/2023 03:26	WG2091743

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.13	su
Specific Conductance (on site)	607	umhos/cm
Temperature (on-site)	17.5	Deg. C
Turbidity (on-site)	3.8	NTU
Dissolved Oxygen (on-site)	0.9	mg/l
eH/ORP (On Site)	193.1	mV
Depth to water (DTW) (FROM TOC)	47.32	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	350		10.0	1	07/11/2023 22:00	WG2092790

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	302		10.0	1	07/11/2023 15:34	WG2092179
Alkalinity,Bicarbonate	302		10.0	1	07/11/2023 15:34	WG2092179
Alkalinity,Carbonate	ND		10.0	1	07/11/2023 15:34	WG2092179

Sample Narrative:

L1632964-20 WG2092179: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/09/2023 12:25	WG2091549

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.41		0.100	1	07/10/2023 12:26	WG2091044

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	13.1		3.00	1	07/17/2023 16:40	WG2095721
Sulfate	ND		5.00	1	07/17/2023 16:40	WG2095721

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/19/2023 22:57	WG2097397

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/17/2023 18:23	WG2091021
Barium, Total Recoverable	0.0572		0.00500	1	07/17/2023 18:23	WG2091021
Calcium, Total Recoverable	114		0.200	1	07/17/2023 18:23	WG2091021
Iron, Total Recoverable	ND		0.0600	1	07/17/2023 18:23	WG2091021
Potassium, Total Recoverable	ND		3.00	1	07/17/2023 18:23	WG2091021

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	1.97		0.200	1	07/17/2023 18:23	WG2091021
Manganese, Total Recoverable	ND		0.00300	1	07/17/2023 18:23	WG2091021
Sodium, Total Recoverable	6.61		5.00	1	07/17/2023 18:23	WG2091021
Lead, Total Recoverable	ND		0.00500	1	07/17/2023 18:23	WG2091021
Selenium, Total Recoverable	ND		0.0100	1	07/17/2023 18:23	WG2091021

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/11/2023 23:14	WG2091027
Beryllium, Total Recoverable	ND		0.00100	1	07/11/2023 23:14	WG2091027
Cadmium, Total Recoverable	ND		0.00100	1	07/11/2023 23:14	WG2091027
Cobalt, Total Recoverable	ND		0.00300	1	07/11/2023 23:14	WG2091027
Chromium, Total Recoverable	ND		0.00300	1	07/11/2023 23:14	WG2091027
Copper, Total Recoverable	ND		0.00400	1	07/11/2023 23:14	WG2091027
Nickel, Total Recoverable	ND		0.00400	1	07/11/2023 23:14	WG2091027
Antimony, Total Recoverable	ND		0.00200	1	07/11/2023 23:14	WG2091027
Thallium, Total Recoverable	ND		0.00100	1	07/11/2023 23:14	WG2091027
Vanadium, Total Recoverable	ND		0.00300	1	07/11/2023 23:14	WG2091027
Zinc, Total Recoverable	0.00957	J	0.00500	1	07/11/2023 23:14	WG2091027

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/10/2023 03:45	WG2091743
1,1,1-Trichloroethane	ND		1.00	1	07/10/2023 03:45	WG2091743
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/10/2023 03:45	WG2091743
1,1,2-Trichloroethane	ND	J4	1.00	1	07/10/2023 03:45	WG2091743
1,1-Dichloroethane	ND		1.00	1	07/10/2023 03:45	WG2091743
1,1-Dichloroethene	ND		1.00	1	07/10/2023 03:45	WG2091743
1,2,3-Trichloropropane	ND		1.00	1	07/10/2023 03:45	WG2091743
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/10/2023 03:45	WG2091743
1,2-Dibromoethane	ND		1.00	1	07/10/2023 03:45	WG2091743
1,2-Dichlorobenzene	ND		1.00	1	07/10/2023 03:45	WG2091743
1,2-Dichloroethane	ND		1.00	1	07/10/2023 03:45	WG2091743
1,2-Dichloropropane	ND		1.00	1	07/10/2023 03:45	WG2091743
1,4-Dichlorobenzene	ND		1.00	1	07/10/2023 03:45	WG2091743
2-Butanone (MEK)	ND		5.00	1	07/10/2023 03:45	WG2091743
2-Hexanone	ND		5.00	1	07/10/2023 03:45	WG2091743
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/10/2023 03:45	WG2091743
Acetone	ND		10.0	1	07/10/2023 03:45	WG2091743
Acrylonitrile	ND		20.0	1	07/10/2023 03:45	WG2091743
Benzene	ND		1.00	1	07/10/2023 03:45	WG2091743
Bromochloromethane	ND		1.00	1	07/10/2023 03:45	WG2091743
Bromodichloromethane	ND		1.00	1	07/10/2023 03:45	WG2091743
Bromoform	ND		1.00	1	07/10/2023 03:45	WG2091743
Bromomethane	ND		1.00	1	07/10/2023 03:45	WG2091743
Carbon disulfide	ND		1.00	1	07/10/2023 03:45	WG2091743
Carbon tetrachloride	ND		1.00	1	07/10/2023 03:45	WG2091743
Chlorobenzene	ND		1.00	1	07/10/2023 03:45	WG2091743
Chloroethane	ND		1.00	1	07/10/2023 03:45	WG2091743
Chloroform	ND		1.00	1	07/10/2023 03:45	WG2091743
Chloromethane	ND		1.00	1	07/10/2023 03:45	WG2091743
Dibromochloromethane	ND		1.00	1	07/10/2023 03:45	WG2091743
Dibromomethane	ND	J4	1.00	1	07/10/2023 03:45	WG2091743

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/10/2023 03:45	WG2091743
Iodomethane	ND		1.00	1	07/10/2023 03:45	WG2091743
Methylene Chloride	ND		1.07	1	07/10/2023 03:45	WG2091743
Styrene	ND		1.00	1	07/10/2023 03:45	WG2091743
Tetrachloroethene	ND		1.00	1	07/10/2023 03:45	WG2091743
Toluene	ND		1.00	1	07/10/2023 03:45	WG2091743
Trichloroethene	ND		1.00	1	07/10/2023 03:45	WG2091743
Trichlorofluoromethane	ND		1.00	1	07/10/2023 03:45	WG2091743
Vinyl acetate	ND	<u>J3</u>	5.00	1	07/10/2023 03:45	WG2091743
Vinyl chloride	ND		1.00	1	07/10/2023 03:45	WG2091743
Xylenes, Total	ND		1.00	1	07/10/2023 03:45	WG2091743
cis-1,2-Dichloroethene	ND		1.00	1	07/10/2023 03:45	WG2091743
cis-1,3-Dichloropropene	ND		1.00	1	07/10/2023 03:45	WG2091743
trans-1,2-Dichloroethene	ND		1.00	1	07/10/2023 03:45	WG2091743
trans-1,3-Dichloropropene	ND		1.00	1	07/10/2023 03:45	WG2091743
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/10/2023 03:45	WG2091743
(S) 1,2-Dichloroethane-d4	101			70.0-130	07/10/2023 03:45	WG2091743
(S) 4-Bromofluorobenzene	89.5			77.0-126	07/10/2023 03:45	WG2091743
(S) Toluene-d8	96.1			80.0-120	07/10/2023 03:45	WG2091743

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R3948184-1 07/10/23 15:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

¹Cp

²Tc

³Ss

L1632936-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1632936-04 07/10/23 15:39 • (DUP) R3948184-3 07/10/23 15:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	455	458	1	0.657		5

⁴Cn

⁵Sr

L1632936-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1632936-05 07/10/23 15:39 • (DUP) R3948184-4 07/10/23 15:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	562	577	1	2.63		5

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3948184-2 07/10/23 15:39

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8540	97.0	77.3-123	

⁹Sc

Method Blank (MB)

(MB) R3948400-1 07/10/23 16:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

¹Cp

²Tc

³Ss

L1632964-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-04 07/10/23 16:20 • (DUP) R3948400-3 07/10/23 16:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	294	300	1	2.02		5

⁴Cn

⁵Sr

L1632964-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-19 07/10/23 16:20 • (DUP) R3948400-4 07/10/23 16:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	286	286	1	0.000		5

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3948400-2 07/10/23 16:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8530	96.9	77.3-123	

⁹Sc

Method Blank (MB)

(MB) R3948715-1 07/12/23 10:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

¹Cp

²Tc

³Ss

L1632357-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1632357-01 07/12/23 10:44 • (DUP) R3948715-3 07/12/23 10:44

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	833	848	1	1.75		5

⁴Cn

⁵Sr

L1632465-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1632465-06 07/12/23 10:44 • (DUP) R3948715-4 07/12/23 10:44

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	450	446	1	0.893		5

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3948715-2 07/12/23 10:44

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8470	96.3	77.3-123	

⁹Sc

Method Blank (MB)

(MB) R3948638-1 07/11/23 22:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

1 Cp

2 Tc

3 Ss

L1632954-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1632954-05 07/11/23 22:00 • (DUP) R3948638-3 07/11/23 22:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	506	524	1	3.50		5

4 Cn

5 Sr

L1632954-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1632954-06 07/11/23 22:00 • (DUP) R3948638-4 07/11/23 22:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	420	424	1	0.948		5

6 Qc

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R3948638-2 07/11/23 22:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8520	96.8	77.3-123	

9 Sc

Method Blank (MB)

(MB) R3948630-1 07/11/23 23:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1632954-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1632954-07 07/11/23 23:00 • (DUP) R3948630-3 07/11/23 23:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	795	765	1	3.76		5

L1632964-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-09 07/11/23 23:00 • (DUP) R3948630-4 07/11/23 23:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	358	363	1	1.39		5

Laboratory Control Sample (LCS)

(LCS) R3948630-2 07/11/23 23:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8440	95.9	77.3-123	

Method Blank (MB)

(MB) R3948775-1 07/13/23 09:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

¹Cp

²Tc

³Ss

L1632814-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1632814-01 07/13/23 09:01 • (DUP) R3948775-3 07/13/23 09:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	324	339	1	4.52		5

⁴Cn

⁵Sr

L1632815-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1632815-01 07/13/23 09:01 • (DUP) R3948775-4 07/13/23 09:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1680	1770	1	4.93		5

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3948775-2 07/13/23 09:01

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8510	96.7	77.3-123	

⁹Sc

Method Blank (MB)

(MB) R3947200-2 07/11/23 09:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Alkalinity	ND		2.71	20.0
Alkalinity,Bicarbonate	ND		2.71	20.0
Alkalinity,Carbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1632936-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1632936-01 07/11/23 09:56 • (DUP) R3947200-3 07/11/23 10:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Alkalinity	230	229	1	0.306		20
Alkalinity,Bicarbonate	230	229	1	0.306		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1632964-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-07 07/11/23 11:43 • (DUP) R3947200-4 07/11/23 11:46

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Alkalinity	317	316	1	0.300		20
Alkalinity,Bicarbonate	317	316	1	0.300		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5



Laboratory Control Sample (LCS)

(LCS) R3947200-1 07/11/23 09:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Alkalinity	100	93.0	93.0	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3947407-2 07/11/23 13:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Alkalinity	ND		2.71	20.0
Alkalinity,Bicarbonate	ND		2.71	20.0
Alkalinity,Carbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1632964-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-08 07/11/23 14:05 • (DUP) R3947407-3 07/11/23 14:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Alkalinity	354	363	1	2.34		20
Alkalinity,Bicarbonate	354	363	1	2.34		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

L1632964-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-20 07/11/23 15:34 • (DUP) R3947407-4 07/11/23 15:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Alkalinity	302	298	1	1.38		20
Alkalinity,Bicarbonate	302	298	1	1.38		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5



Laboratory Control Sample (LCS)

(LCS) R3947407-1 07/11/23 13:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Alkalinity	100	101	101	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3946329-1 07/08/23 22:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1632954-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1632954-04 07/08/23 23:09 • (DUP) R3946329-3 07/08/23 23:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

L1632964-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-05 07/08/23 23:41 • (DUP) R3946329-6 07/08/23 23:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R3946329-2 07/08/23 22:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.20	96.0	90.0-110	

L1632954-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632954-04 07/08/23 23:09 • (MS) R3946329-4 07/08/23 23:17 • (MSD) R3946329-5 07/08/23 23:18

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	ND	4.98	4.92	99.5	98.4	1	90.0-110			1.09	10

L1632964-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1632964-05 07/08/23 23:41 • (MS) R3946329-7 07/08/23 23:44

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	ND	4.95	99.0	1	90.0-110	

Method Blank (MB)

(MB) R3946397-1 07/09/23 11:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	0.0380		0.0317	0.100

L1632964-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-07 07/09/23 11:53 • (DUP) R3946397-5 07/09/23 11:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

L1632964-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-20 07/09/23 12:25 • (DUP) R3946397-7 07/09/23 12:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R3946397-2 07/09/23 11:42

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.55	101	90.0-110	

L1632964-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632964-06 07/09/23 11:49 • (MS) R3946397-3 07/09/23 11:50 • (MSD) R3946397-4 07/09/23 11:52

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	ND	5.08	5.18	102	104	1	90.0-110			2.07	10

L1632964-19 Original Sample (OS) • Matrix Spike (MS)

(OS) L1632964-19 07/09/23 12:18 • (MS) R3946397-6 07/09/23 12:19

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	ND	4.84	96.8	1	90.0-110	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3946598-1 07/10/23 11:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Nitrate-Nitrite	ND		0.0197	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1632964-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-03 07/10/23 11:52 • (DUP) R3946598-5 07/10/23 11:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	0.932	0.849	1	9.32		20

L1632964-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-12 07/10/23 12:10 • (DUP) R3946598-7 07/10/23 12:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	0.438	0.435	1	0.687		20

Laboratory Control Sample (LCS)

(LCS) R3946598-2 07/10/23 11:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Nitrate-Nitrite	2.50	2.46	98.4	90.0-110	

L1632964-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632964-02 07/10/23 11:49 • (MS) R3946598-3 07/10/23 11:50 • (MSD) R3946598-4 07/10/23 11:51

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Nitrate-Nitrite	2.50	ND	2.54	2.51	102	100	1	90.0-110			1.19	20

L1632964-11 Original Sample (OS) • Matrix Spike (MS)

(OS) L1632964-11 07/10/23 12:08 • (MS) R3946598-6 07/10/23 12:09

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Nitrate-Nitrite	2.50	1.27	3.74	98.8	1	90.0-110	

Method Blank (MB)

(MB) R3949814-1 07/17/23 10:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	0.562	↓	0.0519	1.00
Sulfate	ND		0.0774	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1632951-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1632951-13 07/17/23 11:12 • (DUP) R3949814-3 07/17/23 11:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	185	185	1	0.00216		15
Sulfate	196	196	1	0.0202		15

L1632964-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-03 07/17/23 19:05 • (DUP) R3949814-6 07/17/23 19:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	20.4	20.4	1	0.00687		15
Sulfate	16.6	16.6	1	0.228		15

Laboratory Control Sample (LCS)

(LCS) R3949814-2 07/17/23 10:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	39.4	98.5	80.0-120	
Sulfate	40.0	39.2	97.9	80.0-120	

L1632951-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632951-13 07/17/23 11:12 • (MS) R3949814-4 07/17/23 11:45 • (MSD) R3949814-5 07/17/23 12:02

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	50.0	185	227	227	84.7	83.3	1	80.0-120	E	E	0.315	15
Sulfate	50.0	196	239	237	85.3	81.5	1	80.0-120	E	E	0.802	15

L1632964-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1632964-03 07/17/23 19:05 • (MS) R3949814-7 07/17/23 19:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	20.4	70.5	100	1	80.0-120	
Sulfate	50.0	16.6	67.1	101	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3949695-1 07/17/23 09:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	mg/l		mg/l	mg/l
Chloride	ND		0.0519	1.00
Sulfate	ND		0.0774	5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1632964-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-04 07/17/23 12:50 • (DUP) R3949695-3 07/17/23 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	mg/l	mg/l	%	%		%
Chloride	27.1	27.2	1	0.378		15
Sulfate	9.45	9.54	1	0.938		15

L1633035-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1633035-02 07/17/23 17:00 • (DUP) R3949695-6 07/17/23 17:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	mg/l	mg/l	%	%		%
Chloride	111	114	1	2.24		15
Sulfate	95.6	98.6	1	3.10		15

Laboratory Control Sample (LCS)

(LCS) R3949695-2 07/17/23 09:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	mg/l	mg/l	%	%	
Chloride	40.0	39.7	99.2	80.0-120	
Sulfate	40.0	41.0	103	80.0-120	

L1632964-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632964-04 07/17/23 12:50 • (MS) R3949695-4 07/17/23 13:10 • (MSD) R3949695-5 07/17/23 13:20

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	27.1	75.0	74.7	95.8	95.0	1	80.0-120			0.519	15
Sulfate	50.0	9.45	58.5	58.4	98.1	97.9	1	80.0-120			0.146	15

L1633035-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633035-02 07/17/23 17:00 • (MS) R3949695-7 07/17/23 17:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	111	158	93.0	1	80.0-120	
Sulfate	50.0	95.6	146	101	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3950125-2 07/18/23 22:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC	0.430	↓	0.102	1.00

¹Cp

²Tc

³Ss

L1632954-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1632954-10 07/19/23 09:15 • (DUP) R3950125-7 07/19/23 09:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	ND	ND	1	0.000		20

⁴Cn

⁵Sr

L1632964-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-03 07/19/23 09:52 • (DUP) R3950125-8 07/19/23 10:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	1.91	1.78	1	7.16		20

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3950125-1 07/18/23 22:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	25.0	24.4	97.7	85.0-115	

⁹Sc

L1632487-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632487-01 07/19/23 02:14 • (MS) R3950125-3 07/19/23 02:35 • (MSD) R3950125-4 07/19/23 02:57

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	16.6	41.5	42.6	99.7	104	1	80.0-120			2.57	20

L1632902-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632902-07 07/19/23 05:04 • (MS) R3950125-5 07/19/23 05:22 • (MSD) R3950125-6 07/19/23 05:39

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	1.42	25.9	26.5	97.8	100	1	80.0-120			2.25	20

Method Blank (MB)

(MB) R3950509-2 07/19/23 14:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC	0.444	↓	0.102	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1632964-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-05 07/19/23 17:23 • (DUP) R3950509-5 07/19/23 17:35

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	1.01	ND	1	22.0	P1	20

L1632964-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-11 07/19/23 20:12 • (DUP) R3950509-8 07/19/23 20:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	1.19	1.10	1	8.20		20

Laboratory Control Sample (LCS)

(LCS) R3950509-1 07/19/23 14:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	25.0	24.5	97.9	85.0-115	

L1632964-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632964-04 07/19/23 16:25 • (MS) R3950509-3 07/19/23 16:48 • (MSD) R3950509-4 07/19/23 17:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	1.84	25.8	25.7	95.6	95.3	1	80.0-120			0.350	20

L1632964-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632964-10 07/19/23 19:16 • (MS) R3950509-6 07/19/23 19:37 • (MSD) R3950509-7 07/19/23 19:59

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	2.06	26.0	26.0	95.7	95.8	1	80.0-120			0.154	20

Method Blank (MB)

(MB) R3949566-1 07/17/23 17:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Silver, Total Recoverable	ND		0.00280	0.00500
Barium, Total Recoverable	ND	U	0.00170	0.00500
Calcium, Total Recoverable	0.0499		0.0463	1.00
Iron, Total Recoverable	ND		0.0141	0.100
Potassium, Total Recoverable	ND		0.102	1.00
Magnesium, Total Recoverable	ND		0.0111	1.00
Manganese, Total Recoverable	ND		0.00120	0.0100
Sodium, Total Recoverable	0.120		0.0111	1.00
Lead, Total Recoverable	0.00204		0.00190	0.00500
Selenium, Total Recoverable	ND		0.00740	0.0100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3949566-2 07/17/23 17:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Silver, Total Recoverable	0.200	0.205	103	80.0-120	
Barium, Total Recoverable	1.00	1.02	102	80.0-120	
Calcium, Total Recoverable	10.0	9.65	96.5	80.0-120	
Iron, Total Recoverable	10.0	9.60	96.0	80.0-120	
Potassium, Total Recoverable	10.0	9.37	93.7	80.0-120	
Magnesium, Total Recoverable	10.0	9.43	94.3	80.0-120	
Manganese, Total Recoverable	1.00	0.988	98.8	80.0-120	
Sodium, Total Recoverable	10.0	10.1	101	80.0-120	
Lead, Total Recoverable	1.00	0.952	95.2	80.0-120	
Selenium, Total Recoverable	1.00	1.01	101	80.0-120	

L1632964-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632964-03 07/17/23 17:16 • (MS) R3949566-4 07/17/23 17:21 • (MSD) R3949566-5 07/17/23 17:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Silver, Total Recoverable	0.200	ND	0.205	0.202	102	101	1	75.0-125			1.41	20
Barium, Total Recoverable	1.00	0.0201	1.03	1.02	101	99.7	1	75.0-125			1.38	20
Calcium, Total Recoverable	10.0	62.2	70.5	70.2	82.6	79.2	1	75.0-125			0.484	20
Iron, Total Recoverable	10.0	ND	9.50	9.40	95.0	94.0	1	75.0-125			1.07	20
Potassium, Total Recoverable	10.0	3.99	13.4	13.3	93.6	93.0	1	75.0-125			0.413	20
Magnesium, Total Recoverable	10.0	4.81	14.0	14.0	91.7	91.6	1	75.0-125			0.111	20
Manganese, Total Recoverable	1.00	0.0307	1.02	1.01	98.8	97.7	1	75.0-125			1.06	20

L1632964-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632964-03 07/17/23 17:16 • (MS) R3949566-4 07/17/23 17:21 • (MSD) R3949566-5 07/17/23 17:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sodium, Total Recoverable	10.0	21.7	30.3	30.3	86.0	86.2	1	75.0-125			0.0521	20
Lead, Total Recoverable	1.00	ND	0.949	0.941	94.4	93.6	1	75.0-125			0.869	20
Selenium, Total Recoverable	1.00	ND	1.04	1.01	104	101	1	75.0-125			2.75	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3947361-1 07/11/23 21:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic, Total Recoverable	ND		0.000250	0.00200
Beryllium, Total Recoverable	ND		0.000120	0.00200
Cadmium, Total Recoverable	ND		0.000160	0.00100
Cobalt, Total Recoverable	ND		0.000260	0.00200
Chromium, Total Recoverable	0.000709		0.000540	0.00200
Copper, Total Recoverable	ND		0.000520	0.00500
Nickel, Total Recoverable	ND		0.000350	0.00200
Antimony, Total Recoverable	ND		0.000754	0.00200
Thallium, Total Recoverable	ND		0.000190	0.00200
Vanadium, Total Recoverable	ND		0.000180	0.00500
Zinc, Total Recoverable	ND		0.00256	0.0250

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Laboratory Control Sample (LCS)

(LCS) R3947361-2 07/11/23 21:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic, Total Recoverable	0.0500	0.0540	108	80.0-120	
Beryllium, Total Recoverable	0.0500	0.0523	105	80.0-120	
Cadmium, Total Recoverable	0.0500	0.0512	102	80.0-120	
Cobalt, Total Recoverable	0.0500	0.0532	106	80.0-120	
Chromium, Total Recoverable	0.0500	0.0530	106	80.0-120	
Copper, Total Recoverable	0.0500	0.0532	106	80.0-120	
Nickel, Total Recoverable	0.0500	0.0519	104	80.0-120	
Antimony, Total Recoverable	0.0500	0.0507	101	80.0-120	
Thallium, Total Recoverable	0.0500	0.0507	101	80.0-120	
Vanadium, Total Recoverable	0.0500	0.0529	106	80.0-120	
Zinc, Total Recoverable	0.0500	0.0519	104	80.0-120	

L1632964-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632964-02 07/11/23 21:47 • (MS) R3947361-4 07/11/23 21:53 • (MSD) R3947361-5 07/11/23 21:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, Total Recoverable	0.0500	ND	0.0527	0.0535	105	107	1	75.0-125			1.51	20
Beryllium, Total Recoverable	0.0500	ND	0.0506	0.0507	101	101	1	75.0-125			0.0960	20
Cadmium, Total Recoverable	0.0500	ND	0.0521	0.0517	104	103	1	75.0-125			0.693	20
Cobalt, Total Recoverable	0.0500	ND	0.0523	0.0529	105	106	1	75.0-125			1.13	20
Chromium, Total Recoverable	0.0500	ND	0.0519	0.0530	104	106	1	75.0-125			2.04	20

L1632964-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632964-02 07/11/23 21:47 • (MS) R3947361-4 07/11/23 21:53 • (MSD) R3947361-5 07/11/23 21:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Copper, Total Recoverable	0.0500	ND	0.0509	0.0514	102	103	1	75.0-125			0.984	20
Nickel, Total Recoverable	0.0500	ND	0.0515	0.0521	103	104	1	75.0-125			1.20	20
Antimony, Total Recoverable	0.0500	ND	0.0505	0.0500	101	100	1	75.0-125			1.00	20
Thallium, Total Recoverable	0.0500	ND	0.0487	0.0491	96.6	97.5	1	75.0-125			0.951	20
Vanadium, Total Recoverable	0.0500	ND	0.0516	0.0524	103	105	1	75.0-125			1.43	20
Zinc, Total Recoverable	0.0500	ND	0.0520	0.0523	104	105	1	75.0-125			0.555	20

- 1
Cp
- 2
Tc
- 3
Ss
- 4
Cn
- 5
Sr
- 6
Qc
- 7
Gl
- 8
Al
- 9
Sc

Method Blank (MB)

(MB) R3947881-1 07/09/23 17:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.0940	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichlorobenzene	ND		0.101	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
1,4-Dichlorobenzene	ND		0.121	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	ND		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromochloromethane	ND		0.145	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromoform	ND		0.186	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	0.116	U	0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	ND		0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3947881-1 07/09/23 17:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Vinyl chloride	ND		0.118	0.500
Xylenes, Total	ND		0.316	1.50
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 1,2-Dichloroethane-d4	112			70.0-130
(S) 4-Bromofluorobenzene	101			77.0-126
(S) Toluene-d8	114			80.0-120

Laboratory Control Sample (LCS)

(LCS) R3947881-2 07/09/23 17:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
1,1,1,2-Tetrachloroethane	5.00	5.26	105	75.0-125	
1,1,1-Trichloroethane	5.00	4.37	87.4	73.0-124	
1,1,2,2-Tetrachloroethane	5.00	4.63	92.6	65.0-130	
1,1,2-Trichloroethane	5.00	5.69	114	80.0-120	
1,1-Dichloroethane	5.00	5.58	112	70.0-126	
1,1-Dichloroethene	5.00	5.42	108	71.0-124	
1,2,3-Trichloropropane	5.00	4.80	96.0	73.0-130	
1,2-Dibromo-3-Chloropropane	5.00	3.24	64.8	58.0-134	
1,2-Dibromoethane	5.00	5.50	110	80.0-122	
1,2-Dichlorobenzene	5.00	4.91	98.2	79.0-121	
1,2-Dichloroethane	5.00	5.30	106	70.0-128	
1,2-Dichloropropane	5.00	5.55	111	77.0-125	
1,4-Dichlorobenzene	5.00	5.15	103	79.0-120	
2-Butanone (MEK)	25.0	27.7	111	44.0-160	
2-Hexanone	25.0	37.7	151	67.0-149	J4
4-Methyl-2-pentanone (MIBK)	25.0	30.1	120	68.0-142	
Acetone	25.0	15.2	60.8	19.0-160	
Acrylonitrile	25.0	28.2	113	55.0-149	
Benzene	5.00	4.71	94.2	70.0-123	
Bromochloromethane	5.00	5.30	106	76.0-122	
Bromodichloromethane	5.00	4.47	89.4	75.0-120	
Bromoform	5.00	5.33	107	68.0-132	
Bromomethane	5.00	4.12	82.4	10.0-160	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3947881-2 07/09/23 17:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Carbon disulfide	5.00	4.02	80.4	61.0-128	
Carbon tetrachloride	5.00	4.22	84.4	68.0-126	
Chlorobenzene	5.00	5.42	108	80.0-121	
Chloroethane	5.00	5.03	101	47.0-150	
Chloroform	5.00	4.60	92.0	73.0-120	
Chloromethane	5.00	5.59	112	41.0-142	
Dibromochloromethane	5.00	5.48	110	77.0-125	
Dibromomethane	5.00	4.75	95.0	80.0-120	
Ethylbenzene	5.00	5.49	110	79.0-123	
Iodomethane	25.0	22.2	88.8	33.0-147	
Methylene Chloride	5.00	4.44	88.8	67.0-120	
Styrene	5.00	5.05	101	73.0-130	
Tetrachloroethene	5.00	6.19	124	72.0-132	
Toluene	5.00	5.27	105	79.0-120	
Trichloroethene	5.00	5.47	109	78.0-124	
Trichlorofluoromethane	5.00	4.05	81.0	59.0-147	
Vinyl acetate	25.0	27.7	111	11.0-160	
Vinyl chloride	5.00	5.00	100	67.0-131	
Xylenes, Total	15.0	15.7	105	79.0-123	
cis-1,2-Dichloroethene	5.00	4.45	89.0	73.0-120	
cis-1,3-Dichloropropene	5.00	5.16	103	80.0-123	
trans-1,2-Dichloroethene	5.00	4.59	91.8	73.0-120	
trans-1,3-Dichloropropene	5.00	5.54	111	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	4.70	94.0	33.0-144	
(S) 1,2-Dichloroethane-d4			113	70.0-130	
(S) 4-Bromofluorobenzene			97.8	77.0-126	
(S) Toluene-d8			114	80.0-120	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3946635-3 07/09/23 22:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.0940	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichlorobenzene	ND		0.101	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
1,4-Dichlorobenzene	ND		0.121	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	ND		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromochloromethane	ND		0.145	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromoform	ND		0.186	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	ND		0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	ND		0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3946635-3 07/09/23 22:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Vinyl chloride	ND		0.118	0.500
Xylenes, Total	ND		0.316	1.50
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 1,2-Dichloroethane-d4	96.8			70.0-130
(S) 4-Bromofluorobenzene	92.8			77.0-126
(S) Toluene-d8	96.8			80.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3946635-1 07/09/23 21:38 • (LCSD) R3946635-2 07/09/23 21:57

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
1,1,1,2-Tetrachloroethane	5.00	5.69	4.99	114	99.8	75.0-125			13.1	20
1,1,1-Trichloroethane	5.00	5.87	5.33	117	107	73.0-124			9.64	20
1,1,2,2-Tetrachloroethane	5.00	6.41	5.58	128	112	65.0-130			13.8	20
1,1,2-Trichloroethane	5.00	6.26	5.49	125	110	80.0-120	J4		13.1	20
1,1-Dichloroethane	5.00	5.53	5.12	111	102	70.0-126			7.70	20
1,1-Dichloroethene	5.00	5.62	5.14	112	103	71.0-124			8.92	20
1,2,3-Trichloropropane	5.00	5.96	5.52	119	110	73.0-130			7.67	20
1,2-Dibromo-3-Chloropropane	5.00	4.64	4.43	92.8	88.6	58.0-134			4.63	20
1,2-Dibromoethane	5.00	6.00	5.29	120	106	80.0-122			12.6	20
1,2-Dichlorobenzene	5.00	5.95	5.55	119	111	79.0-121			6.96	20
1,2-Dichloroethane	5.00	5.61	5.03	112	101	70.0-128			10.9	20
1,2-Dichloropropane	5.00	5.97	5.34	119	107	77.0-125			11.1	20
1,4-Dichlorobenzene	5.00	5.94	5.31	119	106	79.0-120			11.2	20
2-Butanone (MEK)	25.0	25.4	23.2	102	92.8	44.0-160			9.05	20
2-Hexanone	25.0	35.5	29.9	142	120	67.0-149			17.1	20
4-Methyl-2-pentanone (MIBK)	25.0	27.0	24.0	108	96.0	68.0-142			11.8	20
Acetone	25.0	24.3	21.0	97.2	84.0	19.0-160			14.6	27
Acrylonitrile	25.0	26.9	24.9	108	99.6	55.0-149			7.72	20
Benzene	5.00	5.49	4.99	110	99.8	70.0-123			9.54	20
Bromochloromethane	5.00	5.49	4.84	110	96.8	76.0-122			12.6	20
Bromodichloromethane	5.00	5.65	5.33	113	107	75.0-120			5.83	20
Bromoform	5.00	5.07	4.70	101	94.0	68.0-132			7.57	20
Bromomethane	5.00	7.68	7.70	154	154	10.0-160			0.260	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3946635-1 07/09/23 21:38 • (LCSD) R3946635-2 07/09/23 21:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon disulfide	5.00	4.75	4.72	95.0	94.4	61.0-128			0.634	20
Carbon tetrachloride	5.00	5.69	5.32	114	106	68.0-126			6.72	20
Chlorobenzene	5.00	6.02	5.48	120	110	80.0-121			9.39	20
Chloroethane	5.00	5.55	6.14	111	123	47.0-150			10.1	20
Chloroform	5.00	5.21	4.80	104	96.0	73.0-120			8.19	20
Chloromethane	5.00	3.90	3.72	78.0	74.4	41.0-142			4.72	20
Dibromochloromethane	5.00	5.93	5.05	119	101	77.0-125			16.0	20
Dibromomethane	5.00	6.17	5.34	123	107	80.0-120	J4		14.4	20
Ethylbenzene	5.00	5.74	5.15	115	103	79.0-123			10.8	20
Iodomethane	25.0	27.0	25.5	108	102	33.0-147			5.71	26
Methylene Chloride	5.00	5.09	4.75	102	95.0	67.0-120			6.91	20
Styrene	5.00	4.87	4.37	97.4	87.4	73.0-130			10.8	20
Tetrachloroethene	5.00	5.25	5.00	105	100	72.0-132			4.88	20
Toluene	5.00	5.53	5.04	111	101	79.0-120			9.27	20
Trichloroethene	5.00	5.09	4.55	102	91.0	78.0-124			11.2	20
Trichlorofluoromethane	5.00	4.85	4.37	97.0	87.4	59.0-147			10.4	20
Vinyl acetate	25.0	27.5	21.7	110	86.8	11.0-160		J3	23.6	20
Vinyl chloride	5.00	5.65	5.24	113	105	67.0-131			7.53	20
Xylenes, Total	15.0	17.3	15.3	115	102	79.0-123			12.3	20
cis-1,2-Dichloroethene	5.00	5.48	4.99	110	99.8	73.0-120			9.36	20
cis-1,3-Dichloropropene	5.00	5.15	4.69	103	93.8	80.0-123			9.35	20
trans-1,2-Dichloroethene	5.00	5.29	5.06	106	101	73.0-120			4.44	20
trans-1,3-Dichloropropene	5.00	6.19	5.50	124	110	78.0-124			11.8	20
trans-1,4-Dichloro-2-butene	5.00	3.26	3.07	65.2	61.4	33.0-144			6.00	20
(S) 1,2-Dichloroethane-d4				95.2	91.3	70.0-130				
(S) 4-Bromofluorobenzene				99.9	96.9	77.0-126				
(S) Toluene-d8				95.5	95.1	80.0-120				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

L1633148-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633148-04 07/10/23 06:03 • (MS) R3946635-4 07/10/23 06:23 • (MSD) R3946635-5 07/10/23 06:42

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	5000	ND	5380	4960	108	99.2	1000	36.0-151			8.12	29
1,1,1-Trichloroethane	5000	ND	6190	5240	124	105	1000	23.0-160			16.6	28
1,1,2,2-Tetrachloroethane	5000	ND	7450	7010	149	140	1000	33.0-150			6.09	28
1,1,2-Trichloroethane	5000	ND	6300	6320	126	126	1000	35.0-147			0.317	27
1,1-Dichloroethane	5000	ND	5690	5150	114	103	1000	25.0-158			9.96	27
1,1-Dichloroethene	5000	ND	5970	5240	119	105	1000	11.0-160			13.0	29

L1633148-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633148-04 07/10/23 06:03 • (MS) R3946635-4 07/10/23 06:23 • (MSD) R3946635-5 07/10/23 06:42

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,3-Trichloropropane	5000	ND	6660	6030	133	121	1000	34.0-151			9.93	29
1,2-Dibromo-3-Chloropropane	5000	ND	5360	5170	107	103	1000	22.0-151			3.61	34
1,2-Dibromoethane	5000	ND	5980	5850	120	117	1000	34.0-147			2.20	27
1,2-Dichlorobenzene	5000	ND	6150	5730	123	115	1000	34.0-149			7.07	28
1,2-Dichloroethane	5000	ND	6250	5840	125	117	1000	29.0-151			6.78	27
1,2-Dichloropropane	5000	ND	6290	5930	126	119	1000	30.0-156			5.89	27
1,4-Dichlorobenzene	5000	ND	5850	5380	117	108	1000	35.0-142			8.37	27
2-Butanone (MEK)	25000	ND	27700	28700	111	115	1000	10.0-160			3.55	32
2-Hexanone	25000	ND	34800	37000	139	148	1000	21.0-160			6.13	29
4-Methyl-2-pentanone (MIBK)	25000	ND	28500	28800	114	115	1000	29.0-160			1.05	29
Acetone	25000	ND	26200	25000	105	100	1000	10.0-160			4.69	35
Acrylonitrile	25000	ND	30900	29600	124	118	1000	21.0-160			4.30	32
Benzene	5000	ND	5730	5200	115	104	1000	17.0-158			9.70	27
Bromochloromethane	5000	ND	5470	4910	109	98.2	1000	38.0-142			10.8	26
Bromodichloromethane	5000	ND	6350	6080	127	122	1000	31.0-150			4.34	27
Bromoform	5000	ND	5090	5120	102	102	1000	29.0-150			0.588	29
Bromomethane	5000	ND	8980	8050	180	161	1000	10.0-160	J5	J5	10.9	38
Carbon disulfide	5000	ND	4670	3890	93.4	77.8	1000	10.0-156			18.2	28
Carbon tetrachloride	5000	ND	6200	5200	124	104	1000	23.0-159			17.5	28
Chlorobenzene	5000	ND	5970	5470	119	109	1000	33.0-152			8.74	27
Chloroethane	5000	ND	6460	6100	129	122	1000	10.0-160			5.73	30
Chloroform	5000	ND	5500	4940	110	98.8	1000	29.0-154			10.7	28
Chloromethane	5000	ND	6630	5630	133	113	1000	10.0-160			16.3	29
Dibromochloromethane	5000	ND	5780	5710	116	114	1000	37.0-149			1.22	27
Dibromomethane	5000	ND	6850	6440	137	129	1000	30.0-151			6.17	27
Ethylbenzene	5000	ND	5570	5050	111	101	1000	30.0-155			9.79	27
Iodomethane	25000	ND	26000	22900	104	91.6	1000	10.0-160			12.7	40
Methylene Chloride	5000	ND	5070	4730	101	94.6	1000	23.0-144			6.94	28
Styrene	5000	ND	4650	4450	93.0	89.0	1000	33.0-155			4.40	28
Tetrachloroethene	5000	ND	4750	4270	95.0	85.4	1000	10.0-160			10.6	27
Toluene	5000	ND	5500	5070	110	101	1000	26.0-154			8.14	28
Trichloroethene	5000	8370	13500	12400	103	80.6	1000	10.0-160			8.49	25
Trichlorofluoromethane	5000	ND	4980	4360	99.6	87.2	1000	17.0-160			13.3	31
Vinyl acetate	25000	ND	35600	35000	142	140	1000	12.0-160			1.70	31
Vinyl chloride	5000	1830	8530	7270	134	109	1000	10.0-160			15.9	27
Xylenes, Total	15000	ND	16500	14900	110	99.3	1000	29.0-154			10.2	28
cis-1,2-Dichloroethene	5000	12600	18700	17900	122	106	1000	10.0-160			4.37	27
cis-1,3-Dichloropropene	5000	ND	5600	5300	112	106	1000	34.0-149			5.50	28
trans-1,2-Dichloroethene	5000	ND	5340	4540	107	90.8	1000	17.0-153			16.2	27
trans-1,3-Dichloropropene	5000	ND	6360	6240	127	125	1000	32.0-149			1.90	28

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1633148-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633148-04 07/10/23 06:03 • (MS) R3946635-4 07/10/23 06:23 • (MSD) R3946635-5 07/10/23 06:42

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,4-Dichloro-2-butene	5000	ND	3680	3620	73.6	72.4	1000	10.0-157			1.64	37
<i>(S) 1,2-Dichloroethane-d4</i>					100	102		70.0-130				
<i>(S) 4-Bromofluorobenzene</i>					94.4	95.1		77.0-126				
<i>(S) Toluene-d8</i>					93.4	91.3		80.0-120				

Sample Narrative:

OS: Target compounds too high to run at a lower dilution.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

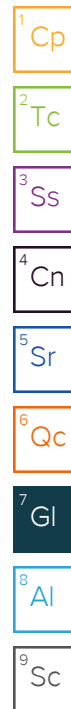
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:

Eco-Vista (Tontitown)LF

88 Joyce Lane
Russellville, AR 72801

Billing Information:

jreyno10@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Report to:
Jodi Reynolds

Email To:
ciara.children.beavers@jettenviro.com; jeffholm

Project Description:
Eco-Vista - GW-July

City/State
Collected:

Please Circle:
PT MT CT ET

Phone: **501-993-8966**

Client Project #
200

Lab Project #
WMECOVISAR-00019

Collected by (print):
Chris Fincher

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Date Results Needed

No. of
Ctrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Ctrs
-----------	-----------	----------	-------	------	------	-------------

TRIP BLANK		GW				3
FB	Grab	GW	N/A	7.5.23	0830	8
NE-1		GW	49.90	7.5.23	0940	8
NE-2		GW	21.95	7.5.23	1130	8
NE-4		GW	64.85	7.5.23	0835	8
NE-5		GW	72.20	7.6.23	0920	8
NE-5E		GW	68.75	7.6.23	1020	8
NE-5W		GW	74.30	7.6.23	0835	8
NE-6		GW	39.35	7.6.23	1200	8
NE-6D		GW	34.55	7.6.23	1110	8

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:

UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes/No

3 HCL/MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

152

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

7/7/23 900

Hold:

Condition:
NCF /

Analysis / Container / Preservative

Pres
Chk

ALK, CHLORIDE, SULFA 250mIHDPPE-NoPres

CHLORIDE 125mIHDPPE-NoPres

Metals 250mIHDPPE-HNO3

NH3 250mIHDPPE-H2SO4

NH3,NO2NO3 250mIHDPPE-H2SO4

TDS 1L-HDPE NoPres

TOC 250mIHDPPE-HCl

V8260LL 40mIAmb-HCl

V8260LL TB 40mIAmb-HCl-Bik

PH-10BDH4321 TRC-2144141
CR6-20221V

Chain of Custody Page 1 of 2



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **L1632964**
D230

Acctnum: **WMECOVISAR**

Template: **T211193**

Prelogin: **P1006574**

PM: **616 - Stacy Kennedy**

PB:

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

-01
-02
-03
-04
-05
-06
-07
-08
-09
-10

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Company Name/Address:
Eco-Vista (Tontitown)LF

88 Joyce Lane
Russellville, AR 72801

Report to:
Jodi Reynolds

Project Description:
Eco-Vista - GW-July

Phone: **501-993-8966**

Collected by (print):
Chris Fincher

Collected by (signature):
[Signature]

Immediately
Packed on Ice N Y X

Billing Information:

jreyno10@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Email To:
ciara.children.beavers@jettenviro.com;jeffholm

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **L1632964**

Table #

Acctnum: **WMCOVISAR**

Template: **T211193**

Prelogin: **P1006574**

PM: **616 - Stacy Kennedy**

PB:

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

Client Project # 200	Lab Project # WMCOVISAR-00019					
Site/Facility ID # AR03	P.O. #					
Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day	Quote #					
Date Results Needed						
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs

ALK, CHLORIDE, SULFA 250mIHDPe-NoPres	CHLORIDE 125mIHDPe-NoPres	Metals 250mIHDPe-HNO3	NH3 250mIHDPe-H2SO4	NH3, NO2NO3 250mIHDPe-H2SO4	TDS 1L-HDPE NoPres	TOC 250mIHDPe-HCl	V8260LL 40mIAmb-HCl	V8260LL TB 40mIAmb-HCl-Bik
X	X	X	X	X	X	X	X	X

NE-7	Grab	GW	61.45	7.6.23	1300	8	X	X	X	X	X	X						
NE-8		GW	13.85	7.5.23	1625	8	X	X	X	X	X	X						-11
NE-9		GW	11.95	7.5.23	1050	8	X	X	X	X	X	X						-12
NE-10D	Wildcat Creek SW	GW	N/A	7.6.23	1530	8	X	X	X	X	X	X						-13
NE-11		GW	49.55	7.6.23	1345	8	X	X	X	X	X	X						-14
NE-12		GW	59.40	7.5.23	1430	8	X	X	X	X	X	X						-15
NE-13	Dup 2	GW	77.77'	7.5.23	0700	8	X	X	X	X	X	X						-16
NE-14D		GW	17.75	7.5.23	1225	8	X	X	X	X	X	X						-17
NE-14S		GW	19.65	7.5.23	1250	8	X	X	X	X	X	X						-18
NE-15D		GW	48.00	7.6.23	1430	8	X	X	X	X	X	X						-19
																		-20

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

Samples returned via:
 UPS FedEx Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact:	NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 m/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature) <i>[Signature]</i>	Date: 7.6.23	Time: 1700	Received by: (Signature)	Trip Blank Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	HCL/MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: _____ °C	Bottles Received: 152
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>Kayal</i>	Date: 7/7/23	Time: 900

If preservation required by Login: Date/Time
 Hold:
 Condition:
 NCF OK

Time estimate: oh

Time spent: oh

Members



Deanna Ramsey (responsible)



Stacy Kennedy

- Parameter(s) past holding time
- Temperature not in range
- Improper container type
- pH not in range
- Insufficient sample volume
- Sample is biphasic
- Vials received with headspace
- Broken container
- Sufficient sample remains
- If broken container: Insufficient packing material around container
- If broken container: Insufficient packing material inside cooler
- If broken container: Improper handling by carrier: _____
- If broken container: Sample was frozen
- If broken container: Container lid not intact
- Client informed by Call
- Client informed by Email
- Client informed by Voicemail
- Date/Time: _____
- PM initials: _____
- Client Contact: _____

Comments

- Deanna Ramsey* *7 July 2023 1:53 PM*
 1 Tripblank was received with Headspace
- Stacy Kennedy* *7 July 2023 3:49 PM*
 Noted. Please use other trip blank vials received without headspace.
- Deanna Ramsey* *7 July 2023 4:20 PM*
 done

Eco-Vista (Tontitown)LF

Sample Delivery Group: L1633566
Samples Received: 07/08/2023
Project Number: 200
Description: Eco-Vista - GW-July
Site: AR03
Report To: Jodi Reynolds
88 Joyce Lane
Russellville, AR 72801

Entire Report Reviewed By:








Stacy Kennedy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

MW-3N L1633566-01 GW

Collected by: Chris Fincher
 Collected date/time: 07/07/23 11:10
 Received date/time: 07/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093348	1	07/12/23 12:57	07/12/23 14:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2093202	1	07/12/23 11:21	07/12/23 11:21	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091558	1	07/12/23 16:06	07/12/23 16:06	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092694	1	07/11/23 19:35	07/11/23 19:35	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096273	1	07/18/23 06:32	07/18/23 06:32	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2098147	1	07/21/23 19:19	07/21/23 19:19	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092145	1	07/11/23 11:22	07/18/23 17:21	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091636	1	07/10/23 11:18	07/13/23 15:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 00:05	07/12/23 00:05	JAH	Mt. Juliet, TN



MW-7N L1633566-02 GW

Collected by: Chris Fincher
 Collected date/time: 07/07/23 09:50
 Received date/time: 07/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093348	1	07/12/23 12:57	07/12/23 14:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2093202	1	07/12/23 11:47	07/12/23 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091558	1	07/12/23 16:08	07/12/23 16:08	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092694	5	07/11/23 19:39	07/11/23 19:39	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096273	1	07/18/23 06:44	07/18/23 06:44	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2098147	1	07/21/23 19:34	07/21/23 19:34	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092145	1	07/11/23 11:22	07/18/23 17:24	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091636	1	07/10/23 11:18	07/13/23 15:35	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 00:24	07/12/23 00:24	JAH	Mt. Juliet, TN

MW-8N L1633566-03 GW

Collected by: Chris Fincher
 Collected date/time: 07/07/23 08:55
 Received date/time: 07/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093348	1	07/12/23 12:57	07/12/23 14:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2093202	1	07/12/23 11:50	07/12/23 11:50	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091558	1	07/12/23 16:09	07/12/23 16:09	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092694	2	07/11/23 19:40	07/11/23 19:40	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096273	1	07/18/23 06:57	07/18/23 06:57	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2098147	1	07/21/23 20:23	07/21/23 20:23	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092145	1	07/11/23 11:22	07/18/23 17:27	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091636	1	07/10/23 11:18	07/13/23 15:38	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 00:43	07/12/23 00:43	JAH	Mt. Juliet, TN

MW-10N L1633566-04 GW

Collected by: Chris Fincher
 Collected date/time: 07/07/23 10:35
 Received date/time: 07/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093348	1	07/12/23 12:57	07/12/23 14:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2093202	1	07/12/23 11:54	07/12/23 11:54	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091558	1	07/12/23 16:11	07/12/23 16:11	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:00	07/11/23 20:00	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096273	1	07/18/23 07:09	07/18/23 07:09	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2098147	1	07/21/23 20:38	07/21/23 20:38	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092145	1	07/11/23 11:22	07/18/23 17:29	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091636	1	07/10/23 11:18	07/13/23 15:41	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 01:01	07/12/23 01:01	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-21 L1633566-05 GW

Collected by: Chris Fincher
 Collected date/time: 07/07/23 12:50
 Received date/time: 07/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093348	1	07/12/23 12:57	07/12/23 14:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2093202	1	07/12/23 11:58	07/12/23 11:58	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2091558	1	07/12/23 16:12	07/12/23 16:12	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:01	07/11/23 20:01	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096273	1	07/18/23 07:22	07/18/23 07:22	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2098147	1	07/21/23 20:52	07/21/23 20:52	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092145	1	07/11/23 11:22	07/18/23 17:38	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2091636	1	07/10/23 11:18	07/13/23 15:45	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 01:20	07/12/23 01:20	JAH	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

TRIPBLANK L1633566-06 GW

Collected by: Chris Fincher
 Collected date/time: 07/07/23 00:00
 Received date/time: 07/08/23 09:00

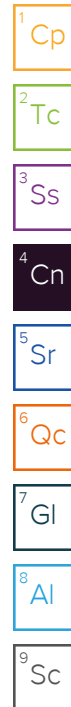
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/11/23 23:47	07/11/23 23:47	JAH	Mt. Juliet, TN

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Stacy Kennedy
Project Manager



Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Gravimetric Analysis by Method 2540 C-2011

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2093348	(DUP) R3948623-4	Dissolved Solids

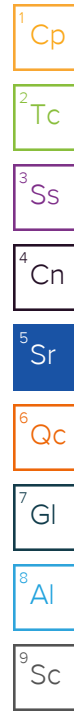
Metals (ICP) by Method 6010B

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2092145	(MSD) R3949977-5	Sodium, Total Recoverable

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.08	su
Specific Conductance (on site)	632	umhos/cm
Temperature (on-site)	21.1	Deg. C
Turbidity (on-site)	5.4	NTU
Dissolved Oxygen (on-site)	0.9	mg/l
eH/ORP (On Site)	166.3	mV
Depth to water (DTW) (FROM TOC)	44.61	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	327		10.0	1	07/12/2023 14:00	WG2093348

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	270		10.0	1	07/12/2023 11:21	WG2093202
Alkalinity,Bicarbonate	270		10.0	1	07/12/2023 11:21	WG2093202
Alkalinity,Carbonate	ND		10.0	1	07/12/2023 11:21	WG2093202

Sample Narrative:

L1633566-01 WG2093202: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 16:06	WG2091558

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.761		0.100	1	07/11/2023 19:35	WG2092694

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	5.83		3.00	1	07/18/2023 06:32	WG2096273
Sulfate	21.6		5.00	1	07/18/2023 06:32	WG2096273

Wet Chemistry by Method 9060A

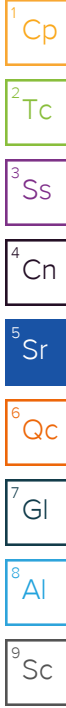
Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	2.06		1.00	1	07/21/2023 19:19	WG2098147

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/18/2023 17:21	WG2092145
Barium, Total Recoverable	0.0724		0.00500	1	07/18/2023 17:21	WG2092145
Calcium, Total Recoverable	111		0.200	1	07/18/2023 17:21	WG2092145
Iron, Total Recoverable	ND		0.0600	1	07/18/2023 17:21	WG2092145
Potassium, Total Recoverable	ND		3.00	1	07/18/2023 17:21	WG2092145

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	3.63		0.200	1	07/18/2023 17:21	WG2092145
Manganese, Total Recoverable	0.142		0.00300	1	07/18/2023 17:21	WG2092145
Sodium, Total Recoverable	ND		5.00	1	07/18/2023 17:21	WG2092145
Lead, Total Recoverable	ND		0.00500	1	07/18/2023 17:21	WG2092145
Selenium, Total Recoverable	ND		0.0100	1	07/18/2023 17:21	WG2092145



Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/13/2023 15:31	WG2091636
Beryllium, Total Recoverable	ND		0.00100	1	07/13/2023 15:31	WG2091636
Cadmium, Total Recoverable	0.00698		0.00100	1	07/13/2023 15:31	WG2091636
Cobalt, Total Recoverable	ND		0.00300	1	07/13/2023 15:31	WG2091636
Chromium, Total Recoverable	ND		0.00300	1	07/13/2023 15:31	WG2091636
Copper, Total Recoverable	ND		0.00400	1	07/13/2023 15:31	WG2091636
Nickel, Total Recoverable	0.00955		0.00400	1	07/13/2023 15:31	WG2091636
Antimony, Total Recoverable	ND		0.00200	1	07/13/2023 15:31	WG2091636
Thallium, Total Recoverable	ND		0.00100	1	07/13/2023 15:31	WG2091636
Vanadium, Total Recoverable	ND		0.00300	1	07/13/2023 15:31	WG2091636
Zinc, Total Recoverable	0.0526		0.00500	1	07/13/2023 15:31	WG2091636

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 00:05	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 00:05	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 00:05	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 00:05	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 00:05	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 00:05	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 00:05	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 00:05	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 00:05	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 00:05	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 00:05	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 00:05	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 00:05	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 00:05	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 00:05	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 00:05	WG2093044
Acetone	ND		10.0	1	07/12/2023 00:05	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 00:05	WG2093044
Benzene	ND		1.00	1	07/12/2023 00:05	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 00:05	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 00:05	WG2093044
Bromoform	ND		1.00	1	07/12/2023 00:05	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 00:05	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 00:05	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 00:05	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 00:05	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 00:05	WG2093044
Chloroform	ND		1.00	1	07/12/2023 00:05	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 00:05	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 00:05	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 00:05	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 00:05	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 00:05	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 00:05	WG2093044
Styrene	ND		1.00	1	07/12/2023 00:05	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 00:05	WG2093044
Toluene	ND		1.00	1	07/12/2023 00:05	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 00:05	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 00:05	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 00:05	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 00:05	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 00:05	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 00:05	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 00:05	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 00:05	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 00:05	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 00:05	WG2093044
(S) 1,2-Dichloroethane-d4	104			70.0-130	07/12/2023 00:05	WG2093044
(S) 4-Bromofluorobenzene	96.1			77.0-126	07/12/2023 00:05	WG2093044
(S) Toluene-d8	104			80.0-120	07/12/2023 00:05	WG2093044

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.22	su
Specific Conductance (on site)	624	umhos/cm
Temperature (on-site)	18.5	Deg. C
Turbidity (on-site)	3.8	NTU
Dissolved Oxygen (on-site)	4.4	mg/l
eH/ORP (On Site)	165.9	mV
Depth to water (DTW) (FROM TOC)	87.1	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	321		10.0	1	07/12/2023 14:00	WG2093348

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	192		10.0	1	07/12/2023 11:47	WG2093202
Alkalinity,Bicarbonate	192		10.0	1	07/12/2023 11:47	WG2093202
Alkalinity,Carbonate	ND		10.0	1	07/12/2023 11:47	WG2093202

Sample Narrative:

L1633566-02 WG2093202: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 16:08	WG2091558

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	6.65		0.100	5	07/11/2023 19:39	WG2092694

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	31.6		3.00	1	07/18/2023 06:44	WG2096273
Sulfate	20.6		5.00	1	07/18/2023 06:44	WG2096273

Wet Chemistry by Method 9060A

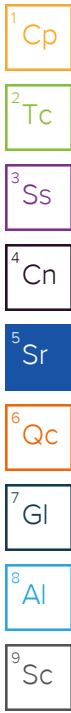
Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	2.62		1.00	1	07/21/2023 19:34	WG2098147

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/18/2023 17:24	WG2092145
Barium,Total Recoverable	0.134		0.00500	1	07/18/2023 17:24	WG2092145
Calcium, Total Recoverable	74.2		0.200	1	07/18/2023 17:24	WG2092145
Iron, Total Recoverable	ND		0.0600	1	07/18/2023 17:24	WG2092145
Potassium, Total Recoverable	ND		3.00	1	07/18/2023 17:24	WG2092145

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	4.48		0.200	1	07/18/2023 17:24	WG2092145
Manganese, Total Recoverable	0.00909	J	0.00300	1	07/18/2023 17:24	WG2092145
Sodium, Total Recoverable	33.3		5.00	1	07/18/2023 17:24	WG2092145
Lead, Total Recoverable	ND		0.00500	1	07/18/2023 17:24	WG2092145
Selenium, Total Recoverable	ND		0.0100	1	07/18/2023 17:24	WG2092145



Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/13/2023 15:35	WG2091636
Beryllium, Total Recoverable	ND		0.00100	1	07/13/2023 15:35	WG2091636
Cadmium, Total Recoverable	ND		0.00100	1	07/13/2023 15:35	WG2091636
Cobalt, Total Recoverable	ND		0.00300	1	07/13/2023 15:35	WG2091636
Chromium, Total Recoverable	ND		0.00300	1	07/13/2023 15:35	WG2091636
Copper, Total Recoverable	ND		0.00400	1	07/13/2023 15:35	WG2091636
Nickel, Total Recoverable	ND		0.00400	1	07/13/2023 15:35	WG2091636
Antimony, Total Recoverable	ND		0.00200	1	07/13/2023 15:35	WG2091636
Thallium, Total Recoverable	ND		0.00100	1	07/13/2023 15:35	WG2091636
Vanadium, Total Recoverable	ND		0.00300	1	07/13/2023 15:35	WG2091636
Zinc, Total Recoverable	0.00948	J	0.00500	1	07/13/2023 15:35	WG2091636

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 00:24	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 00:24	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 00:24	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 00:24	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 00:24	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 00:24	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 00:24	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 00:24	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 00:24	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 00:24	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 00:24	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 00:24	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 00:24	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 00:24	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 00:24	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 00:24	WG2093044
Acetone	ND		10.0	1	07/12/2023 00:24	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 00:24	WG2093044
Benzene	ND		1.00	1	07/12/2023 00:24	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 00:24	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 00:24	WG2093044
Bromoform	ND		1.00	1	07/12/2023 00:24	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 00:24	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 00:24	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 00:24	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 00:24	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 00:24	WG2093044
Chloroform	ND		1.00	1	07/12/2023 00:24	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 00:24	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 00:24	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 00:24	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 00:24	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 00:24	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 00:24	WG2093044
Styrene	ND		1.00	1	07/12/2023 00:24	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 00:24	WG2093044
Toluene	ND		1.00	1	07/12/2023 00:24	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 00:24	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 00:24	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 00:24	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 00:24	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 00:24	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 00:24	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 00:24	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 00:24	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 00:24	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 00:24	WG2093044
(S) 1,2-Dichloroethane-d4	102			70.0-130	07/12/2023 00:24	WG2093044
(S) 4-Bromofluorobenzene	97.8			77.0-126	07/12/2023 00:24	WG2093044
(S) Toluene-d8	106			80.0-120	07/12/2023 00:24	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

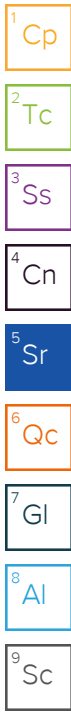
7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.74	su
Specific Conductance (on site)	532	umhos/cm
Temperature (on-site)	17.2	Deg. C
Turbidity (on-site)	3.5	NTU
Dissolved Oxygen (on-site)	0.5	mg/l
eH/ORP (On Site)	182.7	mV
Depth to water (DTW) (FROM TOC)	29.89	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	261		10.0	1	07/12/2023 14:00	WG2093348

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	169		10.0	1	07/12/2023 11:50	WG2093202
Alkalinity,Bicarbonate	169		10.0	1	07/12/2023 11:50	WG2093202
Alkalinity,Carbonate	ND		10.0	1	07/12/2023 11:50	WG2093202

Sample Narrative:

L1633566-03 WG2093202: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 16:09	WG2091558

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.86		0.100	2	07/11/2023 19:40	WG2092694

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	29.6		3.00	1	07/18/2023 06:57	WG2096273
Sulfate	19.7		5.00	1	07/18/2023 06:57	WG2096273

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	2.50		1.00	1	07/21/2023 20:23	WG2098147

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/18/2023 17:27	WG2092145
Barium, Total Recoverable	0.141		0.00500	1	07/18/2023 17:27	WG2092145
Calcium, Total Recoverable	52.8		0.200	1	07/18/2023 17:27	WG2092145
Iron, Total Recoverable	ND		0.0600	1	07/18/2023 17:27	WG2092145
Potassium, Total Recoverable	3.85		3.00	1	07/18/2023 17:27	WG2092145

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	8.35		0.200	1	07/18/2023 17:27	WG2092145
Manganese, Total Recoverable	2.66		0.00300	1	07/18/2023 17:27	WG2092145
Sodium, Total Recoverable	27.0		5.00	1	07/18/2023 17:27	WG2092145
Lead, Total Recoverable	ND		0.00500	1	07/18/2023 17:27	WG2092145
Selenium, Total Recoverable	ND		0.0100	1	07/18/2023 17:27	WG2092145



Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/13/2023 15:38	WG2091636
Beryllium, Total Recoverable	ND		0.00100	1	07/13/2023 15:38	WG2091636
Cadmium, Total Recoverable	0.00758		0.00100	1	07/13/2023 15:38	WG2091636
Cobalt, Total Recoverable	ND		0.00300	1	07/13/2023 15:38	WG2091636
Chromium, Total Recoverable	ND		0.00300	1	07/13/2023 15:38	WG2091636
Copper, Total Recoverable	ND		0.00400	1	07/13/2023 15:38	WG2091636
Nickel, Total Recoverable	0.0203		0.00400	1	07/13/2023 15:38	WG2091636
Antimony, Total Recoverable	ND		0.00200	1	07/13/2023 15:38	WG2091636
Thallium, Total Recoverable	ND		0.00100	1	07/13/2023 15:38	WG2091636
Vanadium, Total Recoverable	ND		0.00300	1	07/13/2023 15:38	WG2091636
Zinc, Total Recoverable	0.0147	J	0.00500	1	07/13/2023 15:38	WG2091636



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 00:43	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 00:43	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 00:43	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 00:43	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 00:43	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 00:43	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 00:43	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 00:43	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 00:43	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 00:43	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 00:43	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 00:43	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 00:43	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 00:43	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 00:43	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 00:43	WG2093044
Acetone	ND		10.0	1	07/12/2023 00:43	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 00:43	WG2093044
Benzene	ND		1.00	1	07/12/2023 00:43	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 00:43	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 00:43	WG2093044
Bromoform	ND		1.00	1	07/12/2023 00:43	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 00:43	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 00:43	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 00:43	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 00:43	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 00:43	WG2093044
Chloroform	ND		1.00	1	07/12/2023 00:43	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 00:43	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 00:43	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 00:43	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 00:43	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 00:43	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 00:43	WG2093044
Styrene	ND		1.00	1	07/12/2023 00:43	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 00:43	WG2093044
Toluene	ND		1.00	1	07/12/2023 00:43	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 00:43	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 00:43	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 00:43	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 00:43	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 00:43	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 00:43	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 00:43	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 00:43	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 00:43	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 00:43	WG2093044
(S) 1,2-Dichloroethane-d4	104			70.0-130	07/12/2023 00:43	WG2093044
(S) 4-Bromofluorobenzene	96.3			77.0-126	07/12/2023 00:43	WG2093044
(S) Toluene-d8	103			80.0-120	07/12/2023 00:43	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

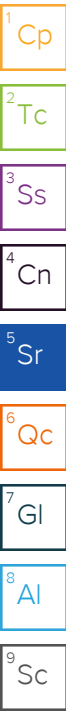
7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.76	su
Specific Conductance (on site)	514	umhos/cm
Temperature (on-site)	16.5	Deg. C
Turbidity (on-site)	4.4	NTU
Dissolved Oxygen (on-site)	0.3	mg/l
eH/ORP (On Site)	141.1	mV
Depth to water (DTW) (FROM TOC)	30.25	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	249		10.0	1	07/12/2023 14:00	WG2093348

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	241		10.0	1	07/12/2023 11:54	WG2093202
Alkalinity,Bicarbonate	241		10.0	1	07/12/2023 11:54	WG2093202
Alkalinity,Carbonate	ND		10.0	1	07/12/2023 11:54	WG2093202

Sample Narrative:

L1633566-04 WG2093202: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.125		0.100	1	07/12/2023 16:11	WG2091558

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.100	1	07/11/2023 20:00	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	4.98		3.00	1	07/18/2023 07:09	WG2096273
Sulfate	ND		5.00	1	07/18/2023 07:09	WG2096273

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	5.01		1.00	1	07/21/2023 20:38	WG2098147

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/18/2023 17:29	WG2092145
Barium, Total Recoverable	0.0252		0.00500	1	07/18/2023 17:29	WG2092145
Calcium, Total Recoverable	32.1		0.200	1	07/18/2023 17:29	WG2092145
Iron, Total Recoverable	1.14		0.0600	1	07/18/2023 17:29	WG2092145
Potassium, Total Recoverable	ND		3.00	1	07/18/2023 17:29	WG2092145

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	11.3		0.200	1	07/18/2023 17:29	WG2092145
Manganese, Total Recoverable	0.0373		0.00300	1	07/18/2023 17:29	WG2092145
Sodium, Total Recoverable	52.3		5.00	1	07/18/2023 17:29	WG2092145
Lead, Total Recoverable	ND		0.00500	1	07/18/2023 17:29	WG2092145
Selenium, Total Recoverable	ND		0.0100	1	07/18/2023 17:29	WG2092145

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/13/2023 15:41	WG2091636
Beryllium, Total Recoverable	ND		0.00100	1	07/13/2023 15:41	WG2091636
Cadmium, Total Recoverable	ND		0.00100	1	07/13/2023 15:41	WG2091636
Cobalt, Total Recoverable	ND		0.00300	1	07/13/2023 15:41	WG2091636
Chromium, Total Recoverable	ND		0.00300	1	07/13/2023 15:41	WG2091636
Copper, Total Recoverable	ND		0.00400	1	07/13/2023 15:41	WG2091636
Nickel, Total Recoverable	ND		0.00400	1	07/13/2023 15:41	WG2091636
Antimony, Total Recoverable	ND		0.00200	1	07/13/2023 15:41	WG2091636
Thallium, Total Recoverable	ND		0.00100	1	07/13/2023 15:41	WG2091636
Vanadium, Total Recoverable	ND		0.00300	1	07/13/2023 15:41	WG2091636
Zinc, Total Recoverable	ND		0.00500	1	07/13/2023 15:41	WG2091636

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 01:01	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 01:01	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 01:01	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 01:01	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 01:01	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 01:01	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 01:01	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 01:01	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 01:01	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 01:01	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 01:01	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 01:01	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 01:01	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 01:01	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 01:01	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 01:01	WG2093044
Acetone	ND		10.0	1	07/12/2023 01:01	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 01:01	WG2093044
Benzene	ND		1.00	1	07/12/2023 01:01	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 01:01	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 01:01	WG2093044
Bromoform	ND		1.00	1	07/12/2023 01:01	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 01:01	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 01:01	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 01:01	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 01:01	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 01:01	WG2093044
Chloroform	ND		1.00	1	07/12/2023 01:01	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 01:01	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 01:01	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 01:01	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 01:01	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 01:01	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 01:01	WG2093044
Styrene	ND		1.00	1	07/12/2023 01:01	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 01:01	WG2093044
Toluene	ND		1.00	1	07/12/2023 01:01	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 01:01	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 01:01	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 01:01	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 01:01	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 01:01	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 01:01	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 01:01	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 01:01	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 01:01	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 01:01	WG2093044
(S) 1,2-Dichloroethane-d4	107			70.0-130	07/12/2023 01:01	WG2093044
(S) 4-Bromofluorobenzene	96.3			77.0-126	07/12/2023 01:01	WG2093044
(S) Toluene-d8	103			80.0-120	07/12/2023 01:01	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.38	su
Specific Conductance (on site)	307	umhos/cm
Temperature (on-site)	18.8	Deg. C
Turbidity (on-site)	10.1	NTU
Dissolved Oxygen (on-site)	0.3	mg/l
eH/ORP (On Site)	185.7	mV
Depth to water (DTW) (FROM TOC)	23.51	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	160		10.0	1	07/12/2023 14:00	WG2093348

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	83.1		10.0	1	07/12/2023 11:58	WG2093202
Alkalinity,Bicarbonate	83.1		10.0	1	07/12/2023 11:58	WG2093202
Alkalinity,Carbonate	ND		10.0	1	07/12/2023 11:58	WG2093202

Sample Narrative:

L1633566-05 WG2093202: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 16:12	WG2091558

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.28		0.100	1	07/11/2023 20:01	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	17.4		3.00	1	07/18/2023 07:22	WG2096273
Sulfate	9.96		5.00	1	07/18/2023 07:22	WG2096273

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	2.90		1.00	1	07/21/2023 20:52	WG2098147

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/18/2023 17:38	WG2092145
Barium,Total Recoverable	0.180		0.00500	1	07/18/2023 17:38	WG2092145
Calcium, Total Recoverable	23.7		0.200	1	07/18/2023 17:38	WG2092145
Iron, Total Recoverable	1.19		0.0600	1	07/18/2023 17:38	WG2092145
Potassium, Total Recoverable	ND		3.00	1	07/18/2023 17:38	WG2092145

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	5.99		0.200	1	07/18/2023 17:38	WG2092145
Manganese, Total Recoverable	8.58		0.00300	1	07/18/2023 17:38	WG2092145
Sodium, Total Recoverable	10.0		5.00	1	07/18/2023 17:38	WG2092145
Lead, Total Recoverable	ND		0.00500	1	07/18/2023 17:38	WG2092145
Selenium, Total Recoverable	ND		0.0100	1	07/18/2023 17:38	WG2092145



Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/13/2023 15:45	WG2091636
Beryllium, Total Recoverable	ND		0.00100	1	07/13/2023 15:45	WG2091636
Cadmium, Total Recoverable	0.00367		0.00100	1	07/13/2023 15:45	WG2091636
Cobalt, Total Recoverable	0.0132		0.00300	1	07/13/2023 15:45	WG2091636
Chromium, Total Recoverable	ND		0.00300	1	07/13/2023 15:45	WG2091636
Copper, Total Recoverable	ND		0.00400	1	07/13/2023 15:45	WG2091636
Nickel, Total Recoverable	0.0388		0.00400	1	07/13/2023 15:45	WG2091636
Antimony, Total Recoverable	ND		0.00200	1	07/13/2023 15:45	WG2091636
Thallium, Total Recoverable	ND		0.00100	1	07/13/2023 15:45	WG2091636
Vanadium, Total Recoverable	ND		0.00300	1	07/13/2023 15:45	WG2091636
Zinc, Total Recoverable	0.0721		0.00500	1	07/13/2023 15:45	WG2091636



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 01:20	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 01:20	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 01:20	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 01:20	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 01:20	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 01:20	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 01:20	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 01:20	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 01:20	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 01:20	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 01:20	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 01:20	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 01:20	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 01:20	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 01:20	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 01:20	WG2093044
Acetone	ND		10.0	1	07/12/2023 01:20	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 01:20	WG2093044
Benzene	ND		1.00	1	07/12/2023 01:20	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 01:20	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 01:20	WG2093044
Bromoform	ND		1.00	1	07/12/2023 01:20	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 01:20	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 01:20	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 01:20	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 01:20	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 01:20	WG2093044
Chloroform	ND		1.00	1	07/12/2023 01:20	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 01:20	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 01:20	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 01:20	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 01:20	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 01:20	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 01:20	WG2093044
Styrene	ND		1.00	1	07/12/2023 01:20	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 01:20	WG2093044
Toluene	ND		1.00	1	07/12/2023 01:20	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 01:20	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 01:20	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 01:20	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 01:20	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 01:20	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 01:20	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 01:20	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 01:20	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 01:20	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 01:20	WG2093044
(S) 1,2-Dichloroethane-d4	106			70.0-130	07/12/2023 01:20	WG2093044
(S) 4-Bromofluorobenzene	95.3			77.0-126	07/12/2023 01:20	WG2093044
(S) Toluene-d8	101			80.0-120	07/12/2023 01:20	WG2093044

1
Cp

2
Tc

3
Ss

4
Cn

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Sr

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Qc

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Gl

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Al

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Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/11/2023 23:47	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/11/2023 23:47	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/11/2023 23:47	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/11/2023 23:47	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/11/2023 23:47	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/11/2023 23:47	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/11/2023 23:47	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/11/2023 23:47	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/11/2023 23:47	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/11/2023 23:47	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/11/2023 23:47	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/11/2023 23:47	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/11/2023 23:47	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/11/2023 23:47	WG2093044
2-Hexanone	ND		5.00	1	07/11/2023 23:47	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/11/2023 23:47	WG2093044
Acetone	ND		10.0	1	07/11/2023 23:47	WG2093044
Acrylonitrile	ND		20.0	1	07/11/2023 23:47	WG2093044
Benzene	ND		1.00	1	07/11/2023 23:47	WG2093044
Bromochloromethane	ND		1.00	1	07/11/2023 23:47	WG2093044
Bromodichloromethane	ND		1.00	1	07/11/2023 23:47	WG2093044
Bromoform	ND		1.00	1	07/11/2023 23:47	WG2093044
Bromomethane	ND		1.00	1	07/11/2023 23:47	WG2093044
Carbon disulfide	ND		1.00	1	07/11/2023 23:47	WG2093044
Carbon tetrachloride	ND		1.00	1	07/11/2023 23:47	WG2093044
Chlorobenzene	ND		1.00	1	07/11/2023 23:47	WG2093044
Chloroethane	ND		1.00	1	07/11/2023 23:47	WG2093044
Chloroform	ND		1.00	1	07/11/2023 23:47	WG2093044
Chloromethane	ND		1.00	1	07/11/2023 23:47	WG2093044
Dibromochloromethane	ND		1.00	1	07/11/2023 23:47	WG2093044
Dibromomethane	ND		1.00	1	07/11/2023 23:47	WG2093044
Ethylbenzene	ND		1.00	1	07/11/2023 23:47	WG2093044
Iodomethane	ND		1.00	1	07/11/2023 23:47	WG2093044
Methylene Chloride	ND		1.07	1	07/11/2023 23:47	WG2093044
Styrene	ND		1.00	1	07/11/2023 23:47	WG2093044
Tetrachloroethene	ND		1.00	1	07/11/2023 23:47	WG2093044
Toluene	ND		1.00	1	07/11/2023 23:47	WG2093044
Trichloroethene	ND		1.00	1	07/11/2023 23:47	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/11/2023 23:47	WG2093044
Vinyl acetate	ND		5.00	1	07/11/2023 23:47	WG2093044
Vinyl chloride	ND		1.00	1	07/11/2023 23:47	WG2093044
Xylenes, Total	ND		1.00	1	07/11/2023 23:47	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/11/2023 23:47	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/11/2023 23:47	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/11/2023 23:47	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/11/2023 23:47	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/11/2023 23:47	WG2093044
(S) 1,2-Dichloroethane-d4	99.4			70.0-130	07/11/2023 23:47	WG2093044
(S) 4-Bromofluorobenzene	93.3			77.0-126	07/11/2023 23:47	WG2093044
(S) Toluene-d8	107			80.0-120	07/11/2023 23:47	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3948623-1 07/12/23 14:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

1 Cp

2 Tc

3 Ss

L1633385-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1633385-04 07/12/23 14:00 • (DUP) R3948623-3 07/12/23 14:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1200	1190	1	1.51		5

4 Cn

5 Sr

6 Qc

L1633529-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633529-01 07/12/23 14:00 • (DUP) R3948623-4 07/12/23 14:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	302	325	1	7.34	J3	5

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3948623-2 07/12/23 14:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8540	97.0	77.3-123	

Method Blank (MB)

(MB) R3948253-1 07/12/23 10:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	3.59		2.71	20.0
Alkalinity,Bicarbonate	3.59		2.71	20.0
Alkalinity,Carbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1633566-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633566-01 07/12/23 11:21 • (DUP) R3948253-3 07/12/23 11:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	270	270	1	0.194		20
Alkalinity,Bicarbonate	270	270	1	0.194		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1633566-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1633566-05 07/12/23 11:58 • (DUP) R3948253-4 07/12/23 12:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	83.1	85.8	1	3.24		20
Alkalinity,Bicarbonate	83.1	85.8	1	3.24		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5



Laboratory Control Sample (LCS)

(LCS) R3948253-2 07/12/23 10:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Alkalinity	100	100	100	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3947890-1 07/12/23 15:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633382-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1633382-02 07/12/23 15:47 • (DUP) R3947890-5 07/12/23 15:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

L1633586-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633586-01 07/12/23 16:26 • (DUP) R3947890-7 07/12/23 16:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R3947890-2 07/12/23 15:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.69	102	90.0-110	

L1633382-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633382-01 07/12/23 15:42 • (MS) R3947890-3 07/12/23 15:44 • (MSD) R3947890-4 07/12/23 15:45

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	ND	5.23	5.19	105	104	1	90.0-110			0.672	10

L1633582-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633582-01 07/12/23 16:23 • (MS) R3947890-6 07/12/23 16:24

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.30	106	1	90.0-110	

Method Blank (MB)

(MB) R3947326-1 07/11/23 18:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Nitrate-Nitrite	ND		0.0197	0.100

¹Cp

²Tc

³Ss

L1633162-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1633162-02 07/11/23 19:08 • (DUP) R3947326-3 07/11/23 19:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	ND	ND	1	0.000		20

⁴Cn

⁵Sr

L1633566-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633566-01 07/11/23 19:35 • (DUP) R3947326-6 07/11/23 19:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	0.761	0.759	1	0.263		20

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3947326-2 07/11/23 18:59

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Nitrate-Nitrite	2.50	2.49	99.6	90.0-110	

⁹Sc

L1633162-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633162-02 07/11/23 19:08 • (MS) R3947326-4 07/11/23 19:14 • (MSD) R3947326-5 07/11/23 19:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Nitrate-Nitrite	2.50	ND	2.69	2.69	108	108	1	90.0-110			0.000	20

L1633566-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633566-01 07/11/23 19:35 • (MS) R3947326-7 07/11/23 19:37

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Nitrate-Nitrite	2.50	0.761	3.39	105	1	90.0-110	

Method Blank (MB)

(MB) R3947356-1 07/11/23 19:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Nitrate-Nitrite	ND		0.0197	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633570-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633570-01 07/11/23 20:02 • (DUP) R3947356-3 07/11/23 20:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	ND	ND	1	0.000		20

L1633864-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-08 07/11/23 20:23 • (DUP) R3947356-5 07/11/23 20:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3947356-2 07/11/23 19:58

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Nitrate-Nitrite	2.50	2.50	100	90.0-110	

L1633570-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633570-01 07/11/23 20:02 • (MS) R3947356-4 07/11/23 20:05

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Nitrate-Nitrite	2.50	ND	2.72	109	1	90.0-110	

L1633864-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633864-08 07/11/23 20:23 • (MS) R3947356-6 07/11/23 20:29 • (MSD) R3947356-7 07/11/23 20:30

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Nitrate-Nitrite	2.50	ND	2.73	2.65	109	106	1	90.0-110			2.97	20

Method Blank (MB)

(MB) R3949871-1 07/18/23 03:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	mg/l		mg/l	mg/l
Chloride	ND		0.0519	1.00
Sulfate	ND		0.0774	5.00

L1633529-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633529-01 07/18/23 04:00 • (DUP) R3949871-3 07/18/23 04:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	mg/l	mg/l	%	%		%
Chloride	ND	ND	1	0.0467		15

L1633579-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1633579-02 07/18/23 09:15 • (DUP) R3949871-6 07/18/23 09:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	mg/l	mg/l	%	%		%
Chloride	ND	ND	1	1.12		15
Sulfate	9.15	9.08	1	0.737		15

Laboratory Control Sample (LCS)

(LCS) R3949871-2 07/18/23 03:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	mg/l	mg/l	%	%	
Chloride	40.0	40.0	100	80.0-120	
Sulfate	40.0	39.7	99.3	80.0-120	

L1633529-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633529-01 07/18/23 04:00 • (MS) R3949871-4 07/18/23 04:26 • (MSD) R3949871-5 07/18/23 04:38

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	ND	50.7	51.6	98.0	99.7	1	80.0-120			1.68	15

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1633579-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633579-02 07/18/23 09:15 • (MS) R3949871-7 07/18/23 09:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	ND	49.6	97.2	1	80.0-120	
Sulfate	50.0	9.15	57.2	96.2	1	80.0-120	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3951482-2 07/21/23 13:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC	ND		0.102	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633321-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1633321-03 07/21/23 15:39 • (DUP) R3951482-5 07/21/23 15:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	2.42	2.44	1	0.659		20

L1633379-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633379-01 07/21/23 18:24 • (DUP) R3951482-8 07/21/23 18:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	4.48	4.86	1	8.11		20

Laboratory Control Sample (LCS)

(LCS) R3951482-1 07/21/23 12:51

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	25.0	24.8	99.3	85.0-115	

L1633321-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633321-02 07/21/23 14:48 • (MS) R3951482-3 07/21/23 15:07 • (MSD) R3951482-4 07/21/23 15:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	3.15	27.4	27.5	97.1	97.2	1	80.0-120			0.0729	20

L1633326-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633326-04 07/21/23 17:35 • (MS) R3951482-6 07/21/23 17:52 • (MSD) R3951482-7 07/21/23 18:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	1.87	25.9	27.3	96.2	102	1	80.0-120			5.30	20

Method Blank (MB)

(MB) R3949977-1 07/18/23 17:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silver, Total Recoverable	ND		0.00280	0.00500
Barium, Total Recoverable	ND		0.00170	0.00500
Calcium, Total Recoverable	0.0841	IL	0.0463	1.00
Iron, Total Recoverable	0.0190	IL	0.0141	0.100
Potassium, Total Recoverable	ND		0.102	1.00
Magnesium, Total Recoverable	0.0484		0.0111	1.00
Manganese, Total Recoverable	ND		0.00120	0.0100
Sodium, Total Recoverable	0.105		0.0111	1.00
Lead, Total Recoverable	ND		0.00190	0.00500
Selenium, Total Recoverable	ND		0.00740	0.0100

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3949977-2 07/18/23 17:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver, Total Recoverable	0.200	0.200	100	80.0-120	
Barium, Total Recoverable	1.00	1.05	105	80.0-120	
Calcium, Total Recoverable	10.0	9.93	99.3	80.0-120	
Iron, Total Recoverable	10.0	10.0	100	80.0-120	
Potassium, Total Recoverable	10.0	9.71	97.1	80.0-120	
Magnesium, Total Recoverable	10.0	9.66	96.6	80.0-120	
Manganese, Total Recoverable	1.00	1.01	101	80.0-120	
Sodium, Total Recoverable	10.0	10.1	101	80.0-120	
Lead, Total Recoverable	1.00	0.989	98.9	80.0-120	
Selenium, Total Recoverable	1.00	0.990	99.0	80.0-120	

7 Gl

8 Al

9 Sc

L1633584-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633584-04 07/18/23 17:10 • (MS) R3949977-4 07/18/23 17:16 • (MSD) R3949977-5 07/18/23 17:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver, Total Recoverable	0.200	ND	0.203	0.205	101	103	1	75.0-125			1.21	20
Barium, Total Recoverable	1.00	0.0282	1.05	1.06	103	104	1	75.0-125			0.846	20
Calcium, Total Recoverable	10.0	91.0	98.6	98.6	75.6	75.8	1	75.0-125			0.0183	20
Iron, Total Recoverable	10.0	1.25	11.1	11.1	98.2	98.9	1	75.0-125			0.618	20
Potassium, Total Recoverable	10.0	12.1	21.6	21.7	95.1	95.5	1	75.0-125			0.167	20
Magnesium, Total Recoverable	10.0	9.69	19.2	19.1	94.9	94.3	1	75.0-125			0.300	20
Manganese, Total Recoverable	1.00	0.0310	1.01	1.02	98.0	99.2	1	75.0-125			1.21	20

L1633584-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633584-04 07/18/23 17:10 • (MS) R3949977-4 07/18/23 17:16 • (MSD) R3949977-5 07/18/23 17:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sodium, Total Recoverable	10.0	109	117	116	75.7	71.9	1	75.0-125		V	0.328	20
Lead, Total Recoverable	1.00	ND	0.994	0.999	99.4	99.9	1	75.0-125			0.430	20
Selenium, Total Recoverable	1.00	ND	1.02	1.04	102	104	1	75.0-125			2.21	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3948369-1 07/13/23 13:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic, Total Recoverable	ND	↓	0.000250	0.00200
Beryllium, Total Recoverable	0.000193	↓	0.000120	0.00200
Cadmium, Total Recoverable	0.000179	↓	0.000160	0.00100
Cobalt, Total Recoverable	ND	↓	0.000260	0.00200
Chromium, Total Recoverable	ND		0.000540	0.00200
Copper, Total Recoverable	ND		0.000520	0.00500
Nickel, Total Recoverable	0.000380		0.000350	0.00200
Antimony, Total Recoverable	ND		0.000754	0.00200
Thallium, Total Recoverable	0.000298	↓	0.000190	0.00200
Vanadium, Total Recoverable	0.000281		0.000180	0.00500
Zinc, Total Recoverable	0.00362	↓	0.00256	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3948369-2 07/13/23 13:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic, Total Recoverable	0.0500	0.0487	97.5	80.0-120	
Beryllium, Total Recoverable	0.0500	0.0474	94.8	80.0-120	
Cadmium, Total Recoverable	0.0500	0.0525	105	80.0-120	
Cobalt, Total Recoverable	0.0500	0.0508	102	80.0-120	
Chromium, Total Recoverable	0.0500	0.0495	99.0	80.0-120	
Copper, Total Recoverable	0.0500	0.0478	95.5	80.0-120	
Nickel, Total Recoverable	0.0500	0.0504	101	80.0-120	
Antimony, Total Recoverable	0.0500	0.0470	93.9	80.0-120	
Thallium, Total Recoverable	0.0500	0.0529	106	80.0-120	
Vanadium, Total Recoverable	0.0500	0.0502	100	80.0-120	
Zinc, Total Recoverable	0.0500	0.0533	107	80.0-120	

L1633331-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633331-02 07/13/23 13:17 • (MS) R3948369-5 07/13/23 13:27 • (MSD) R3948369-6 07/13/23 13:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, Total Recoverable	0.0500	ND	0.0481	0.0526	96.3	105	20	75.0-125			8.86	20
Beryllium, Total Recoverable	0.0500	ND	0.0464	0.0476	92.8	95.2	20	75.0-125			2.54	20
Cadmium, Total Recoverable	0.0500	ND	0.0461	0.0509	92.1	102	20	75.0-125			10.0	20
Cobalt, Total Recoverable	0.0500	ND	0.0446	0.0475	89.2	95.0	20	75.0-125			6.32	20
Chromium, Total Recoverable	0.0500	ND	0.0473	0.0490	94.6	98.0	20	75.0-125			3.58	20

L1633331-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633331-02 07/13/23 13:17 • (MS) R3948369-5 07/13/23 13:27 • (MSD) R3948369-6 07/13/23 13:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Copper, Total Recoverable	0.0500	0.101	0.139	0.152	76.1	102	20	75.0-125			8.90	20
Nickel, Total Recoverable	0.0500	ND	0.0452	0.0474	90.3	94.8	20	75.0-125			4.87	20
Antimony, Total Recoverable	0.0500	ND	0.0537	0.0526	107	105	20	75.0-125			2.03	20
Thallium, Total Recoverable	0.0500	ND	0.0449	0.0482	89.8	96.5	20	75.0-125			7.14	20
Vanadium, Total Recoverable	0.0500	0.00391	0.0486	0.0540	97.3	108	20	75.0-125			10.4	20
Zinc, Total Recoverable	0.0500	ND	0.0621	0.0622	124	124	20	75.0-125			0.286	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3947814-2 07/11/23 20:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.0940	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichlorobenzene	ND		0.101	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
1,4-Dichlorobenzene	ND		0.121	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	ND		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromochloromethane	ND		0.145	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromoform	ND		0.186	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	ND		0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	ND		0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3947814-2 07/11/23 20:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Vinyl chloride	ND		0.118	0.500
Xylenes, Total	ND		0.316	1.50
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 1,2-Dichloroethane-d4	94.4			70.0-130
(S) 4-Bromofluorobenzene	95.7			77.0-126
(S) Toluene-d8	108			80.0-120

Laboratory Control Sample (LCS)

(LCS) R3947814-1 07/11/23 19:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1,2-Tetrachloroethane	5.00	4.13	82.6	75.0-125	
1,1,1-Trichloroethane	5.00	4.06	81.2	73.0-124	
1,1,2,2-Tetrachloroethane	5.00	4.94	98.8	65.0-130	
1,1,2-Trichloroethane	5.00	4.30	86.0	80.0-120	
1,1-Dichloroethane	5.00	4.23	84.6	70.0-126	
1,1-Dichloroethene	5.00	4.25	85.0	71.0-124	
1,2,3-Trichloropropane	5.00	4.99	99.8	73.0-130	
1,2-Dibromo-3-Chloropropane	5.00	3.88	77.6	58.0-134	
1,2-Dibromoethane	5.00	4.58	91.6	80.0-122	
1,2-Dichlorobenzene	5.00	4.46	89.2	79.0-121	
1,2-Dichloroethane	5.00	4.89	97.8	70.0-128	
1,2-Dichloropropane	5.00	4.19	83.8	77.0-125	
1,4-Dichlorobenzene	5.00	4.70	94.0	79.0-120	
2-Butanone (MEK)	25.0	21.4	85.6	44.0-160	
2-Hexanone	25.0	23.7	94.8	67.0-149	
4-Methyl-2-pentanone (MIBK)	25.0	24.0	96.0	68.0-142	
Acetone	25.0	18.8	75.2	19.0-160	
Acrylonitrile	25.0	21.5	86.0	55.0-149	
Benzene	5.00	4.47	89.4	70.0-123	
Bromochloromethane	5.00	4.44	88.8	76.0-122	
Bromodichloromethane	5.00	4.12	82.4	75.0-120	
Bromoform	5.00	4.16	83.2	68.0-132	
Bromomethane	5.00	4.03	80.6	10.0-160	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3947814-1 07/11/23 19:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Carbon disulfide	5.00	3.65	73.0	61.0-128	
Carbon tetrachloride	5.00	4.29	85.8	68.0-126	
Chlorobenzene	5.00	4.26	85.2	80.0-121	
Chloroethane	5.00	4.22	84.4	47.0-150	
Chloroform	5.00	4.12	82.4	73.0-120	
Chloromethane	5.00	4.18	83.6	41.0-142	
Dibromochloromethane	5.00	4.40	88.0	77.0-125	
Dibromomethane	5.00	4.18	83.6	80.0-120	
Ethylbenzene	5.00	4.40	88.0	79.0-123	
Iodomethane	25.0	21.3	85.2	33.0-147	
Methylene Chloride	5.00	4.35	87.0	67.0-120	
Styrene	5.00	4.33	86.6	73.0-130	
Tetrachloroethene	5.00	4.84	96.8	72.0-132	
Toluene	5.00	4.51	90.2	79.0-120	
Trichloroethene	5.00	4.47	89.4	78.0-124	
Trichlorofluoromethane	5.00	4.51	90.2	59.0-147	
Vinyl acetate	25.0	25.1	100	11.0-160	
Vinyl chloride	5.00	4.44	88.8	67.0-131	
Xylenes, Total	15.0	12.9	86.0	79.0-123	
cis-1,2-Dichloroethene	5.00	4.00	80.0	73.0-120	
cis-1,3-Dichloropropene	5.00	4.36	87.2	80.0-123	
trans-1,2-Dichloroethene	5.00	4.16	83.2	73.0-120	
trans-1,3-Dichloropropene	5.00	4.73	94.6	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	4.67	93.4	33.0-144	
(S) 1,2-Dichloroethane-d4			103	70.0-130	
(S) 4-Bromofluorobenzene			96.4	77.0-126	
(S) Toluene-d8			105	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

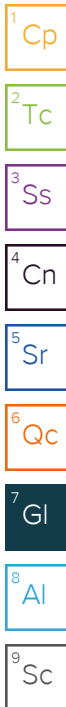
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Eco-Vista (Tontitown)LF

Sample Delivery Group: L1633891
Samples Received: 07/11/2023
Project Number: 200
Description: Eco-Vista - GW-July
Site: AR03
Report To: Jodi Reynolds
88 Joyce Lane
Russellville, AR 72801

Entire Report Reviewed By:

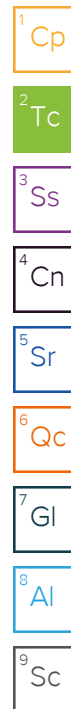


Stacy Kennedy
Project Manager

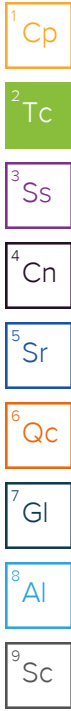
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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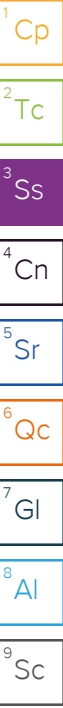


SAMPLE SUMMARY

NE-10D L1633891-01 GW

Collected by Chris Fincher Collected date/time 07/08/23 14:00 Received date/time 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093592	1	07/13/23 09:06	07/13/23 10:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 11:52	07/17/23 11:52	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:34	07/12/23 13:34	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	1	07/11/23 21:05	07/11/23 21:05	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	1	07/18/23 14:35	07/18/23 14:35	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/22/23 19:28	07/22/23 19:28	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 11:41	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092923	1	07/12/23 08:55	07/12/23 14:11	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093479	1	07/12/23 16:34	07/12/23 16:34	DWR	Mt. Juliet, TN



MW-17 L1633891-02 GW

Collected by Chris Fincher Collected date/time 07/08/23 15:15 Received date/time 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093348	1	07/12/23 12:57	07/12/23 14:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 11:56	07/17/23 11:56	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:36	07/12/23 13:36	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	1	07/11/23 21:14	07/11/23 21:14	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	1	07/18/23 14:52	07/18/23 14:52	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/21/23 23:12	07/21/23 23:12	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 11:31	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2115485	1	08/17/23 07:53	08/17/23 14:54	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092923	1	07/12/23 08:55	07/12/23 14:46	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093479	1	07/12/23 16:56	07/12/23 16:56	DWR	Mt. Juliet, TN

MW-2N L1633891-03 GW

Collected by Chris Fincher Collected date/time 07/08/23 16:35 Received date/time 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093592	1	07/13/23 09:06	07/13/23 10:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 12:02	07/17/23 12:02	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:37	07/12/23 13:37	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	2	07/11/23 21:15	07/11/23 21:15	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	1	07/18/23 15:09	07/18/23 15:09	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/21/23 23:37	07/21/23 23:37	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 11:44	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2115485	1	08/17/23 07:53	08/17/23 14:43	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092923	1	07/12/23 08:55	07/12/23 14:49	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093479	1	07/12/23 17:18	07/12/23 17:18	DWR	Mt. Juliet, TN

MW-1N L1633891-04 GW

Collected by Chris Fincher Collected date/time 07/08/23 17:35 Received date/time 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093592	1	07/13/23 09:06	07/13/23 10:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 12:06	07/17/23 12:06	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:39	07/12/23 13:39	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	1	07/11/23 21:16	07/11/23 21:16	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	1	07/18/23 15:26	07/18/23 15:26	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/22/23 00:29	07/22/23 00:29	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 11:47	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2115485	1	08/17/23 07:53	08/17/23 14:57	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092923	1	07/12/23 08:55	07/12/23 14:53	LD	Mt. Juliet, TN

SAMPLE SUMMARY

MW-1N L1633891-04 GW

Collected by Chris Fincher Collected date/time 07/08/23 17:35 Received date/time 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093479	1	07/12/23 17:39	07/12/23 17:39	DWR	Mt. Juliet, TN



MW-11N L1633891-05 GW

Collected by Chris Fincher Collected date/time 07/08/23 18:35 Received date/time 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093348	1	07/12/23 12:57	07/12/23 14:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 12:22	07/17/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092801	1	07/12/23 14:06	07/12/23 14:06	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	1	07/11/23 21:17	07/11/23 21:17	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	1	07/18/23 15:43	07/18/23 15:43	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/22/23 00:41	07/22/23 00:41	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 11:49	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2115485	1	08/17/23 07:53	08/17/23 15:00	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092923	1	07/12/23 08:55	07/12/23 14:56	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093479	1	07/12/23 18:01	07/12/23 18:01	DWR	Mt. Juliet, TN

LCS-1 L1633891-06 GW

Collected by Chris Fincher Collected date/time 07/09/23 08:00 Received date/time 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	1000	07/12/23 14:09	07/12/23 14:09	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	100	07/18/23 16:00	07/18/23 16:00	KMC	Mt. Juliet, TN

LCS-2 L1633891-07 GW

Collected by Chris Fincher Collected date/time 07/09/23 08:30 Received date/time 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	1000	07/12/23 14:10	07/12/23 14:10	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	10	07/18/23 16:17	07/18/23 16:17	KMC	Mt. Juliet, TN

LCS-3 L1633891-08 GW

Collected by Chris Fincher Collected date/time 07/09/23 09:00 Received date/time 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	1000	07/12/23 14:12	07/12/23 14:12	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	10	07/18/23 16:34	07/18/23 16:34	KMC	Mt. Juliet, TN

LCS-4 L1633891-09 GW

Collected by Chris Fincher Collected date/time 07/09/23 09:30 Received date/time 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	1000	07/12/23 14:13	07/12/23 14:13	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	10	07/18/23 16:51	07/18/23 16:51	KMC	Mt. Juliet, TN

SAMPLE SUMMARY

LCS-5 L1633891-10 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 10:00

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	1000	07/12/23 14:15	07/12/23 14:15	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	100	07/18/23 17:41	07/18/23 17:41	KMC	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

LCS-6 L1633891-11 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 10:30

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	1000	07/12/23 14:16	07/12/23 14:16	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	10	07/18/23 17:58	07/18/23 17:58	KMC	Mt. Juliet, TN

LCS-7 L1633891-12 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 11:00

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	5000	07/12/23 14:22	07/12/23 14:22	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	50	07/18/23 18:15	07/18/23 18:15	KMC	Mt. Juliet, TN

LCS-8 L1633891-13 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 11:30

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	100	07/12/23 14:24	07/12/23 14:24	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	10	07/18/23 18:49	07/18/23 18:49	KMC	Mt. Juliet, TN

LCS-9 L1633891-14 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 13:00

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	200	07/12/23 14:27	07/12/23 14:27	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	100	07/19/23 00:49	07/19/23 00:49	GEB	Mt. Juliet, TN

LCS-10 L1633891-15 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 13:30

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	5000	07/12/23 14:28	07/12/23 14:28	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	100	07/19/23 01:05	07/19/23 01:05	GEB	Mt. Juliet, TN

LCS-11 L1633891-16 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 14:00

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	5000	07/12/23 14:30	07/12/23 14:30	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	100	07/19/23 01:22	07/19/23 01:22	GEB	Mt. Juliet, TN

SAMPLE SUMMARY

LCS-12 L1633891-17 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 14:30

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2092801	1000	07/12/23 14:31	07/12/23 14:31	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	100	07/19/23 01:38	07/19/23 01:38	GEB	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

LDS-1 L1633891-18 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 08:15

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 12:27	07/17/23 12:27	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092801	5	07/12/23 14:33	07/12/23 14:33	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	1	07/11/23 21:19	07/11/23 21:19	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	1	07/19/23 02:29	07/19/23 02:29	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	5	07/19/23 03:02	07/19/23 03:02	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 11:58	ZSA	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

LDS-2 L1633891-19 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 08:45

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 12:32	07/17/23 12:32	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092801	1	07/12/23 14:34	07/12/23 14:34	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	1	07/11/23 21:20	07/11/23 21:20	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	1	07/19/23 03:18	07/19/23 03:18	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	5	07/19/23 03:35	07/19/23 03:35	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 12:01	ZSA	Mt. Juliet, TN

9 Sc

LDS-3 L1633891-20 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 09:15

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2095980	1	07/17/23 10:18	07/17/23 10:18	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092801	100	07/12/23 15:06	07/12/23 15:06	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	10	07/11/23 21:21	07/11/23 21:21	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	20	07/19/23 03:51	07/19/23 03:51	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 12:03	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	5	07/11/23 20:07	07/21/23 02:19	CCE	Mt. Juliet, TN

LDS-4 L1633891-21 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 09:45

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2095980	1	07/17/23 10:26	07/17/23 10:26	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092801	5000	07/12/23 14:46	07/12/23 14:46	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	10	07/11/23 21:22	07/11/23 21:22	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	20	07/19/23 04:07	07/19/23 04:07	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 12:06	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	5	07/11/23 20:07	07/21/23 02:21	CCE	Mt. Juliet, TN

SAMPLE SUMMARY

LDS-5 L1633891-22 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 10:15

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2095980	1	07/17/23 10:33	07/17/23 10:33	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092801	500	07/12/23 14:48	07/12/23 14:48	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	10	07/11/23 21:24	07/11/23 21:24	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	20	07/19/23 04:23	07/19/23 04:23	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 12:09	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	5	07/11/23 20:07	07/21/23 02:24	CCE	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

LDS-6 L1633891-23 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 10:45

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2095980	1	07/17/23 10:41	07/17/23 10:41	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092801	1000	07/12/23 14:49	07/12/23 14:49	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	1	07/11/23 21:29	07/11/23 21:29	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	20	07/19/23 04:40	07/19/23 04:40	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 12:12	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	5	07/11/23 20:07	07/21/23 02:27	CCE	Mt. Juliet, TN

LDS-7 L1633891-24 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 11:15

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2095980	1	07/17/23 10:48	07/17/23 10:48	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092801	1000	07/12/23 14:51	07/12/23 14:51	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	1	07/11/23 21:30	07/11/23 21:30	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	10	07/19/23 04:56	07/19/23 04:56	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 12:14	ZSA	Mt. Juliet, TN

LDS-8 L1633891-25 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 11:45

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2095980	1	07/17/23 10:53	07/17/23 10:53	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2094632	10	07/13/23 23:49	07/13/23 23:49	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	1	07/11/23 21:31	07/11/23 21:31	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	5	07/19/23 05:45	07/19/23 05:45	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 12:17	ZSA	Mt. Juliet, TN

LDS-9 L1633891-26 GW

Collected by
Chris Fincher

Collected date/time
07/09/23 13:15

Received date/time
07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2095980	1	07/17/23 11:00	07/17/23 11:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2094642	20	07/16/23 00:16	07/16/23 00:16	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	1	07/11/23 21:33	07/11/23 21:33	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	1	07/19/23 06:02	07/19/23 06:02	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 12:20	ZSA	Mt. Juliet, TN

SAMPLE SUMMARY

LDS-10 L1633891-27 GW

Collected by: Chris Fincher
 Collected date/time: 07/09/23 13:45
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2095980	1	07/17/23 11:26	07/17/23 11:26	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2094637	5000	07/14/23 22:41	07/14/23 22:41	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	10	07/11/23 21:37	07/11/23 21:37	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097280	20	07/19/23 06:18	07/19/23 06:18	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 12:23	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	5	07/11/23 20:07	07/21/23 02:30	CCE	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

LDS-12 L1633891-28 GW

Collected by: Chris Fincher
 Collected date/time: 07/09/23 14:45
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2095980	1	07/17/23 11:34	07/17/23 11:34	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2094637	100	07/14/23 23:26	07/14/23 23:26	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092818	10	07/11/23 21:38	07/11/23 21:38	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2097563	100	07/19/23 12:07	07/19/23 12:07	KMC	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	1	07/11/23 20:07	07/19/23 10:44	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092917	5	07/11/23 20:07	07/21/23 02:16	CCE	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Stacy Kennedy
Project Manager

Report Revision History

Level II Report - Version 1: 07/26/23 12:42

Project Comments

Customer requested review of selenium method 200.7. -02, -03, -04, -05 selenium were reanalyzed after data review request. The results in this report have been updated to reflect the reanalysis results. SK 8/25/23

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Sample Delivery Group (SDG) Narrative

The laboratory analysis was performed from an unpreserved, insufficiently or inadequately preserved sample.

Batch	Method	Lab Sample ID
WG2092801	350.1	L1633891-06, 07, 08, 09, 10, 11, 12, 14, 15, 16, 17, 20, 21, 22, 23
WG2092818	353.2	L1633891-20, 21, 22, 23, 27, 28
WG2094637	350.1	L1633891-27, 28

Gravimetric Analysis by Method 2540 C-2011

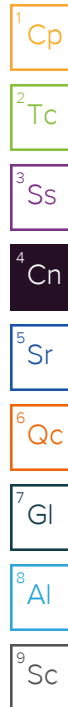
The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2093348	(DUP) R3948623-4	Dissolved Solids

Wet Chemistry by Method 350.1

RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Batch	Lab Sample ID	Analytes
WG2092799	(DUP) R3947829-7	Ammonia Nitrogen



CASE NARRATIVE

Wet Chemistry by Method 9056A

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2097280	(MS) R3950233-4, L1633891-18	Chloride
WG2097563	(MS) R3950797-3, (MSD) R3950797-4	Sulfate

Volatile Organic Compounds (GC/MS) by Method 8260B

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2093479	(LCS) R3948671-1, L1633891-01, 02, 03, 04, 05	Vinyl acetate

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.78	su
Specific Conductance (on site)	238	umhos/cm
Temperature (on-site)	17.9	Deg. C
Turbidity (on-site)	9.1	NTU
Dissolved Oxygen (on-site)	8.1	mg/l
eH/ORP (On Site)	161.5	mV
Depth to water (DTW) (FROM TOC)	101.28	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	121		10.0	1	07/13/2023 10:05	WG2093592

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	102		10.0	1	07/17/2023 11:52	WG2095978
Alkalinity,Bicarbonate	102		10.0	1	07/17/2023 11:52	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 11:52	WG2095978

Sample Narrative:

L1633891-01 WG2095978: Endpoint pH 4.5

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:34	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.803		0.100	1	07/11/2023 21:05	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	3.50		3.00	1	07/18/2023 14:35	WG2096724
Sulfate	ND		5.00	1	07/18/2023 14:35	WG2096724

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/22/2023 19:28	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/19/2023 11:41	WG2092917
Barium, Total Recoverable	0.0206		0.00500	1	07/19/2023 11:41	WG2092917
Calcium, Total Recoverable	39.8		0.200	1	07/19/2023 11:41	WG2092917
Iron, Total Recoverable	ND		0.0600	1	07/19/2023 11:41	WG2092917
Potassium, Total Recoverable	ND		3.00	1	07/19/2023 11:41	WG2092917

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	1.08		0.200	1	07/19/2023 11:41	WG2092917
Manganese, Total Recoverable	0.00956	J	0.00300	1	07/19/2023 11:41	WG2092917
Sodium, Total Recoverable	ND		5.00	1	07/19/2023 11:41	WG2092917
Lead, Total Recoverable	ND		0.00500	1	07/19/2023 11:41	WG2092917
Selenium, Total Recoverable	ND		0.0100	1	07/19/2023 11:41	WG2092917

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/12/2023 14:11	WG2092923
Beryllium, Total Recoverable	ND		0.00100	1	07/12/2023 14:11	WG2092923
Cadmium, Total Recoverable	ND		0.00100	1	07/12/2023 14:11	WG2092923
Cobalt, Total Recoverable	ND		0.00300	1	07/12/2023 14:11	WG2092923
Chromium, Total Recoverable	ND		0.00300	1	07/12/2023 14:11	WG2092923
Copper, Total Recoverable	ND		0.00400	1	07/12/2023 14:11	WG2092923
Nickel, Total Recoverable	ND		0.00400	1	07/12/2023 14:11	WG2092923
Antimony, Total Recoverable	ND		0.00200	1	07/12/2023 14:11	WG2092923
Thallium, Total Recoverable	ND		0.00100	1	07/12/2023 14:11	WG2092923
Vanadium, Total Recoverable	ND		0.00300	1	07/12/2023 14:11	WG2092923
Zinc, Total Recoverable	0.00548	J	0.00500	1	07/12/2023 14:11	WG2092923

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 16:34	WG2093479
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 16:34	WG2093479
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 16:34	WG2093479
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 16:34	WG2093479
1,1-Dichloroethane	ND		1.00	1	07/12/2023 16:34	WG2093479
1,1-Dichloroethene	ND		1.00	1	07/12/2023 16:34	WG2093479
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 16:34	WG2093479
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 16:34	WG2093479
1,2-Dibromoethane	ND		1.00	1	07/12/2023 16:34	WG2093479
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 16:34	WG2093479
1,2-Dichloroethane	ND		1.00	1	07/12/2023 16:34	WG2093479
1,2-Dichloropropane	ND		1.00	1	07/12/2023 16:34	WG2093479
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 16:34	WG2093479
2-Butanone (MEK)	ND		5.00	1	07/12/2023 16:34	WG2093479
2-Hexanone	ND		5.00	1	07/12/2023 16:34	WG2093479
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 16:34	WG2093479
Acetone	ND		10.0	1	07/12/2023 16:34	WG2093479
Acrylonitrile	ND		20.0	1	07/12/2023 16:34	WG2093479
Benzene	ND		1.00	1	07/12/2023 16:34	WG2093479
Bromochloromethane	ND		1.00	1	07/12/2023 16:34	WG2093479
Bromodichloromethane	ND		1.00	1	07/12/2023 16:34	WG2093479
Bromoform	ND		1.00	1	07/12/2023 16:34	WG2093479
Bromomethane	ND		1.00	1	07/12/2023 16:34	WG2093479
Carbon disulfide	ND		1.00	1	07/12/2023 16:34	WG2093479
Carbon tetrachloride	ND		1.00	1	07/12/2023 16:34	WG2093479
Chlorobenzene	ND		1.00	1	07/12/2023 16:34	WG2093479
Chloroethane	ND		1.00	1	07/12/2023 16:34	WG2093479
Chloroform	ND		1.00	1	07/12/2023 16:34	WG2093479
Chloromethane	ND		1.00	1	07/12/2023 16:34	WG2093479
Dibromochloromethane	ND		1.00	1	07/12/2023 16:34	WG2093479
Dibromomethane	ND		1.00	1	07/12/2023 16:34	WG2093479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/12/2023 16:34	WG2093479	¹ Cp
Iodomethane	ND		1.00	1	07/12/2023 16:34	WG2093479	² Tc
Methylene Chloride	ND		1.07	1	07/12/2023 16:34	WG2093479	
Styrene	ND		1.00	1	07/12/2023 16:34	WG2093479	³ Ss
Tetrachloroethene	ND		1.00	1	07/12/2023 16:34	WG2093479	
Toluene	ND		1.00	1	07/12/2023 16:34	WG2093479	⁴ Cn
Trichloroethene	ND		1.00	1	07/12/2023 16:34	WG2093479	
Trichlorofluoromethane	ND		1.00	1	07/12/2023 16:34	WG2093479	
Vinyl acetate	ND	<u>J4</u>	5.00	1	07/12/2023 16:34	WG2093479	⁵ Sr
Vinyl chloride	ND		1.00	1	07/12/2023 16:34	WG2093479	
Xylenes, Total	ND		1.00	1	07/12/2023 16:34	WG2093479	⁶ Qc
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 16:34	WG2093479	
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 16:34	WG2093479	
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 16:34	WG2093479	⁷ Gl
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 16:34	WG2093479	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 16:34	WG2093479	⁸ Al
(S) 1,2-Dichloroethane-d4	105			70.0-130	07/12/2023 16:34	WG2093479	
(S) 4-Bromofluorobenzene	90.8			77.0-126	07/12/2023 16:34	WG2093479	
(S) Toluene-d8	94.2			80.0-120	07/12/2023 16:34	WG2093479	⁹ Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.63	su
Specific Conductance (on site)	282	umhos/cm
Temperature (on-site)	19.6	Deg. C
Turbidity (on-site)	11.6	NTU
Dissolved Oxygen (on-site)	7.4	mg/l
eH/ORP (On Site)	181	mV
Depth to water (DTW) (FROM TOC)	60.3	ft

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	154		10.0	1	07/12/2023 14:00	WG2093348

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	102		10.0	1	07/17/2023 11:56	WG2095978
Alkalinity,Bicarbonate	102		10.0	1	07/17/2023 11:56	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 11:56	WG2095978

Sample Narrative:

L1633891-02 WG2095978: Endpoint pH 4.5

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:36	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.45		0.100	1	07/11/2023 21:14	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	6.95		3.00	1	07/18/2023 14:52	WG2096724
Sulfate	13.5		5.00	1	07/18/2023 14:52	WG2096724

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.06		1.00	1	07/21/2023 23:12	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/19/2023 11:31	WG2092917
Barium,Total Recoverable	0.0338		0.00500	1	07/19/2023 11:31	WG2092917
Calcium, Total Recoverable	36.1		0.200	1	07/19/2023 11:31	WG2092917
Iron, Total Recoverable	ND		0.0600	1	07/19/2023 11:31	WG2092917
Potassium, Total Recoverable	ND		3.00	1	07/19/2023 11:31	WG2092917

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	2.64		0.200	1	07/19/2023 11:31	WG2092917
Manganese, Total Recoverable	0.0108		0.00300	1	07/19/2023 11:31	WG2092917
Sodium, Total Recoverable	10.8		5.00	1	07/19/2023 11:31	WG2092917
Lead, Total Recoverable	ND		0.00500	1	07/19/2023 11:31	WG2092917
Selenium, Total Recoverable	ND		0.0100	1	08/17/2023 14:54	WG2115485

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/12/2023 14:46	WG2092923
Beryllium, Total Recoverable	ND		0.00100	1	07/12/2023 14:46	WG2092923
Cadmium, Total Recoverable	ND		0.00100	1	07/12/2023 14:46	WG2092923
Cobalt, Total Recoverable	ND		0.00300	1	07/12/2023 14:46	WG2092923
Chromium, Total Recoverable	ND		0.00300	1	07/12/2023 14:46	WG2092923
Copper, Total Recoverable	ND		0.00400	1	07/12/2023 14:46	WG2092923
Nickel, Total Recoverable	ND		0.00400	1	07/12/2023 14:46	WG2092923
Antimony, Total Recoverable	ND		0.00200	1	07/12/2023 14:46	WG2092923
Thallium, Total Recoverable	ND		0.00100	1	07/12/2023 14:46	WG2092923
Vanadium, Total Recoverable	ND		0.00300	1	07/12/2023 14:46	WG2092923
Zinc, Total Recoverable	ND		0.00500	1	07/12/2023 14:46	WG2092923

Volatile Organic Compounds (GC/MS) by Method 8260B

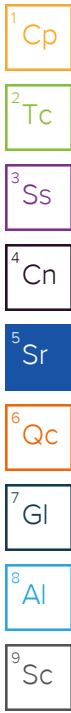
Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 16:56	WG2093479
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 16:56	WG2093479
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 16:56	WG2093479
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 16:56	WG2093479
1,1-Dichloroethane	ND		1.00	1	07/12/2023 16:56	WG2093479
1,1-Dichloroethene	ND		1.00	1	07/12/2023 16:56	WG2093479
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 16:56	WG2093479
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 16:56	WG2093479
1,2-Dibromoethane	ND		1.00	1	07/12/2023 16:56	WG2093479
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 16:56	WG2093479
1,2-Dichloroethane	ND		1.00	1	07/12/2023 16:56	WG2093479
1,2-Dichloropropane	ND		1.00	1	07/12/2023 16:56	WG2093479
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 16:56	WG2093479
2-Butanone (MEK)	ND		5.00	1	07/12/2023 16:56	WG2093479
2-Hexanone	ND		5.00	1	07/12/2023 16:56	WG2093479
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 16:56	WG2093479
Acetone	ND		10.0	1	07/12/2023 16:56	WG2093479
Acrylonitrile	ND		20.0	1	07/12/2023 16:56	WG2093479
Benzene	ND		1.00	1	07/12/2023 16:56	WG2093479
Bromochloromethane	ND		1.00	1	07/12/2023 16:56	WG2093479
Bromodichloromethane	ND		1.00	1	07/12/2023 16:56	WG2093479
Bromoform	ND		1.00	1	07/12/2023 16:56	WG2093479
Bromomethane	ND		1.00	1	07/12/2023 16:56	WG2093479
Carbon disulfide	ND		1.00	1	07/12/2023 16:56	WG2093479
Carbon tetrachloride	ND		1.00	1	07/12/2023 16:56	WG2093479
Chlorobenzene	ND		1.00	1	07/12/2023 16:56	WG2093479
Chloroethane	ND		1.00	1	07/12/2023 16:56	WG2093479
Chloroform	ND		1.00	1	07/12/2023 16:56	WG2093479
Chloromethane	ND		1.00	1	07/12/2023 16:56	WG2093479
Dibromochloromethane	ND		1.00	1	07/12/2023 16:56	WG2093479
Dibromomethane	ND		1.00	1	07/12/2023 16:56	WG2093479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/12/2023 16:56	WG2093479	¹ Cp
Iodomethane	ND		1.00	1	07/12/2023 16:56	WG2093479	² Tc
Methylene Chloride	ND		1.07	1	07/12/2023 16:56	WG2093479	
Styrene	ND		1.00	1	07/12/2023 16:56	WG2093479	³ Ss
Tetrachloroethene	ND		1.00	1	07/12/2023 16:56	WG2093479	
Toluene	ND		1.00	1	07/12/2023 16:56	WG2093479	⁴ Cn
Trichloroethene	ND		1.00	1	07/12/2023 16:56	WG2093479	
Trichlorofluoromethane	ND		1.00	1	07/12/2023 16:56	WG2093479	
Vinyl acetate	ND	<u>J4</u>	5.00	1	07/12/2023 16:56	WG2093479	⁵ Sr
Vinyl chloride	ND		1.00	1	07/12/2023 16:56	WG2093479	
Xylenes, Total	ND		1.00	1	07/12/2023 16:56	WG2093479	⁶ Qc
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 16:56	WG2093479	
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 16:56	WG2093479	
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 16:56	WG2093479	⁷ Gl
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 16:56	WG2093479	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 16:56	WG2093479	⁸ Al
(S) 1,2-Dichloroethane-d4	112			70.0-130	07/12/2023 16:56	WG2093479	
(S) 4-Bromofluorobenzene	95.8			77.0-126	07/12/2023 16:56	WG2093479	
(S) Toluene-d8	100			80.0-120	07/12/2023 16:56	WG2093479	⁹ Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.29	su
Specific Conductance (on site)	530	umhos/cm
Temperature (on-site)	21.1	Deg. C
Turbidity (on-site)	5.3	NTU
Dissolved Oxygen (on-site)	2.9	mg/l
eH/ORP (On Site)	175.4	mV
Depth to water (DTW) (FROM TOC)	68.95	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	282		10.0	1	07/13/2023 10:05	WG2093592

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	240		10.0	1	07/17/2023 12:02	WG2095978
Alkalinity,Bicarbonate	240		10.0	1	07/17/2023 12:02	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 12:02	WG2095978

Sample Narrative:

L1633891-03 WG2095978: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:37	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.78		0.100	2	07/11/2023 21:15	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	7.02		3.00	1	07/18/2023 15:09	WG2096724
Sulfate	ND		5.00	1	07/18/2023 15:09	WG2096724

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/21/2023 23:37	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/19/2023 11:44	WG2092917
Barium,Total Recoverable	0.0859		0.00500	1	07/19/2023 11:44	WG2092917
Calcium, Total Recoverable	91.7		0.200	1	07/19/2023 11:44	WG2092917
Iron, Total Recoverable	ND		0.0600	1	07/19/2023 11:44	WG2092917
Potassium, Total Recoverable	ND		3.00	1	07/19/2023 11:44	WG2092917

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	1.49		0.200	1	07/19/2023 11:44	WG2092917
Manganese, Total Recoverable	ND		0.00300	1	07/19/2023 11:44	WG2092917
Sodium, Total Recoverable	12.2		5.00	1	07/19/2023 11:44	WG2092917
Lead, Total Recoverable	ND		0.00500	1	07/19/2023 11:44	WG2092917
Selenium, Total Recoverable	ND		0.0100	1	08/17/2023 14:43	WG2115485

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/12/2023 14:49	WG2092923
Beryllium, Total Recoverable	ND		0.00100	1	07/12/2023 14:49	WG2092923
Cadmium, Total Recoverable	ND		0.00100	1	07/12/2023 14:49	WG2092923
Cobalt, Total Recoverable	ND		0.00300	1	07/12/2023 14:49	WG2092923
Chromium, Total Recoverable	ND		0.00300	1	07/12/2023 14:49	WG2092923
Copper, Total Recoverable	ND		0.00400	1	07/12/2023 14:49	WG2092923
Nickel, Total Recoverable	ND		0.00400	1	07/12/2023 14:49	WG2092923
Antimony, Total Recoverable	ND		0.00200	1	07/12/2023 14:49	WG2092923
Thallium, Total Recoverable	ND		0.00100	1	07/12/2023 14:49	WG2092923
Vanadium, Total Recoverable	ND		0.00300	1	07/12/2023 14:49	WG2092923
Zinc, Total Recoverable	0.0245	J	0.00500	1	07/12/2023 14:49	WG2092923

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 17:18	WG2093479
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 17:18	WG2093479
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 17:18	WG2093479
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 17:18	WG2093479
1,1-Dichloroethane	ND		1.00	1	07/12/2023 17:18	WG2093479
1,1-Dichloroethene	ND		1.00	1	07/12/2023 17:18	WG2093479
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 17:18	WG2093479
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 17:18	WG2093479
1,2-Dibromoethane	ND		1.00	1	07/12/2023 17:18	WG2093479
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 17:18	WG2093479
1,2-Dichloroethane	ND		1.00	1	07/12/2023 17:18	WG2093479
1,2-Dichloropropane	ND		1.00	1	07/12/2023 17:18	WG2093479
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 17:18	WG2093479
2-Butanone (MEK)	ND		5.00	1	07/12/2023 17:18	WG2093479
2-Hexanone	ND		5.00	1	07/12/2023 17:18	WG2093479
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 17:18	WG2093479
Acetone	ND		10.0	1	07/12/2023 17:18	WG2093479
Acrylonitrile	ND		20.0	1	07/12/2023 17:18	WG2093479
Benzene	ND		1.00	1	07/12/2023 17:18	WG2093479
Bromochloromethane	ND		1.00	1	07/12/2023 17:18	WG2093479
Bromodichloromethane	ND		1.00	1	07/12/2023 17:18	WG2093479
Bromoform	ND		1.00	1	07/12/2023 17:18	WG2093479
Bromomethane	ND		1.00	1	07/12/2023 17:18	WG2093479
Carbon disulfide	ND		1.00	1	07/12/2023 17:18	WG2093479
Carbon tetrachloride	ND		1.00	1	07/12/2023 17:18	WG2093479
Chlorobenzene	ND		1.00	1	07/12/2023 17:18	WG2093479
Chloroethane	ND		1.00	1	07/12/2023 17:18	WG2093479
Chloroform	ND		1.00	1	07/12/2023 17:18	WG2093479
Chloromethane	ND		1.00	1	07/12/2023 17:18	WG2093479
Dibromochloromethane	ND		1.00	1	07/12/2023 17:18	WG2093479
Dibromomethane	ND		1.00	1	07/12/2023 17:18	WG2093479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 17:18	WG2093479
Iodomethane	ND		1.00	1	07/12/2023 17:18	WG2093479
Methylene Chloride	ND		1.07	1	07/12/2023 17:18	WG2093479
Styrene	ND		1.00	1	07/12/2023 17:18	WG2093479
Tetrachloroethene	ND		1.00	1	07/12/2023 17:18	WG2093479
Toluene	ND		1.00	1	07/12/2023 17:18	WG2093479
Trichloroethene	ND		1.00	1	07/12/2023 17:18	WG2093479
Trichlorofluoromethane	ND		1.00	1	07/12/2023 17:18	WG2093479
Vinyl acetate	ND	J4	5.00	1	07/12/2023 17:18	WG2093479
Vinyl chloride	ND		1.00	1	07/12/2023 17:18	WG2093479
Xylenes, Total	ND		1.00	1	07/12/2023 17:18	WG2093479
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 17:18	WG2093479
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 17:18	WG2093479
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 17:18	WG2093479
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 17:18	WG2093479
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 17:18	WG2093479
(S) 1,2-Dichloroethane-d4	110			70.0-130	07/12/2023 17:18	WG2093479
(S) 4-Bromofluorobenzene	88.5			77.0-126	07/12/2023 17:18	WG2093479
(S) Toluene-d8	99.0			80.0-120	07/12/2023 17:18	WG2093479

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.4	su
Specific Conductance (on site)	409	umhos/cm
Temperature (on-site)	20.7	Deg. C
Turbidity (on-site)	5	NTU
Dissolved Oxygen (on-site)	1.9	mg/l
eH/ORP (On Site)	168.9	mV
Depth to water (DTW) (FROM TOC)	80.33	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	220		10.0	1	07/13/2023 10:05	WG2093592

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	193		10.0	1	07/17/2023 12:06	WG2095978
Alkalinity,Bicarbonate	193		10.0	1	07/17/2023 12:06	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 12:06	WG2095978

Sample Narrative:

L1633891-04 WG2095978: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:39	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.100	1	07/11/2023 21:16	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	3.40		3.00	1	07/18/2023 15:26	WG2096724
Sulfate	ND		5.00	1	07/18/2023 15:26	WG2096724

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/22/2023 00:29	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/19/2023 11:47	WG2092917
Barium, Total Recoverable	0.0397		0.00500	1	07/19/2023 11:47	WG2092917
Calcium, Total Recoverable	70.0		0.200	1	07/19/2023 11:47	WG2092917
Iron, Total Recoverable	ND		0.0600	1	07/19/2023 11:47	WG2092917
Potassium, Total Recoverable	ND		3.00	1	07/19/2023 11:47	WG2092917

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	3.27		0.200	1	07/19/2023 11:47	WG2092917
Manganese, Total Recoverable	ND		0.00300	1	07/19/2023 11:47	WG2092917
Sodium, Total Recoverable	7.39		5.00	1	07/19/2023 11:47	WG2092917
Lead, Total Recoverable	ND		0.00500	1	07/19/2023 11:47	WG2092917
Selenium, Total Recoverable	ND		0.0100	1	08/17/2023 14:57	WG2115485

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/12/2023 14:53	WG2092923
Beryllium, Total Recoverable	ND		0.00100	1	07/12/2023 14:53	WG2092923
Cadmium, Total Recoverable	ND		0.00100	1	07/12/2023 14:53	WG2092923
Cobalt, Total Recoverable	ND		0.00300	1	07/12/2023 14:53	WG2092923
Chromium, Total Recoverable	ND		0.00300	1	07/12/2023 14:53	WG2092923
Copper, Total Recoverable	ND		0.00400	1	07/12/2023 14:53	WG2092923
Nickel, Total Recoverable	0.00616		0.00400	1	07/12/2023 14:53	WG2092923
Antimony, Total Recoverable	ND		0.00200	1	07/12/2023 14:53	WG2092923
Thallium, Total Recoverable	ND		0.00100	1	07/12/2023 14:53	WG2092923
Vanadium, Total Recoverable	ND		0.00300	1	07/12/2023 14:53	WG2092923
Zinc, Total Recoverable	0.0506		0.00500	1	07/12/2023 14:53	WG2092923

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

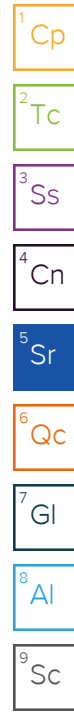
Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 17:39	WG2093479
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 17:39	WG2093479
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 17:39	WG2093479
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 17:39	WG2093479
1,1-Dichloroethane	ND		1.00	1	07/12/2023 17:39	WG2093479
1,1-Dichloroethene	ND		1.00	1	07/12/2023 17:39	WG2093479
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 17:39	WG2093479
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 17:39	WG2093479
1,2-Dibromoethane	ND		1.00	1	07/12/2023 17:39	WG2093479
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 17:39	WG2093479
1,2-Dichloroethane	ND		1.00	1	07/12/2023 17:39	WG2093479
1,2-Dichloropropane	ND		1.00	1	07/12/2023 17:39	WG2093479
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 17:39	WG2093479
2-Butanone (MEK)	ND		5.00	1	07/12/2023 17:39	WG2093479
2-Hexanone	ND		5.00	1	07/12/2023 17:39	WG2093479
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 17:39	WG2093479
Acetone	ND		10.0	1	07/12/2023 17:39	WG2093479
Acrylonitrile	ND		20.0	1	07/12/2023 17:39	WG2093479
Benzene	ND		1.00	1	07/12/2023 17:39	WG2093479
Bromochloromethane	ND		1.00	1	07/12/2023 17:39	WG2093479
Bromodichloromethane	ND		1.00	1	07/12/2023 17:39	WG2093479
Bromoform	ND		1.00	1	07/12/2023 17:39	WG2093479
Bromomethane	ND		1.00	1	07/12/2023 17:39	WG2093479
Carbon disulfide	ND		1.00	1	07/12/2023 17:39	WG2093479
Carbon tetrachloride	ND		1.00	1	07/12/2023 17:39	WG2093479
Chlorobenzene	ND		1.00	1	07/12/2023 17:39	WG2093479
Chloroethane	ND		1.00	1	07/12/2023 17:39	WG2093479
Chloroform	ND		1.00	1	07/12/2023 17:39	WG2093479
Chloromethane	ND		1.00	1	07/12/2023 17:39	WG2093479
Dibromochloromethane	ND		1.00	1	07/12/2023 17:39	WG2093479
Dibromomethane	ND		1.00	1	07/12/2023 17:39	WG2093479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/12/2023 17:39	WG2093479	¹ Cp
Iodomethane	ND		1.00	1	07/12/2023 17:39	WG2093479	² Tc
Methylene Chloride	ND		1.07	1	07/12/2023 17:39	WG2093479	
Styrene	ND		1.00	1	07/12/2023 17:39	WG2093479	³ Ss
Tetrachloroethene	ND		1.00	1	07/12/2023 17:39	WG2093479	
Toluene	ND		1.00	1	07/12/2023 17:39	WG2093479	⁴ Cn
Trichloroethene	ND		1.00	1	07/12/2023 17:39	WG2093479	
Trichlorofluoromethane	ND		1.00	1	07/12/2023 17:39	WG2093479	
Vinyl acetate	ND	<u>J4</u>	5.00	1	07/12/2023 17:39	WG2093479	⁵ Sr
Vinyl chloride	ND		1.00	1	07/12/2023 17:39	WG2093479	
Xylenes, Total	ND		1.00	1	07/12/2023 17:39	WG2093479	⁶ Qc
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 17:39	WG2093479	
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 17:39	WG2093479	
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 17:39	WG2093479	⁷ Gl
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 17:39	WG2093479	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 17:39	WG2093479	⁸ Al
(S) 1,2-Dichloroethane-d4	115			70.0-130	07/12/2023 17:39	WG2093479	
(S) 4-Bromofluorobenzene	98.4			77.0-126	07/12/2023 17:39	WG2093479	
(S) Toluene-d8	99.9			80.0-120	07/12/2023 17:39	WG2093479	⁹ Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.18	su
Specific Conductance (on site)	366	umhos/cm
Temperature (on-site)	18	Deg. C
Turbidity (on-site)	5	NTU
Dissolved Oxygen (on-site)	6.5	mg/l
eH/ORP (On Site)	166.3	mV
Depth to water (DTW) (FROM TOC)	58.32	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	197		10.0	1	07/12/2023 14:00	WG2093348

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	177		10.0	1	07/17/2023 12:22	WG2095978
Alkalinity,Bicarbonate	177		10.0	1	07/17/2023 12:22	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 12:22	WG2095978

Sample Narrative:

L1633891-05 WG2095978: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 14:06	WG2092801

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.418		0.100	1	07/11/2023 21:17	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	ND		3.00	1	07/18/2023 15:43	WG2096724
Sulfate	ND		5.00	1	07/18/2023 15:43	WG2096724

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/22/2023 00:41	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/19/2023 11:49	WG2092917
Barium, Total Recoverable	0.0511		0.00500	1	07/19/2023 11:49	WG2092917
Calcium, Total Recoverable	67.3		0.200	1	07/19/2023 11:49	WG2092917
Iron, Total Recoverable	ND		0.0600	1	07/19/2023 11:49	WG2092917
Potassium, Total Recoverable	ND		3.00	1	07/19/2023 11:49	WG2092917

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	0.572	J	0.200	1	07/19/2023 11:49	WG2092917
Manganese, Total Recoverable	ND		0.00300	1	07/19/2023 11:49	WG2092917
Sodium, Total Recoverable	ND		5.00	1	07/19/2023 11:49	WG2092917
Lead, Total Recoverable	ND		0.00500	1	07/19/2023 11:49	WG2092917
Selenium, Total Recoverable	ND		0.0100	1	08/17/2023 15:00	WG2115485

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/12/2023 14:56	WG2092923
Beryllium, Total Recoverable	ND		0.00100	1	07/12/2023 14:56	WG2092923
Cadmium, Total Recoverable	ND		0.00100	1	07/12/2023 14:56	WG2092923
Cobalt, Total Recoverable	ND		0.00300	1	07/12/2023 14:56	WG2092923
Chromium, Total Recoverable	ND		0.00300	1	07/12/2023 14:56	WG2092923
Copper, Total Recoverable	ND		0.00400	1	07/12/2023 14:56	WG2092923
Nickel, Total Recoverable	ND		0.00400	1	07/12/2023 14:56	WG2092923
Antimony, Total Recoverable	ND		0.00200	1	07/12/2023 14:56	WG2092923
Thallium, Total Recoverable	ND		0.00100	1	07/12/2023 14:56	WG2092923
Vanadium, Total Recoverable	ND		0.00300	1	07/12/2023 14:56	WG2092923
Zinc, Total Recoverable	0.0228	J	0.00500	1	07/12/2023 14:56	WG2092923

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 18:01	WG2093479
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 18:01	WG2093479
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 18:01	WG2093479
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 18:01	WG2093479
1,1-Dichloroethane	ND		1.00	1	07/12/2023 18:01	WG2093479
1,1-Dichloroethene	ND		1.00	1	07/12/2023 18:01	WG2093479
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 18:01	WG2093479
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 18:01	WG2093479
1,2-Dibromoethane	ND		1.00	1	07/12/2023 18:01	WG2093479
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 18:01	WG2093479
1,2-Dichloroethane	ND		1.00	1	07/12/2023 18:01	WG2093479
1,2-Dichloropropane	ND		1.00	1	07/12/2023 18:01	WG2093479
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 18:01	WG2093479
2-Butanone (MEK)	ND		5.00	1	07/12/2023 18:01	WG2093479
2-Hexanone	ND		5.00	1	07/12/2023 18:01	WG2093479
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 18:01	WG2093479
Acetone	ND		10.0	1	07/12/2023 18:01	WG2093479
Acrylonitrile	ND		20.0	1	07/12/2023 18:01	WG2093479
Benzene	ND		1.00	1	07/12/2023 18:01	WG2093479
Bromochloromethane	ND		1.00	1	07/12/2023 18:01	WG2093479
Bromodichloromethane	ND		1.00	1	07/12/2023 18:01	WG2093479
Bromoform	ND		1.00	1	07/12/2023 18:01	WG2093479
Bromomethane	ND		1.00	1	07/12/2023 18:01	WG2093479
Carbon disulfide	ND		1.00	1	07/12/2023 18:01	WG2093479
Carbon tetrachloride	ND		1.00	1	07/12/2023 18:01	WG2093479
Chlorobenzene	ND		1.00	1	07/12/2023 18:01	WG2093479
Chloroethane	ND		1.00	1	07/12/2023 18:01	WG2093479
Chloroform	ND		1.00	1	07/12/2023 18:01	WG2093479
Chloromethane	ND		1.00	1	07/12/2023 18:01	WG2093479
Dibromochloromethane	ND		1.00	1	07/12/2023 18:01	WG2093479
Dibromomethane	ND		1.00	1	07/12/2023 18:01	WG2093479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch	
	ug/l		ug/l		date / time		
Ethylbenzene	ND		1.00	1	07/12/2023 18:01	WG2093479	¹ Cp
Iodomethane	ND		1.00	1	07/12/2023 18:01	WG2093479	² Tc
Methylene Chloride	ND		1.07	1	07/12/2023 18:01	WG2093479	
Styrene	ND		1.00	1	07/12/2023 18:01	WG2093479	³ Ss
Tetrachloroethene	ND		1.00	1	07/12/2023 18:01	WG2093479	
Toluene	ND		1.00	1	07/12/2023 18:01	WG2093479	⁴ Cn
Trichloroethene	ND		1.00	1	07/12/2023 18:01	WG2093479	
Trichlorofluoromethane	ND		1.00	1	07/12/2023 18:01	WG2093479	
Vinyl acetate	ND	<u>J4</u>	5.00	1	07/12/2023 18:01	WG2093479	⁵ Sr
Vinyl chloride	ND		1.00	1	07/12/2023 18:01	WG2093479	
Xylenes, Total	ND		1.00	1	07/12/2023 18:01	WG2093479	⁶ Qc
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 18:01	WG2093479	
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 18:01	WG2093479	
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 18:01	WG2093479	⁷ Gl
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 18:01	WG2093479	
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 18:01	WG2093479	⁸ Al
(S) 1,2-Dichloroethane-d4	116			70.0-130	07/12/2023 18:01	WG2093479	
(S) 4-Bromofluorobenzene	91.7			77.0-126	07/12/2023 18:01	WG2093479	
(S) Toluene-d8	95.3			80.0-120	07/12/2023 18:01	WG2093479	⁹ Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.16	su
Specific Conductance (on site)	18558	umhos/cm
Temperature (on-site)	23.8	Deg. C
Turbidity (on-site)	439.75	NTU
Dissolved Oxygen (on-site)	1.16	mg/l
eH/ORP (On Site)	156.1	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1630		31.7	1000	07/12/2023 14:09	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1190		5.19	100	07/18/2023 16:00	WG2096724

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.75	su
Specific Conductance (on site)	15429	umhos/cm
Temperature (on-site)	22.6	Deg. C
Turbidity (on-site)	522.11	NTU
Dissolved Oxygen (on-site)	1.21	mg/l
eH/ORP (On Site)	212	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1110		31.7	1000	07/12/2023 14:10	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1430		3.00	10	07/18/2023 16:17	WG2096724

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.01	su
Specific Conductance (on site)	13600	umhos/cm
Temperature (on-site)	22.9	Deg. C
Turbidity (on-site)	45.45	NTU
Dissolved Oxygen (on-site)	4.8	mg/l
eH/ORP (On Site)	194.5	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	967		31.7	1000	07/12/2023 14:12	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1140		3.00	10	07/18/2023 16:34	WG2096724

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.79	su
Specific Conductance (on site)	19705	umhos/cm
Temperature (on-site)	27	Deg. C
Turbidity (on-site)	76.81	NTU
Dissolved Oxygen (on-site)	1.11	mg/l
eH/ORP (On Site)	162.2	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1520		31.7	1000	07/12/2023 14:13	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1500		3.00	10	07/18/2023 16:51	WG2096724

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.6	su
Specific Conductance (on site)	29225	umhos/cm
Temperature (on-site)	31.5	Deg. C
Turbidity (on-site)	121.71	NTU
Dissolved Oxygen (on-site)	0.63	mg/l
eH/ORP (On Site)	122.2	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	2650		31.7	1000	07/12/2023 14:15	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	2460		5.19	100	07/18/2023 17:41	WG2096724

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.5	su
Specific Conductance (on site)	21142	umhos/cm
Temperature (on-site)	24.4	Deg. C
Turbidity (on-site)	361.05	NTU
Dissolved Oxygen (on-site)	4.2	mg/l
eH/ORP (On Site)	172.9	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1530		31.7	1000	07/12/2023 14:16	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1680		3.00	10	07/18/2023 17:58	WG2096724

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.98	su
Specific Conductance (on site)	23174	umhos/cm
Temperature (on-site)	30.3	Deg. C
Turbidity (on-site)	36.95	NTU
Dissolved Oxygen (on-site)	2.24	mg/l
eH/ORP (On Site)	179.7	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1570		158	5000	07/12/2023 14:22	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	2330		3.00	50	07/18/2023 18:15	WG2096724

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.33	su
Specific Conductance (on site)	12562	umhos/cm
Temperature (on-site)	36	Deg. C
Turbidity (on-site)	2529.71	NTU
Dissolved Oxygen (on-site)	2.45	mg/l
eH/ORP (On Site)	176.4	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	825		3.17	100	07/12/2023 14:24	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1070		3.00	10	07/18/2023 18:49	WG2096724

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.98	su
Specific Conductance (on site)	20942	umhos/cm
Temperature (on-site)	31.2	Deg. C
Turbidity (on-site)	48.79	NTU
Dissolved Oxygen (on-site)	0.99	mg/l
eH/ORP (On Site)	178	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1490		6.34	200	07/12/2023 14:27	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1800		5.19	100	07/19/2023 00:49	WG2097280

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.18	su
Specific Conductance (on site)	24571	umhos/cm
Temperature (on-site)	35.7	Deg. C
Turbidity (on-site)	79.52	NTU
Dissolved Oxygen (on-site)	0.32	mg/l
eH/ORP (On Site)	154.8	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	2020		158	5000	07/12/2023 14:28	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	2080		5.19	100	07/19/2023 01:05	WG2097280

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.47	su
Specific Conductance (on site)	24887	umhos/cm
Temperature (on-site)	33.3	Deg. C
Turbidity (on-site)	248.52	NTU
Dissolved Oxygen (on-site)	2.15	mg/l
eH/ORP (On Site)	169	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1800		158	5000	07/12/2023 14:30	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	2060		5.19	100	07/19/2023 01:22	WG2097280

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.13	su
Specific Conductance (on site)	20199	umhos/cm
Temperature (on-site)	33.4	Deg. C
Turbidity (on-site)	185.31	NTU
Dissolved Oxygen (on-site)	3.09	mg/l
eH/ORP (On Site)	155.1	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1400		31.7	1000	07/12/2023 14:31	WG2092801

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1730		5.19	100	07/19/2023 01:38	WG2097280

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.48	su
Specific Conductance (on site)	4478	umhos/cm
Temperature (on-site)	24.6	Deg. C
Turbidity (on-site)	4.35	NTU
Dissolved Oxygen (on-site)	1.91	mg/l
eH/ORP (On Site)	114.8	mV

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	1460		10.0	1	07/17/2023 12:27	WG2095978
Alkalinity,Bicarbonate	1460		10.0	1	07/17/2023 12:27	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 12:27	WG2095978

Sample Narrative:

L1633891-18 WG2095978: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	17.0		0.158	5	07/12/2023 14:33	WG2092801

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.100	1	07/11/2023 21:19	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	345	<u>V</u>	3.00	5	07/19/2023 03:02	WG2097280
Sulfate	ND		5.00	1	07/19/2023 02:29	WG2097280

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium, Total Recoverable	87.5		0.200	1	07/19/2023 11:58	WG2092917
Potassium, Total Recoverable	22.7		3.00	1	07/19/2023 11:58	WG2092917
Magnesium, Total Recoverable	22.7		0.200	1	07/19/2023 11:58	WG2092917
Sodium,Total Recoverable	761		5.00	1	07/19/2023 11:58	WG2092917

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.43	su
Specific Conductance (on site)	3618	umhos/cm
Temperature (on-site)	23.8	Deg. C
Turbidity (on-site)	6.51	NTU
Dissolved Oxygen (on-site)	4.44	mg/l
eH/ORP (On Site)	134.3	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	919		10.0	1	07/17/2023 12:32	WG2095978
Alkalinity,Bicarbonate	919		10.0	1	07/17/2023 12:32	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 12:32	WG2095978

Sample Narrative:

L1633891-19 WG2095978: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	6.22		0.100	1	07/12/2023 14:34	WG2092801

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.100	1	07/11/2023 21:20	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	362		3.00	5	07/19/2023 03:35	WG2097280
Sulfate	ND		5.00	1	07/19/2023 03:18	WG2097280

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium, Total Recoverable	88.8		0.200	1	07/19/2023 12:01	WG2092917
Potassium, Total Recoverable	13.0		3.00	1	07/19/2023 12:01	WG2092917
Magnesium, Total Recoverable	14.0		0.200	1	07/19/2023 12:01	WG2092917
Sodium,Total Recoverable	514		5.00	1	07/19/2023 12:01	WG2092917

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.9	su
Specific Conductance (on site)	18885	umhos/cm
Temperature (on-site)	23.6	Deg. C
Turbidity (on-site)	34.17	NTU
Dissolved Oxygen (on-site)	2.13	mg/l
eH/ORP (On Site)	168.3	mV

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	8370		10.0	1	07/17/2023 10:18	WG2095980
Alkalinity,Bicarbonate	8370		10.0	1	07/17/2023 10:18	WG2095980
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 10:18	WG2095980

Sample Narrative:

L1633891-20 WG2095980: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	195		3.17	100	07/12/2023 15:06	WG2092801

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.197	10	07/11/2023 21:21	WG2092818

Sample Narrative:

L1633891-20 WG2092818: Diluted to leachate matrix.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1820		3.00	20	07/19/2023 03:51	WG2097280
Sulfate	8.53	J	5.00	20	07/19/2023 03:51	WG2097280

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium, Total Recoverable	41.4		0.200	1	07/19/2023 12:03	WG2092917
Potassium, Total Recoverable	44.1		3.00	1	07/19/2023 12:03	WG2092917
Magnesium, Total Recoverable	106		0.200	1	07/19/2023 12:03	WG2092917
Sodium,Total Recoverable	3090		5.00	5	07/21/2023 02:19	WG2092917

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.98	su
Specific Conductance (on site)	17730	umhos/cm
Temperature (on-site)	27.8	Deg. C
Turbidity (on-site)	203.7	NTU
Dissolved Oxygen (on-site)	2.01	mg/l
eH/ORP (On Site)	148.3	mV

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	7610		10.0	1	07/17/2023 10:26	WG2095980
Alkalinity,Bicarbonate	7610		10.0	1	07/17/2023 10:26	WG2095980
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 10:26	WG2095980

Sample Narrative:

L1633891-21 WG2095980: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	913		158	5000	07/12/2023 14:46	WG2092801

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.197	10	07/11/2023 21:22	WG2092818

Sample Narrative:

L1633891-21 WG2092818: Diluted to leachate matrix.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1250		3.00	20	07/19/2023 04:07	WG2097280
Sulfate	17.1	J	5.00	20	07/19/2023 04:07	WG2097280

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium, Total Recoverable	24.8		0.200	1	07/19/2023 12:06	WG2092917
Potassium, Total Recoverable	278		3.00	5	07/21/2023 02:21	WG2092917
Magnesium, Total Recoverable	49.2		0.200	1	07/19/2023 12:06	WG2092917
Sodium,Total Recoverable	1980		5.00	5	07/21/2023 02:21	WG2092917

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.46	su
Specific Conductance (on site)	11274	umhos/cm
Temperature (on-site)	28.1	Deg. C
Turbidity (on-site)	44.75	NTU
Dissolved Oxygen (on-site)	1.03	mg/l
eH/ORP (On Site)	111.9	mV

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	4600		10.0	1	07/17/2023 10:33	WG2095980
Alkalinity,Bicarbonate	4600		10.0	1	07/17/2023 10:33	WG2095980
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 10:33	WG2095980

Sample Narrative:

L1633891-22 WG2095980: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	333		15.8	500	07/12/2023 14:48	WG2092801

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	4.75		0.197	10	07/11/2023 21:24	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	533		3.00	20	07/19/2023 04:23	WG2097280
Sulfate	17.2	J	5.00	20	07/19/2023 04:23	WG2097280

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium, Total Recoverable	12.0		0.200	1	07/19/2023 12:09	WG2092917
Potassium, Total Recoverable	94.2		3.00	1	07/19/2023 12:09	WG2092917
Magnesium, Total Recoverable	12.7		0.200	1	07/19/2023 12:09	WG2092917
Sodium,Total Recoverable	1950		5.00	5	07/21/2023 02:24	WG2092917

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.65	su
Specific Conductance (on site)	14425	umhos/cm
Temperature (on-site)	25.2	Deg. C
Turbidity (on-site)	12.5	NTU
Dissolved Oxygen (on-site)	2.61	mg/l
eH/ORP (On Site)	139.5	mV

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	5470		10.0	1	07/17/2023 10:41	WG2095980
Alkalinity,Bicarbonate	5470		10.0	1	07/17/2023 10:41	WG2095980
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 10:41	WG2095980

Sample Narrative:

L1633891-23 WG2095980: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	219		31.7	1000	07/12/2023 14:49	WG2092801

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.100	1	07/11/2023 21:29	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1630		3.00	20	07/19/2023 04:40	WG2097280
Sulfate	59.0	J	5.00	20	07/19/2023 04:40	WG2097280

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium, Total Recoverable	52.4		0.200	1	07/19/2023 12:12	WG2092917
Potassium, Total Recoverable	76.1		3.00	1	07/19/2023 12:12	WG2092917
Magnesium, Total Recoverable	68.2		0.200	1	07/19/2023 12:12	WG2092917
Sodium,Total Recoverable	3080		5.00	5	07/21/2023 02:27	WG2092917

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.59	su
Specific Conductance (on site)	6941	umhos/cm
Temperature (on-site)	27.2	Deg. C
Turbidity (on-site)	7.03	NTU
Dissolved Oxygen (on-site)	2.13	mg/l
eH/ORP (On Site)	128	mV

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	2580		10.0	1	07/17/2023 10:48	WG2095980
Alkalinity,Bicarbonate	2580		10.0	1	07/17/2023 10:48	WG2095980
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 10:48	WG2095980

Sample Narrative:

L1633891-24 WG2095980: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	185		31.7	1000	07/12/2023 14:51	WG2092801

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	0.136		0.100	1	07/11/2023 21:30	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	299		3.00	10	07/19/2023 04:56	WG2097280
Sulfate	31.0	J	5.00	10	07/19/2023 04:56	WG2097280

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium, Total Recoverable	12.5		0.200	1	07/19/2023 12:14	WG2092917
Potassium, Total Recoverable	83.9		3.00	1	07/19/2023 12:14	WG2092917
Magnesium, Total Recoverable	12.5		0.200	1	07/19/2023 12:14	WG2092917
Sodium,Total Recoverable	939		5.00	1	07/19/2023 12:14	WG2092917

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.7	su
Specific Conductance (on site)	3485	umhos/cm
Temperature (on-site)	32.8	Deg. C
Turbidity (on-site)	13.13	NTU
Dissolved Oxygen (on-site)	1.81	mg/l
eH/ORP (On Site)	129.9	mV

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	896		10.0	1	07/17/2023 10:53	WG2095980
Alkalinity,Bicarbonate	896		10.0	1	07/17/2023 10:53	WG2095980
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 10:53	WG2095980

Sample Narrative:

L1633891-25 WG2095980: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	26.8		0.317	10	07/13/2023 23:49	WG2094632

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.100	1	07/11/2023 21:31	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	120		3.00	5	07/19/2023 05:45	WG2097280
Sulfate	271		5.00	5	07/19/2023 05:45	WG2097280

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium, Total Recoverable	23.7		0.200	1	07/19/2023 12:17	WG2092917
Potassium, Total Recoverable	23.8		3.00	1	07/19/2023 12:17	WG2092917
Magnesium, Total Recoverable	5.99		0.200	1	07/19/2023 12:17	WG2092917
Sodium,Total Recoverable	531		5.00	1	07/19/2023 12:17	WG2092917

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.29	su
Specific Conductance (on site)	1630	umhos/cm
Temperature (on-site)	29.2	Deg. C
Turbidity (on-site)	2.29	NTU
Dissolved Oxygen (on-site)	1.57	mg/l
eH/ORP (On Site)	121.3	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	1390		10.0	1	07/17/2023 11:00	WG2095980
Alkalinity,Bicarbonate	1390		10.0	1	07/17/2023 11:00	WG2095980
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 11:00	WG2095980

Sample Narrative:

L1633891-26 WG2095980: Endpoint pH 4.5

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	23.8		0.634	20	07/16/2023 00:16	WG2094642

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.100	1	07/11/2023 21:33	WG2092818

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	119		3.00	1	07/19/2023 06:02	WG2097280
Sulfate	ND		5.00	1	07/19/2023 06:02	WG2097280

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium, Total Recoverable	53.6		0.200	1	07/19/2023 12:20	WG2092917
Potassium, Total Recoverable	24.6		3.00	1	07/19/2023 12:20	WG2092917
Magnesium, Total Recoverable	15.8		0.200	1	07/19/2023 12:20	WG2092917
Sodium,Total Recoverable	549		5.00	1	07/19/2023 12:20	WG2092917

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.37	su
Specific Conductance (on site)	15407	umhos/cm
Temperature (on-site)	30.9	Deg. C
Turbidity (on-site)	157.87	NTU
Dissolved Oxygen (on-site)	0.34	mg/l
eH/ORP (On Site)	144.1	mV

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	9660		10.0	1	07/17/2023 11:26	WG2095980
Alkalinity,Bicarbonate	9660		10.0	1	07/17/2023 11:26	WG2095980
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 11:26	WG2095980

Sample Narrative:

L1633891-27 WG2095980: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	1270		158	5000	07/14/2023 22:41	WG2094637

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.197	10	07/11/2023 21:37	WG2092818

Sample Narrative:

L1633891-27 WG2092818: Diluted to leachate matrix.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	2180		3.00	20	07/19/2023 06:18	WG2097280
Sulfate	8.83	J	5.00	20	07/19/2023 06:18	WG2097280

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium, Total Recoverable	32.1		0.200	1	07/19/2023 12:23	WG2092917
Potassium, Total Recoverable	437		3.00	5	07/21/2023 02:30	WG2092917
Magnesium, Total Recoverable	36.0		0.200	1	07/19/2023 12:23	WG2092917
Sodium,Total Recoverable	1510		5.00	5	07/21/2023 02:30	WG2092917

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.49	su
Specific Conductance (on site)	14490	umhos/cm
Temperature (on-site)	31.1	Deg. C
Turbidity (on-site)	37.47	NTU
Dissolved Oxygen (on-site)	1.36	mg/l
eH/ORP (On Site)	141.8	mV

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	5450		10.0	1	07/17/2023 11:34	WG2095980
Alkalinity,Bicarbonate	5450		10.0	1	07/17/2023 11:34	WG2095980
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 11:34	WG2095980

Sample Narrative:

L1633891-28 WG2095980: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	644		3.17	100	07/14/2023 23:26	WG2094637

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.197	10	07/11/2023 21:38	WG2092818

Sample Narrative:

L1633891-28 WG2092818: Diluted to leachate matrix.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1270		5.19	100	07/19/2023 12:07	WG2097563
Sulfate	69.6	J	7.74	100	07/19/2023 12:07	WG2097563

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium, Total Recoverable	70.0		0.200	1	07/19/2023 10:44	WG2092917
Potassium, Total Recoverable	219		3.00	5	07/21/2023 02:16	WG2092917
Magnesium, Total Recoverable	183		0.200	1	07/19/2023 10:44	WG2092917
Sodium,Total Recoverable	1860		5.00	5	07/21/2023 02:16	WG2092917

Method Blank (MB)

(MB) R3948623-1 07/12/23 14:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

1 Cp

2 Tc

3 Ss

L1633385-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1633385-04 07/12/23 14:00 • (DUP) R3948623-3 07/12/23 14:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1200	1190	1	1.51		5

4 Cn

5 Sr

6 Qc

L1633529-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633529-01 07/12/23 14:00 • (DUP) R3948623-4 07/12/23 14:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	302	325	1	7.34	J3	5

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3948623-2 07/12/23 14:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8540	97.0	77.3-123	

Method Blank (MB)

(MB) R3948766-1 07/13/23 10:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

1 Cp

2 Tc

3 Ss

L1633581-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633581-01 07/13/23 10:05 • (DUP) R3948766-3 07/13/23 10:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	369	377	1	2.14		5

4 Cn

5 Sr

L1633864-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-07 07/13/23 10:05 • (DUP) R3948766-4 07/13/23 10:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	393	398	1	1.26		5

6 Qc

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R3948766-2 07/13/23 10:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8480	96.4	77.3-123	

9 Sc

Method Blank (MB)

(MB) R3949298-2 07/17/23 10:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	ND		2.71	20.0
Alkalinity,Bicarbonate	ND		2.71	20.0
Alkalinity,Carbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1633770-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633770-01 07/17/23 10:43 • (DUP) R3949298-3 07/17/23 10:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	164	164	1	0.316		20
Alkalinity,Bicarbonate	164	164	1	0.316		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1634156-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1634156-01 07/17/23 12:36 • (DUP) R3949298-4 07/17/23 12:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	894	905	1	1.28		20
Alkalinity,Bicarbonate	707	716	1	1.23		20
Alkalinity,Carbonate	186	189	1	1.45		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5



Laboratory Control Sample (LCS)

(LCS) R3949298-1 07/17/23 10:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Alkalinity	100	98.3	98.3	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3949303-2 07/17/23 10:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	ND		2.71	20.0
Alkalinity,Bicarbonate	ND		2.71	20.0
Alkalinity,Carbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1633891-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1633891-26 07/17/23 11:00 • (DUP) R3949303-3 07/17/23 11:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	1390	1420	1	2.70		20
Alkalinity,Bicarbonate	1390	1420	1	2.70		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

L1634106-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1634106-01 07/17/23 12:13 • (DUP) R3949303-4 07/17/23 12:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	271	269	1	0.755		20
Alkalinity,Bicarbonate	271	269	1	0.755		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5



Laboratory Control Sample (LCS)

(LCS) R3949303-1 07/17/23 09:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Alkalinity	100	107	107	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3947829-1 07/12/23 12:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633864-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-13 07/12/23 13:30 • (DUP) R3947829-7 07/12/23 13:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	0.161	0.102	1	200	P1	10

L1633864-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-03 07/12/23 13:03 • (DUP) R3947829-5 07/12/23 13:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R3947829-2 07/12/23 12:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.71	103	90.0-110	

L1633864-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633864-02 07/12/23 12:58 • (MS) R3947829-3 07/12/23 13:00 • (MSD) R3947829-4 07/12/23 13:01

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	ND	5.07	5.25	101	105	1	90.0-110			3.49	10

L1633864-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633864-12 07/12/23 13:22 • (MS) R3947829-6 07/12/23 13:24

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.12	102	1	90.0-110	

Method Blank (MB)

(MB) R3947834-1 07/12/23 14:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633891-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1633891-13 07/12/23 14:24 • (DUP) R3947834-4 07/12/23 14:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	825	820	100	0.533		10

L1633891-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1633891-20 07/12/23 15:06 • (DUP) R3947834-11 07/12/23 15:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	195	195	100	0.0374		10

Laboratory Control Sample (LCS)

(LCS) R3947834-2 07/12/23 14:04

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.65	102	90.0-110	

L1633891-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633891-05 07/12/23 14:06 • (MS) R3947834-3 07/12/23 14:07

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.16	103	1	90.0-110	

L1633891-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633891-19 07/12/23 14:34 • (MS) R3947834-8 07/12/23 14:36 • (MSD) R3947834-9 07/12/23 14:42

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	6.22	11.0	11.2	96.4	101	1	90.0-110	E	E	1.88	10

Method Blank (MB)

(MB) R3948477-1 07/13/23 22:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1632866-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1632866-01 07/13/23 23:03 • (DUP) R3948477-3 07/13/23 23:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

L1634841-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1634841-01 07/13/23 23:39 • (DUP) R3948477-6 07/13/23 23:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R3948477-2 07/13/23 23:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.70	103	90.0-110	

L1632866-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632866-01 07/13/23 23:03 • (MS) R3948477-4 07/13/23 23:06 • (MSD) R3948477-5 07/13/23 23:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	ND	4.96	5.03	99.1	101	1	90.0-110			1.52	10

L1634841-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1634841-01 07/13/23 23:39 • (MS) R3948477-7 07/13/23 23:42

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	ND	4.93	98.5	1	90.0-110	

Method Blank (MB)

(MB) R3948873-1 07/14/23 22:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1633913-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633913-01 07/14/23 23:27 • (DUP) R3948873-3 07/14/23 22:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	0.103	ND	1	10.2		10

L1634249-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1634249-01 07/14/23 23:18 • (DUP) R3948873-5 07/14/23 23:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	3.77	3.73	1	1.04		10

Laboratory Control Sample (LCS)

(LCS) R3948873-2 07/14/23 22:38

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.77	104	90.0-110	

L1633913-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633913-01 07/14/23 23:27 • (MS) R3948873-4 07/14/23 22:47

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	0.103	5.13	101	1	90.0-110	

L1634249-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1634249-01 07/14/23 23:18 • (MS) R3948873-6 07/14/23 23:21 • (MSD) R3948873-7 07/14/23 23:23

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	3.77	8.58	8.72	96.2	99.0	1	90.0-110			1.64	10

Method Blank (MB)

(MB) R3949015-1 07/16/23 00:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1634548-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1634548-02 07/16/23 00:19 • (DUP) R3949015-3 07/16/23 00:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

L1634851-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1634851-02 07/16/23 00:46 • (DUP) R3949015-6 07/16/23 00:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	0.383	0.389	1	1.55		10

Laboratory Control Sample (LCS)

(LCS) R3949015-2 07/16/23 00:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.19	95.8	90.0-110	

L1634548-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1634548-02 07/16/23 00:19 • (MS) R3949015-4 07/16/23 00:22 • (MSD) R3949015-5 07/16/23 00:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	ND	4.93	4.83	98.6	96.6	1	90.0-110			2.03	10

L1634851-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1634851-02 07/16/23 00:46 • (MS) R3949015-7 07/16/23 00:54

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	0.383	4.95	91.4	1	90.0-110	

Method Blank (MB)

(MB) R3947358-1 07/11/23 20:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Nitrate-Nitrite	ND		0.0197	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633891-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633891-01 07/11/23 21:05 • (DUP) R3947358-3 07/11/23 21:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	0.803	0.810	1	0.868		20

L1633891-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1633891-26 07/11/23 21:33 • (DUP) R3947358-6 07/11/23 21:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3947358-2 07/11/23 20:58

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Nitrate-Nitrite	2.50	2.46	98.4	90.0-110	

L1633891-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633891-01 07/11/23 21:05 • (MS) R3947358-4 07/11/23 21:07 • (MSD) R3947358-5 07/11/23 21:12

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Nitrate-Nitrite	2.50	0.803	3.46	3.44	106	105	1	90.0-110			0.580	20

L1633891-26 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633891-26 07/11/23 21:33 • (MS) R3947358-7 07/11/23 21:35

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Nitrate-Nitrite	2.50	ND	2.67	107	1	90.0-110	

Method Blank (MB)

(MB) R3950404-1 07/18/23 09:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	mg/l		mg/l	mg/l
Chloride	ND		0.0519	1.00
Sulfate	ND		0.0774	5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1633864-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-12 07/18/23 12:20 • (DUP) R3950404-5 07/18/23 13:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	mg/l	mg/l	%			%
Chloride	21.5	21.4	1	0.174		15
Sulfate	ND	ND	1	0.000		15

L1635301-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1635301-02 07/18/23 19:06 • (DUP) R3950404-6 07/18/23 19:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	mg/l	mg/l	%			%
Chloride	4.37	4.38	1	0.288		15
Sulfate	30.1	28.5	1	5.33		15

Laboratory Control Sample (LCS)

(LCS) R3950404-2 07/18/23 09:53

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	mg/l	mg/l	%	%	
Chloride	40.0	40.1	100	80.0-120	
Sulfate	40.0	39.5	98.9	80.0-120	

L1633864-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633864-12 07/18/23 12:20 • (MS) R3950404-3 07/18/23 12:37 • (MSD) R3950404-4 07/18/23 12:54

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	21.5	70.4	70.4	97.9	98.0	1	80.0-120			0.0987	15
Sulfate	50.0	ND	48.8	49.2	97.7	98.3	1	80.0-120			0.658	15

L1635301-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1635301-02 07/18/23 19:06 • (MS) R3950404-7 07/18/23 19:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	4.37	53.5	98.2	1	80.0-120	
Sulfate	50.0	30.1	78.4	96.6	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3950233-1 07/18/23 22:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	mg/l		mg/l	mg/l
Chloride	ND		0.0519	1.00
Sulfate	ND		0.0774	5.00

L1632774-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1632774-01 07/19/23 00:16 • (DUP) R3950233-3 07/19/23 00:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	mg/l	mg/l		%		%
Chloride	52.8	53.2	100	0.661	U	15
Sulfate	907	902	100	0.522		15

L1634084-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1634084-02 07/19/23 06:51 • (DUP) R3950233-5 07/19/23 07:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	mg/l	mg/l		%		%
Chloride	46.2	46.2	1	0.0539		15
Sulfate	19.3	19.3	1	0.0788		15

Laboratory Control Sample (LCS)

(LCS) R3950233-2 07/18/23 22:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	mg/l	mg/l	%	%	
Chloride	40.0	39.9	99.7	80.0-120	
Sulfate	40.0	39.5	98.8	80.0-120	

L1633891-18 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633891-18 07/19/23 02:29 • (MS) R3950233-4 07/19/23 02:45

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	351	381	61.9	1	80.0-120	EV
Sulfate	50.0	ND	47.8	95.6	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1634084-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1634084-02 07/19/23 06:51 • (MS) R3950233-6 07/19/23 07:24 • (MSD) R3950233-7 07/19/23 07:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	50.0	46.2	90.9	91.0	89.2	89.5	1	80.0-120			0.127	15
Sulfate	50.0	19.3	63.9	65.8	89.2	93.0	1	80.0-120			2.92	15

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3950797-1 07/19/23 10:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	mg/l		mg/l	mg/l
Chloride	ND		0.0519	1.00
Sulfate	ND		0.0774	5.00

L1634137-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1634137-01 07/19/23 12:23 • (DUP) R3950797-5 07/19/23 13:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	mg/l	mg/l		%		%
Chloride	89.6	89.6	1	0.0175		15
Sulfate	1840	1840	1	0.00692	E	15

L1634640-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1634640-07 07/19/23 19:09 • (DUP) R3950797-6 07/19/23 19:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	mg/l	mg/l		%		%
Chloride	ND	ND	1	9.01		15
Sulfate	ND	ND	1	1.13		15

Laboratory Control Sample (LCS)

(LCS) R3950797-2 07/19/23 11:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	mg/l	mg/l	%	%	
Chloride	40.0	39.5	98.8	80.0-120	
Sulfate	40.0	39.2	98.0	80.0-120	

L1634137-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1634137-01 07/19/23 12:23 • (MS) R3950797-3 07/19/23 12:40 • (MSD) R3950797-4 07/19/23 12:57

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	89.6	135	135	91.3	91.7	1	80.0-120			0.141	15
Sulfate	50.0	1840	1830	1820	0.000	0.000	1	80.0-120	E V	E V	0.525	15

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1634640-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1634640-07 07/19/23 19:09 • (MS) R3950797-7 07/19/23 19:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	ND	49.2	96.8	1	80.0-120	
Sulfate	50.0	ND	49.2	96.3	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3951638-2 07/21/23 17:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC	0.334	↓	0.102	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633864-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-07 07/21/23 19:41 • (DUP) R3951638-5 07/21/23 19:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	1.49	1.35	1	9.78		20

L1633891-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1633891-02 07/21/23 23:12 • (DUP) R3951638-6 07/21/23 23:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	1.06	ND	1	16.1		20

Laboratory Control Sample (LCS)

(LCS) R3951638-1 07/21/23 16:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	25.0	24.6	98.4	85.0-115	

L1633864-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633864-06 07/21/23 18:46 • (MS) R3951638-3 07/21/23 19:07 • (MSD) R3951638-4 07/21/23 19:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	ND	24.6	24.6	96.2	96.4	1	80.0-120			0.244	20

L1633891-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633891-01 07/22/23 19:28 • (MS) R3951638-9 07/22/23 19:50 • (MSD) R3951638-10 07/22/23 20:11

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	ND	25.7	25.3	100	98.7	1	80.0-120			1.41	20

Method Blank (MB)

(MB) R3950358-1 07/19/23 11:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silver, Total Recoverable	ND		0.00280	0.00500
Barium, Total Recoverable	ND		0.00170	0.00500
Calcium, Total Recoverable	ND		0.0463	1.00
Iron, Total Recoverable	0.0203	U	0.0141	0.100
Potassium, Total Recoverable	0.300	U	0.102	1.00
Magnesium, Total Recoverable	ND		0.0111	1.00
Manganese, Total Recoverable	ND		0.00120	0.0100
Sodium, Total Recoverable	0.0399		0.0111	1.00
Lead, Total Recoverable	ND		0.00190	0.00500
Selenium, Total Recoverable	ND		0.00740	0.0100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3950358-2 07/19/23 11:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver, Total Recoverable	0.200	0.196	98.1	80.0-120	
Barium, Total Recoverable	1.00	1.04	104	80.0-120	
Calcium, Total Recoverable	10.0	9.83	98.3	80.0-120	
Iron, Total Recoverable	10.0	9.88	98.8	80.0-120	
Potassium, Total Recoverable	10.0	9.99	99.9	80.0-120	
Magnesium, Total Recoverable	10.0	9.62	96.2	80.0-120	
Manganese, Total Recoverable	1.00	0.994	99.4	80.0-120	
Sodium, Total Recoverable	10.0	9.99	99.9	80.0-120	
Lead, Total Recoverable	1.00	0.978	97.8	80.0-120	
Selenium, Total Recoverable	1.00	0.985	98.5	80.0-120	

L1633891-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633891-02 07/19/23 11:31 • (MS) R3950358-4 07/19/23 11:36 • (MSD) R3950358-5 07/19/23 11:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver, Total Recoverable	0.200	ND	0.194	0.194	96.8	97.1	1	75.0-125			0.281	20
Barium, Total Recoverable	1.00	0.0338	1.05	1.05	101	101	1	75.0-125			0.00563	20
Calcium, Total Recoverable	10.0	36.1	45.1	45.0	89.8	88.5	1	75.0-125			0.287	20
Iron, Total Recoverable	10.0	ND	9.67	9.73	96.3	96.9	1	75.0-125			0.547	20
Potassium, Total Recoverable	10.0	ND	11.7	12.0	94.2	97.7	1	75.0-125			2.92	20
Magnesium, Total Recoverable	10.0	2.64	12.2	12.0	95.2	94.1	1	75.0-125			0.967	20
Manganese, Total Recoverable	1.00	0.0108	0.977	0.979	96.6	96.8	1	75.0-125			0.211	20

L1633891-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633891-02 07/19/23 11:31 • (MS) R3950358-4 07/19/23 11:36 • (MSD) R3950358-5 07/19/23 11:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sodium, Total Recoverable	10.0	10.8	19.7	19.7	88.2	88.9	1	75.0-125			0.367	20
Lead, Total Recoverable	1.00	ND	0.959	0.966	95.9	96.6	1	75.0-125			0.725	20
Selenium, Total Recoverable	1.00	0.0112	0.996	0.985	98.5	97.4	1	75.0-125			1.08	20

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3962303-1 08/17/23 14:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Selenium, Total Recoverable	ND		0.00740	0.0100

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R3962303-2 08/17/23 14:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Selenium, Total Recoverable	1.00	0.892	89.2	80.0-120	

4 Cn

5 Sr

L1633891-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633891-03 08/17/23 14:43 • (MS) R3962303-4 08/17/23 14:49 • (MSD) R3962303-5 08/17/23 14:51

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Selenium, Total Recoverable	1.00	ND	0.890	0.900	89.0	90.0	1	75.0-125			1.21	20

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3947739-1 07/12/23 14:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic, Total Recoverable	ND		0.000250	0.00200
Beryllium, Total Recoverable	ND		0.000120	0.00200
Cadmium, Total Recoverable	ND		0.000160	0.00100
Cobalt, Total Recoverable	ND		0.000260	0.00200
Chromium, Total Recoverable	ND		0.000540	0.00200
Copper, Total Recoverable	ND		0.000520	0.00500
Nickel, Total Recoverable	ND		0.000350	0.00200
Antimony, Total Recoverable	ND		0.000754	0.00200
Thallium, Total Recoverable	ND		0.000190	0.00200
Vanadium, Total Recoverable	ND		0.000180	0.00500
Zinc, Total Recoverable	ND		0.00256	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3947739-2 07/12/23 14:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic, Total Recoverable	0.0500	0.0506	101	80.0-120	
Beryllium, Total Recoverable	0.0500	0.0483	96.6	80.0-120	
Cadmium, Total Recoverable	0.0500	0.0513	103	80.0-120	
Cobalt, Total Recoverable	0.0500	0.0507	101	80.0-120	
Chromium, Total Recoverable	0.0500	0.0509	102	80.0-120	
Copper, Total Recoverable	0.0500	0.0482	96.5	80.0-120	
Nickel, Total Recoverable	0.0500	0.0508	102	80.0-120	
Antimony, Total Recoverable	0.0500	0.0457	91.4	80.0-120	
Thallium, Total Recoverable	0.0500	0.0493	98.5	80.0-120	
Vanadium, Total Recoverable	0.0500	0.0505	101	80.0-120	
Zinc, Total Recoverable	0.0500	0.0482	96.3	80.0-120	

L1633891-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633891-01 07/12/23 14:11 • (MS) R3947739-4 07/12/23 14:18 • (MSD) R3947739-5 07/12/23 14:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, Total Recoverable	0.0500	ND	0.0499	0.0493	99.8	98.7	1	75.0-125			1.09	20
Beryllium, Total Recoverable	0.0500	ND	0.0491	0.0465	98.3	93.1	1	75.0-125			5.46	20
Cadmium, Total Recoverable	0.0500	ND	0.0517	0.0507	103	101	1	75.0-125			2.04	20
Cobalt, Total Recoverable	0.0500	ND	0.0502	0.0499	100	99.9	1	75.0-125			0.502	20
Chromium, Total Recoverable	0.0500	ND	0.0507	0.0507	101	101	1	75.0-125			0.0118	20

L1633891-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633891-01 07/12/23 14:11 • (MS) R3947739-4 07/12/23 14:18 • (MSD) R3947739-5 07/12/23 14:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Copper, Total Recoverable	0.0500	ND	0.0473	0.0462	94.5	92.5	1	75.0-125			2.18	20
Nickel, Total Recoverable	0.0500	ND	0.0506	0.0496	99.2	97.2	1	75.0-125			1.94	20
Antimony, Total Recoverable	0.0500	ND	0.0447	0.0442	89.3	88.4	1	75.0-125			1.03	20
Thallium, Total Recoverable	0.0500	ND	0.0479	0.0492	95.9	98.3	1	75.0-125			2.55	20
Vanadium, Total Recoverable	0.0500	ND	0.0517	0.0500	102	99.0	1	75.0-125			3.23	20
Zinc, Total Recoverable	0.0500	0.00548	0.0519	0.0518	104	104	1	75.0-125			0.0376	20

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Method Blank (MB)

(MB) R3948671-2 07/12/23 09:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.0940	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichlorobenzene	ND		0.101	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
1,4-Dichlorobenzene	ND		0.121	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	ND		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromochloromethane	ND		0.145	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromoform	ND		0.186	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	ND		0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	ND		0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3948671-2 07/12/23 09:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Vinyl chloride	ND		0.118	0.500
Xylenes, Total	ND		0.316	1.50
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 1,2-Dichloroethane-d4	93.6			70.0-130
(S) 4-Bromofluorobenzene	90.3			77.0-126
(S) Toluene-d8	98.6			80.0-120

Laboratory Control Sample (LCS)

(LCS) R3948671-1 07/12/23 08:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1,2-Tetrachloroethane	5.00	5.18	104	75.0-125	
1,1,1-Trichloroethane	5.00	5.14	103	73.0-124	
1,1,2,2-Tetrachloroethane	5.00	5.34	107	65.0-130	
1,1,2-Trichloroethane	5.00	5.04	101	80.0-120	
1,1-Dichloroethane	5.00	5.37	107	70.0-126	
1,1-Dichloroethene	5.00	5.07	101	71.0-124	
1,2,3-Trichloropropane	5.00	5.50	110	73.0-130	
1,2-Dibromo-3-Chloropropane	5.00	4.39	87.8	58.0-134	
1,2-Dibromoethane	5.00	5.06	101	80.0-122	
1,2-Dichlorobenzene	5.00	5.03	101	79.0-121	
1,2-Dichloroethane	5.00	5.15	103	70.0-128	
1,2-Dichloropropane	5.00	5.39	108	77.0-125	
1,4-Dichlorobenzene	5.00	5.40	108	79.0-120	
2-Butanone (MEK)	25.0	31.5	126	44.0-160	
2-Hexanone	25.0	28.3	113	67.0-149	
4-Methyl-2-pentanone (MIBK)	25.0	28.0	112	68.0-142	
Acetone	25.0	27.8	111	19.0-160	
Acrylonitrile	25.0	35.7	143	55.0-149	
Benzene	5.00	4.83	96.6	70.0-123	
Bromochloromethane	5.00	5.46	109	76.0-122	
Bromodichloromethane	5.00	5.14	103	75.0-120	
Bromoform	5.00	4.76	95.2	68.0-132	
Bromomethane	5.00	1.77	35.4	10.0-160	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3948671-1 07/12/23 08:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Carbon disulfide	5.00	4.25	85.0	61.0-128	
Carbon tetrachloride	5.00	5.53	111	68.0-126	
Chlorobenzene	5.00	4.84	96.8	80.0-121	
Chloroethane	5.00	6.27	125	47.0-150	
Chloroform	5.00	5.19	104	73.0-120	
Chloromethane	5.00	3.38	67.6	41.0-142	
Dibromochloromethane	5.00	5.38	108	77.0-125	
Dibromomethane	5.00	5.96	119	80.0-120	
Ethylbenzene	5.00	5.31	106	79.0-123	
Iodomethane	25.0	14.2	56.8	33.0-147	
Methylene Chloride	5.00	5.50	110	67.0-120	
Styrene	5.00	4.34	86.8	73.0-130	
Tetrachloroethene	5.00	5.08	102	72.0-132	
Toluene	5.00	4.84	96.8	79.0-120	
Trichloroethene	5.00	4.70	94.0	78.0-124	
Trichlorofluoromethane	5.00	4.90	98.0	59.0-147	
Vinyl acetate	25.0	51.0	204	11.0-160	J4
Vinyl chloride	5.00	5.19	104	67.0-131	
Xylenes, Total	15.0	15.3	102	79.0-123	
cis-1,2-Dichloroethene	5.00	5.45	109	73.0-120	
cis-1,3-Dichloropropene	5.00	4.89	97.8	80.0-123	
trans-1,2-Dichloroethene	5.00	5.11	102	73.0-120	
trans-1,3-Dichloropropene	5.00	4.56	91.2	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	3.95	79.0	33.0-144	
(S) 1,2-Dichloroethane-d4			102	70.0-130	
(S) 4-Bromofluorobenzene			98.3	77.0-126	
(S) Toluene-d8			96.9	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

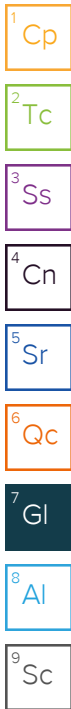
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Eco-Vista (Tontitown)LF

88 Joyce Lane
Russellville, AR 72801

Billing Information:

jrreyn10@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 3



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to:
Jodi Reynolds

Email To:
ciara.childers.beavers@jettenviro.com;jeffholm

Project Description:
Eco-Vista - GW-July

City/State
Collected:

Please Circle:
PT MT CT ET

Phone: 501-993-8966

Client Project #
200

Lab Project #
WMECOVISAR-00019

Collected by (print):
Chris Fincher

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

Same Day ___ Five Day ___
Next Day ___ 5 Day (Rad Only) ___
Two Day ___ 10 Day (Rad Only) ___
Three Day ___

Date Results Needed

No.
of
Cnts

Immediately
Packed on Ice N ___ Y X

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts
-----------	-----------	----------	-------	------	------	-------------

LGW-6R NE-10D	Grab	GW	101.45	7.8.23	1400	8
LGW-9 MW-17	↓	GW	60.35	↓	1515	8
LGW-10 MW-2N	↓	GW	70.95	↓	1635	8
LGW-14R MW-1N	↓	GW	81.70	↓	1735	8
LEACHATE-COMPOSITE MW-11N	↓	GW	63.55	↓	1835	8
DUP		GW				8
DUP2		GW				8
LCS-1	Grab	GW	N/A	7.9.23	0800	2
LCS-2	↓	GW	↓	↓	0830	2
LCS-3	↓	GW	↓	↓	0900	2

ALK, CHLORIDE, SULFA 250mIHDPPE-NoPres

CHLORIDE 125mIHDPPE-NoPres

Metals 250mIHDPPE-HNO3

NH3 250mIHDPPE-H2SO4

NH3,NO2NO3 250mIHDPPE-H2SO4

TDS 1L-HDPE NoPres

TOC 250mIHDPPE-HCI

V8260LL 40mIAmb-HCI

V8260LL TB 40mIAmb-HCI-BIK

Remarks | Sample # (lab only)

-01
-02
-03
-04
-05

-06
-07
-08

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:

___ UPS ___ FedEx ___ Courier

Tracking #

pH ___ Temp ___

Flow ___ Other ___

Sample Receipt Checklist

COC Seal Present/Intact: N
COC Signed/Accurate: N
Bottles arrive intact: N
Correct bottles used: N
Sufficient volume sent: N
If Applicable
VOA Zero Headspace: N
Preservation Correct/Checked: N
RAD Screen <0.5 mR/hr: N

Relinquished by: (Signature)

Date:

7.10.23

Time:

1800

Received by: (Signature)

Trip Blank Received: Yes/No

2 MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

97

If preservation required by lab, Date/Time

PH-10BDH4321 TRC-2313312
CR6-20221V

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

7.11.23 9:00

Hold:

Condition:
NCF / OK

Company Name/Address:

Eco-Vista (Tontitown)LF

88 Joyce Lane
Russellville, AR 72801

Billing Information:

jreyno10@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 3



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to:
Jodi Reynolds

Email To:
ciara.childrens.beavers@jettenviro.com; jeffholm

Project Description:
Eco-Vista - GW-July

City/State
Collected:

Please Circle:
PT MT CT ET

Phone: **501-993-8966**

Client Project #
200

Lab Project #
WMECOVISAR-00019

Collected by (print):
Chris Finley

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice N Y X

___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

No.
of
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts
LCS-4	Grab	GW	N/A	7.9.23	0930	2
LCS-5		GW			1000	2
LCS-6		GW			1030	2
LCS-7		GW			1100	2
LCS-8		GW			1130	2
LCS-9		GW			1300	2
LCS-10		GW			1330	2
LCS-11		GW			1400	2
LCS-12		GW			1430	2
LDS-1		GW			0815	3

ALK, CHLORIDE, SULFA 250mIHDPE-NoPres	CHLORIDE 125mIHDPE-NoPres	Metals 250mIHDPE-HNO3	NH3 250mIHDPE-H2SO4	NH3,NO2NO3 250mIHDPE-H2SO4	TDS 1L-HDPE NoPres	TOC 250mIHDPE-HCl	V8260LL 40mIAmb-HCl	V8260LL TB 40mIAmb-HCl-Bik
	X		X					
	X		X					
	X		X					
	X		X					
	X		X					
	X		X					
	X		X					
	X		X					
X		X		X				

SDG # U63891

Table #

Acctnum: **WMECOVISAR**
Template: **T211193**
Prelogin: **P1006574**
PM: 616 - Stacy Kennedy
PB:

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

-09
-10
-11
-12
-13
-14
-15
-16
-17
-18

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:
UPS ___ FedEx ___ Courier ___

Tracking #

pH ___ Temp ___
Flow ___ Other ___

Sample Receipt Checklist	
COC Seal Present/Intact: <u> </u> NP	<input checked="" type="checkbox"/> N
COC Signed/Accurate: <u> </u> Y	<input checked="" type="checkbox"/> N
Bottles arrive intact: <u> </u> Y	<input checked="" type="checkbox"/> N
Correct bottles used: <u> </u> Y	<input checked="" type="checkbox"/> N
Sufficient volume sent: <u> </u> Y	<input checked="" type="checkbox"/> N
If Applicable	
VOA Zero Headspace: <u> </u> Y	<input checked="" type="checkbox"/> N
Preservation Correct/Checked: <u> </u> Y	<input checked="" type="checkbox"/> N
RAD Screen <0.5 mR/hr: <u> </u> Y	<input checked="" type="checkbox"/> N

Relinquished by: (Signature) <i>[Signature]</i>	Date: 7.10.23	Time: 1800	Received by: (Signature)	Trip Blank Received: Yes/No HCL/MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 7.11.23 Time: 9:00 Hold: Condition: NCF / OK

Company Name/Address:
Eco-Vista (Tontitown)LF

88 Joyce Lane
Russellville, AR 72801

Billing Information:
jreyno10@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Report to:
Jodi Reynolds

Email To:
ciara.childers.beavers@jettenviro.com;jeffholm

Project Description:
Eco-Vista - GW-July

City/State
Collected:

Please Circle:
PT MT CT ET

Phone: **501-993-8966**

Client Project #
200

Lab Project #
WMECOVISAR-00019

Collected by (print):
Chotis Fincher

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

- Same Day Five Day
- Next Day 5 Day (Rad Only)
- Two Day 10 Day (Rad Only)
- Three Day

Date Results Needed

Immediately
Packed on Ice N Y X

No. of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

LDS-2	Grab	GW	N/A	7.9.23	0845	3
LDS-3		GW			0915	3
LDS-4		GW			0945	3
LDS-5		GW			1015	3
LDS-6		GW			1045	3
LDS-7		GW			1115	3
LDS-8		GW			1145	3
LDS-9		GW			1315	3
LDS-10		GW			1345	3
LDS-11		GW			1445	3
LDS-12		GW				

- * Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:

UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:

NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 3 of 3

Pres
Chk

ALK, CHLORIDE, SULFA 250mlHDPE-NoPres

CHLORIDE 125mlHDPE-NoPres

Metals 250mlHDPE-HNO3

NH3 250mlHDPE-H2SO4

NH3,NO2NO3 250mlHDPE-H2SO4

TDS 1L-HDPE NoPres

TOC 250mlHDPE-HCl

V8260LL 40mlAmb-HCl

V8260LL TB 40mlAmb-HCl-BIK



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # *41033891*

Table #

Acctnum: **WMECOVISAR**

Template: **T211193**

Prelogin: **P1006574**

PM: **616 - Stacy Kennedy**

PB:

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

-19

-20

-21

-22

-23

-24

-25

-26

-27

-28

Sample Receipt Checklist

COC Seal Present/Intact: NP N

COC Signed/Accurate: N

Bottles arrive intact: N

Correct bottles used: N

Sufficient volume sent: N

If Applicable

VOA Zero Headspace: N

Preservation Correct/Checked: N

RAD Screen <0.5 mR/hr: N



7/11-NCF-L1633891 WMECOVISAR

R5

Time estimate: oh

Time spent: oh

Members

-  Hailey Melson (responsible)
-  Stacy Kennedy

Due on 14 July 2023 8:00 AM for target Done

- Parameter(s) past holding time
- Temperature not in range
- Improper container type
- pH not in range
- Insufficient sample volume
- Sample is biphasic
- Vials received with headspace
- Broken container
- Sufficient sample remains
- If broken container: Insufficient packing material around container
- If broken container: Insufficient packing material inside cooler
- If broken container: Improper handling by carrier: _____
- If broken container: Sample was frozen
- If broken container: Container lid not intact
- Client informed by Call
- Client informed by Email
- Client informed by Voicemail
- Date/Time: _____
- PM initials: _____
- Client Contact: _____

Comments

- Hailey Melson* *11 July 2023 1:45 PM*

pH out of range for all LCS IDs. Sample reacted with Sulfuric so no samples were preserved.
- Stacy Kennedy* *11 July 2023 2:08 PM*

Noted. Please proceed with analysis. These are a leachate-type matrix.
- Hailey Melson* *11 July 2023 2:09 PM*

Done

Eco-Vista (Tontitown)LF

Sample Delivery Group: L1633864
Samples Received: 07/11/2023
Project Number: 200
Description: Eco-Vista - GW-July
Site: AR03
Report To: Jodi Reynolds
88 Joyce Lane
Russellville, AR 72801

Entire Report Reviewed By:



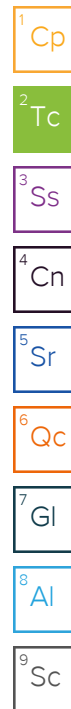
Stacy Kennedy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

LGW-7 L1633864-01 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 10:35
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2094125	1	07/13/23 14:37	07/13/23 16:08	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2093629	1	07/13/23 13:30	07/13/23 13:30	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 12:57	07/12/23 12:57	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:14	07/11/23 20:14	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096705	1	07/18/23 13:10	07/18/23 13:10	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2098147	1	07/21/23 22:16	07/21/23 22:16	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:18	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/13/23 23:13	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 01:38	07/12/23 01:38	JAH	Mt. Juliet, TN



MW-19 L1633864-02 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 17:05
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2094878	1	07/14/23 11:34	07/14/23 12:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2093629	1	07/13/23 11:56	07/13/23 11:56	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 12:58	07/12/23 12:58	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	5	07/11/23 20:15	07/11/23 20:15	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096705	1	07/18/23 13:20	07/18/23 13:20	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2098123	1	07/20/23 22:20	07/20/23 22:20	SJF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:21	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/13/23 23:16	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 01:57	07/12/23 01:57	JAH	Mt. Juliet, TN

MW-16 L1633864-03 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 16:30
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2094878	1	07/14/23 11:34	07/14/23 12:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2093629	1	07/13/23 12:01	07/13/23 12:01	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:03	07/12/23 13:03	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:16	07/11/23 20:16	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096705	1	07/18/23 13:30	07/18/23 13:30	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2098123	1	07/20/23 22:33	07/20/23 22:33	SJF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:24	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/13/23 23:19	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 02:16	07/12/23 02:16	JAH	Mt. Juliet, TN

MW-15 L1633864-04 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 15:55
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2094878	1	07/14/23 11:34	07/14/23 12:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2093629	1	07/13/23 13:23	07/13/23 13:23	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:10	07/12/23 13:10	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:17	07/11/23 20:17	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096705	1	07/18/23 13:40	07/18/23 13:40	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2098277	1	07/20/23 08:44	07/20/23 08:44	SJF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:26	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/13/23 23:23	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 02:34	07/12/23 02:34	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

LGW-2 L1633864-05 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 15:25
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2094125	1	07/13/23 14:37	07/13/23 16:08	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2093629	1	07/13/23 13:33	07/13/23 13:33	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:12	07/12/23 13:12	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:19	07/11/23 20:19	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096705	1	07/18/23 14:11	07/18/23 14:11	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2098277	1	07/20/23 09:34	07/20/23 09:34	SJF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:29	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/14/23 15:24	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 02:53	07/12/23 02:53	JAH	Mt. Juliet, TN



LGW-3R L1633864-06 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 08:30
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093592	1	07/13/23 09:06	07/13/23 10:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2093629	1	07/13/23 13:40	07/13/23 13:40	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:13	07/12/23 13:13	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:20	07/11/23 20:20	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096705	1	07/18/23 14:20	07/18/23 14:20	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/21/23 18:46	07/21/23 18:46	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:32	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/14/23 15:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 03:11	07/12/23 03:11	JAH	Mt. Juliet, TN

LGW-4 L1633864-07 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 09:10
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093592	1	07/13/23 09:06	07/13/23 10:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 10:51	07/17/23 10:51	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:15	07/12/23 13:15	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:21	07/11/23 20:21	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096705	1	07/18/23 14:30	07/18/23 14:30	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/21/23 19:41	07/21/23 19:41	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:35	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/14/23 15:31	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 03:30	07/12/23 03:30	JAH	Mt. Juliet, TN

LGW-5 L1633864-08 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 09:45
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2094125	1	07/13/23 14:37	07/13/23 16:08	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 10:55	07/17/23 10:55	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:16	07/12/23 13:16	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:23	07/11/23 20:23	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096705	1	07/18/23 14:40	07/18/23 14:40	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/21/23 20:07	07/21/23 20:07	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:37	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/14/23 15:35	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 03:48	07/12/23 03:48	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

LGW-6 L1633864-09 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 12:35
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2094125	1	07/13/23 14:37	07/13/23 16:08	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 10:59	07/17/23 10:59	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:18	07/12/23 13:18	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:32	07/11/23 20:32	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096705	1	07/18/23 14:50	07/18/23 14:50	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/21/23 20:20	07/21/23 20:20	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:40	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	5	07/12/23 01:19	07/13/23 18:44	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/14/23 15:38	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 04:07	07/12/23 04:07	JAH	Mt. Juliet, TN



LGW-8R L1633864-10 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 11:15
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2094232	1	07/13/23 12:18	07/13/23 13:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 11:33	07/17/23 11:33	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:19	07/12/23 13:19	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:33	07/11/23 20:33	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096705	1	07/18/23 15:00	07/18/23 15:00	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/21/23 20:33	07/21/23 20:33	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:43	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/14/23 15:41	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 04:25	07/12/23 04:25	JAH	Mt. Juliet, TN

LGW-9 L1633864-11 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 13:55
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2094232	1	07/13/23 12:18	07/13/23 13:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 11:37	07/17/23 11:37	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:21	07/12/23 13:21	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:34	07/11/23 20:34	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096705	1	07/18/23 15:10	07/18/23 15:10	JD	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/21/23 20:46	07/21/23 20:46	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:51	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/14/23 15:45	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 04:44	07/12/23 04:44	JAH	Mt. Juliet, TN

LGW-10 L1633864-12 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 14:30
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2094232	1	07/13/23 12:18	07/13/23 13:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 11:40	07/17/23 11:40	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:22	07/12/23 13:22	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:35	07/11/23 20:35	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	1	07/18/23 12:20	07/18/23 12:20	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/21/23 21:33	07/21/23 21:33	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:54	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/14/23 15:48	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 06:46	07/12/23 06:46	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

LGW-14R L1633864-13 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 13:20
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2094232	1	07/13/23 12:18	07/13/23 13:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 11:44	07/17/23 11:44	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:30	07/12/23 13:30	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:37	07/11/23 20:37	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	1	07/18/23 13:28	07/18/23 13:28	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/21/23 21:45	07/21/23 21:45	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:57	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/14/23 15:51	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093044	1	07/12/23 07:04	07/12/23 07:04	JAH	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

DUP-1 L1633864-14 GW

Collected by: Chris Fincher
 Collected date/time: 07/10/23 07:00
 Received date/time: 07/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093592	1	07/13/23 09:06	07/13/23 10:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2095978	1	07/17/23 11:48	07/17/23 11:48	ARD	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2092799	1	07/12/23 13:33	07/12/23 13:33	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2092816	1	07/11/23 20:38	07/11/23 20:38	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2096724	1	07/18/23 14:19	07/18/23 14:19	KMC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2099016	1	07/21/23 21:58	07/21/23 21:58	AW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	1	07/12/23 01:19	07/12/23 19:59	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2092916	5	07/12/23 01:19	07/13/23 18:47	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2092924	1	07/11/23 20:40	07/14/23 15:55	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2093479	1	07/12/23 16:12	07/12/23 16:12	DWR	Mt. Juliet, TN

7 Gl

8 Al

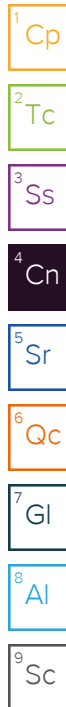
9 Sc

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Stacy Kennedy
Project Manager



Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Gravimetric Analysis by Method 2540 C-2011

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2094125	(DUP) R3949273-4	Dissolved Solids
WG2094232	(DUP) R3949810-4	Dissolved Solids
WG2094878	(DUP) R3949943-4, L1633864-02	Dissolved Solids

Wet Chemistry by Method 350.1

RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Batch	Lab Sample ID	Analytes
WG2092799	(DUP) R3947829-7, L1633864-13	Ammonia Nitrogen

Wet Chemistry by Method 9056A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2096705	(MSD) R3949944-5	Chloride

Metals (ICP) by Method 6010B

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2092916	(MS) R3948019-4, (MSD) R3948019-5	Calcium, Total Recoverable and Sodium, Total Recoverable

CASE NARRATIVE

Metals (ICPMS) by Method 6020

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG2092924	Zinc, Total Recoverable	L1633864-01, 02, 03, 04, 05, 06, 07, 08, 10, 12, 13

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2092924	(MS) R3948842-4, (MSD) R3948842-5	Zinc, Total Recoverable

Volatile Organic Compounds (GC/MS) by Method 8260B

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2093479	(LCS) R3948671-1, L1633864-14	Vinyl acetate

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.4	su
Specific Conductance (on site)	669	umhos/cm
Temperature (on-site)	19	Deg. C
Turbidity (on-site)	3.8	NTU
Dissolved Oxygen (on-site)	1.8	mg/l
eH/ORP (On Site)	179.2	mV
Depth to water (DTW) (FROM TOC)	43.17	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	353		10.0	1	07/13/2023 16:08	WG2094125

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	299		10.0	1	07/13/2023 13:30	WG2093629
Alkalinity,Bicarbonate	299		10.0	1	07/13/2023 13:30	WG2093629
Alkalinity,Carbonate	ND		10.0	1	07/13/2023 13:30	WG2093629

Sample Narrative:

L1633864-01 WG2093629: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 12:57	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.70		0.100	1	07/11/2023 20:14	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	17.3		3.00	1	07/18/2023 13:10	WG2096705
Sulfate	ND		5.00	1	07/18/2023 13:10	WG2096705

Wet Chemistry by Method 9060A

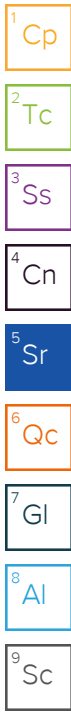
Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.73		1.00	1	07/21/2023 22:16	WG2098147

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:18	WG2092916
Barium,Total Recoverable	0.0636		0.00500	1	07/12/2023 19:18	WG2092916
Calcium, Total Recoverable	122		0.200	1	07/12/2023 19:18	WG2092916
Iron, Total Recoverable	ND		0.0600	1	07/12/2023 19:18	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:18	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	2.67		0.200	1	07/12/2023 19:18	WG2092916
Manganese, Total Recoverable	0.127		0.00300	1	07/12/2023 19:18	WG2092916
Sodium, Total Recoverable	7.98		5.00	1	07/12/2023 19:18	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:18	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:18	WG2092916



Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/13/2023 23:13	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/13/2023 23:13	WG2092924
Cadmium, Total Recoverable	ND		0.00100	1	07/13/2023 23:13	WG2092924
Cobalt, Total Recoverable	ND		0.00300	1	07/13/2023 23:13	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/13/2023 23:13	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/13/2023 23:13	WG2092924
Nickel, Total Recoverable	ND		0.00400	1	07/13/2023 23:13	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/13/2023 23:13	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/13/2023 23:13	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/13/2023 23:13	WG2092924
Zinc, Total Recoverable	0.0445	<u>B</u>	0.00500	1	07/13/2023 23:13	WG2092924

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 01:38	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 01:38	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 01:38	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 01:38	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 01:38	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 01:38	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 01:38	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 01:38	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 01:38	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 01:38	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 01:38	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 01:38	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 01:38	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 01:38	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 01:38	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 01:38	WG2093044
Acetone	ND		10.0	1	07/12/2023 01:38	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 01:38	WG2093044
Benzene	ND		1.00	1	07/12/2023 01:38	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 01:38	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 01:38	WG2093044
Bromoform	ND		1.00	1	07/12/2023 01:38	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 01:38	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 01:38	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 01:38	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 01:38	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 01:38	WG2093044
Chloroform	ND		1.00	1	07/12/2023 01:38	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 01:38	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 01:38	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 01:38	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 01:38	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 01:38	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 01:38	WG2093044
Styrene	ND		1.00	1	07/12/2023 01:38	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 01:38	WG2093044
Toluene	ND		1.00	1	07/12/2023 01:38	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 01:38	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 01:38	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 01:38	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 01:38	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 01:38	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 01:38	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 01:38	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 01:38	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 01:38	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 01:38	WG2093044
(S) 1,2-Dichloroethane-d4	105			70.0-130	07/12/2023 01:38	WG2093044
(S) 4-Bromofluorobenzene	98.5			77.0-126	07/12/2023 01:38	WG2093044
(S) Toluene-d8	104			80.0-120	07/12/2023 01:38	WG2093044

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.64	su
Specific Conductance (on site)	293	umhos/cm
Temperature (on-site)	20.8	Deg. C
Turbidity (on-site)	3	NTU
Dissolved Oxygen (on-site)	6.7	mg/l
eH/ORP (On Site)	141.1	mV
Depth to water (DTW) (FROM TOC)	68.15	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	184	J3	10.0	1	07/14/2023 12:58	WG2094878

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	92.4		10.0	1	07/13/2023 11:56	WG2093629
Alkalinity,Bicarbonate	92.4		10.0	1	07/13/2023 11:56	WG2093629
Alkalinity,Carbonate	ND		10.0	1	07/13/2023 11:56	WG2093629

Sample Narrative:

L1633864-02 WG2093629: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 12:58	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	5.20		0.100	5	07/11/2023 20:15	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	7.75		3.00	1	07/18/2023 13:20	WG2096705
Sulfate	5.47		5.00	1	07/18/2023 13:20	WG2096705

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/20/2023 22:20	WG2098123

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:21	WG2092916
Barium,Total Recoverable	0.0221		0.00500	1	07/12/2023 19:21	WG2092916
Calcium, Total Recoverable	41.0		0.200	1	07/12/2023 19:21	WG2092916
Iron, Total Recoverable	ND		0.0600	1	07/12/2023 19:21	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:21	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	1.54		0.200	1	07/12/2023 19:21	WG2092916
Manganese, Total Recoverable	ND		0.00300	1	07/12/2023 19:21	WG2092916
Sodium, Total Recoverable	6.60		5.00	1	07/12/2023 19:21	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:21	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:21	WG2092916

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/13/2023 23:16	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/13/2023 23:16	WG2092924
Cadmium, Total Recoverable	ND		0.00100	1	07/13/2023 23:16	WG2092924
Cobalt, Total Recoverable	ND		0.00300	1	07/13/2023 23:16	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/13/2023 23:16	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/13/2023 23:16	WG2092924
Nickel, Total Recoverable	ND		0.00400	1	07/13/2023 23:16	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/13/2023 23:16	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/13/2023 23:16	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/13/2023 23:16	WG2092924
Zinc, Total Recoverable	0.00588	<u>B J</u>	0.00500	1	07/13/2023 23:16	WG2092924

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 01:57	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 01:57	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 01:57	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 01:57	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 01:57	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 01:57	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 01:57	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 01:57	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 01:57	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 01:57	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 01:57	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 01:57	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 01:57	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 01:57	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 01:57	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 01:57	WG2093044
Acetone	ND		10.0	1	07/12/2023 01:57	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 01:57	WG2093044
Benzene	ND		1.00	1	07/12/2023 01:57	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 01:57	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 01:57	WG2093044
Bromoform	ND		1.00	1	07/12/2023 01:57	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 01:57	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 01:57	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 01:57	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 01:57	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 01:57	WG2093044
Chloroform	ND		1.00	1	07/12/2023 01:57	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 01:57	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 01:57	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 01:57	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 01:57	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 01:57	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 01:57	WG2093044
Styrene	ND		1.00	1	07/12/2023 01:57	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 01:57	WG2093044
Toluene	ND		1.00	1	07/12/2023 01:57	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 01:57	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 01:57	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 01:57	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 01:57	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 01:57	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 01:57	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 01:57	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 01:57	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 01:57	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 01:57	WG2093044
(S) 1,2-Dichloroethane-d4	101			70.0-130	07/12/2023 01:57	WG2093044
(S) 4-Bromofluorobenzene	92.3			77.0-126	07/12/2023 01:57	WG2093044
(S) Toluene-d8	106			80.0-120	07/12/2023 01:57	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.04	su
Specific Conductance (on site)	380	umhos/cm
Temperature (on-site)	19.3	Deg. C
Turbidity (on-site)	4	NTU
Dissolved Oxygen (on-site)	6.6	mg/l
eH/ORP (On Site)	148.6	mV
Depth to water (DTW) (FROM TOC)	73.34	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	215		10.0	1	07/14/2023 12:58	WG2094878

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	170		10.0	1	07/13/2023 12:01	WG2093629
Alkalinity,Bicarbonate	170		10.0	1	07/13/2023 12:01	WG2093629
Alkalinity,Carbonate	ND		10.0	1	07/13/2023 12:01	WG2093629

Sample Narrative:

L1633864-03 WG2093629: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:03	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.210		0.100	1	07/11/2023 20:16	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	4.08		3.00	1	07/18/2023 13:30	WG2096705
Sulfate	ND		5.00	1	07/18/2023 13:30	WG2096705

Wet Chemistry by Method 9060A

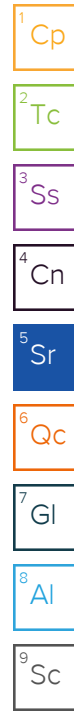
Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/20/2023 22:33	WG2098123

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:24	WG2092916
Barium,Total Recoverable	0.0327		0.00500	1	07/12/2023 19:24	WG2092916
Calcium, Total Recoverable	65.9		0.200	1	07/12/2023 19:24	WG2092916
Iron, Total Recoverable	ND		0.0600	1	07/12/2023 19:24	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:24	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	1.23		0.200	1	07/12/2023 19:24	WG2092916
Manganese, Total Recoverable	ND		0.00300	1	07/12/2023 19:24	WG2092916
Sodium, Total Recoverable	ND		5.00	1	07/12/2023 19:24	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:24	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:24	WG2092916



Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/13/2023 23:19	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/13/2023 23:19	WG2092924
Cadmium, Total Recoverable	ND		0.00100	1	07/13/2023 23:19	WG2092924
Cobalt, Total Recoverable	ND		0.00300	1	07/13/2023 23:19	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/13/2023 23:19	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/13/2023 23:19	WG2092924
Nickel, Total Recoverable	ND		0.00400	1	07/13/2023 23:19	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/13/2023 23:19	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/13/2023 23:19	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/13/2023 23:19	WG2092924
Zinc, Total Recoverable	0.00831	<u>B J</u>	0.00500	1	07/13/2023 23:19	WG2092924

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 02:16	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 02:16	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 02:16	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 02:16	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 02:16	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 02:16	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 02:16	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 02:16	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 02:16	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 02:16	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 02:16	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 02:16	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 02:16	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 02:16	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 02:16	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 02:16	WG2093044
Acetone	ND		10.0	1	07/12/2023 02:16	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 02:16	WG2093044
Benzene	ND		1.00	1	07/12/2023 02:16	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 02:16	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 02:16	WG2093044
Bromoform	ND		1.00	1	07/12/2023 02:16	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 02:16	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 02:16	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 02:16	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 02:16	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 02:16	WG2093044
Chloroform	ND		1.00	1	07/12/2023 02:16	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 02:16	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 02:16	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 02:16	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 02:16	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 02:16	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 02:16	WG2093044
Styrene	ND		1.00	1	07/12/2023 02:16	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 02:16	WG2093044
Toluene	ND		1.00	1	07/12/2023 02:16	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 02:16	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 02:16	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 02:16	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 02:16	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 02:16	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 02:16	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 02:16	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 02:16	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 02:16	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 02:16	WG2093044
(S) 1,2-Dichloroethane-d4	103			70.0-130	07/12/2023 02:16	WG2093044
(S) 4-Bromofluorobenzene	97.6			77.0-126	07/12/2023 02:16	WG2093044
(S) Toluene-d8	104			80.0-120	07/12/2023 02:16	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.23	su
Specific Conductance (on site)	581	umhos/cm
Temperature (on-site)	17.5	Deg. C
Turbidity (on-site)	4.2	NTU
Dissolved Oxygen (on-site)	5.6	mg/l
eH/ORP (On Site)	178.1	mV
Depth to water (DTW) (FROM TOC)	58.58	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	310		10.0	1	07/14/2023 12:58	WG2094878

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	194		10.0	1	07/13/2023 13:23	WG2093629
Alkalinity,Bicarbonate	194		10.0	1	07/13/2023 13:23	WG2093629
Alkalinity,Carbonate	ND		10.0	1	07/13/2023 13:23	WG2093629

Sample Narrative:

L1633864-04 WG2093629: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:10	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.81		0.100	1	07/11/2023 20:17	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	35.7		3.00	1	07/18/2023 13:40	WG2096705
Sulfate	11.3		5.00	1	07/18/2023 13:40	WG2096705

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	3.84		1.00	1	07/20/2023 08:44	WG2098277

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:26	WG2092916
Barium, Total Recoverable	0.0242		0.00500	1	07/12/2023 19:26	WG2092916
Calcium, Total Recoverable	74.3		0.200	1	07/12/2023 19:26	WG2092916
Iron, Total Recoverable	ND		0.0600	1	07/12/2023 19:26	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:26	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	4.33		0.200	1	07/12/2023 19:26	WG2092916
Manganese, Total Recoverable	0.00354	J	0.00300	1	07/12/2023 19:26	WG2092916
Sodium, Total Recoverable	29.7		5.00	1	07/12/2023 19:26	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:26	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:26	WG2092916

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/13/2023 23:23	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/13/2023 23:23	WG2092924
Cadmium, Total Recoverable	ND		0.00100	1	07/13/2023 23:23	WG2092924
Cobalt, Total Recoverable	ND		0.00300	1	07/13/2023 23:23	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/13/2023 23:23	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/13/2023 23:23	WG2092924
Nickel, Total Recoverable	ND		0.00400	1	07/13/2023 23:23	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/13/2023 23:23	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/13/2023 23:23	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/13/2023 23:23	WG2092924
Zinc, Total Recoverable	0.00643	B J	0.00500	1	07/13/2023 23:23	WG2092924

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 02:34	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 02:34	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 02:34	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 02:34	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 02:34	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 02:34	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 02:34	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 02:34	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 02:34	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 02:34	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 02:34	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 02:34	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 02:34	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 02:34	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 02:34	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 02:34	WG2093044
Acetone	ND		10.0	1	07/12/2023 02:34	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 02:34	WG2093044
Benzene	ND		1.00	1	07/12/2023 02:34	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 02:34	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 02:34	WG2093044
Bromoform	ND		1.00	1	07/12/2023 02:34	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 02:34	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 02:34	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 02:34	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 02:34	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 02:34	WG2093044
Chloroform	ND		1.00	1	07/12/2023 02:34	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 02:34	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 02:34	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 02:34	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 02:34	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 02:34	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 02:34	WG2093044
Styrene	ND		1.00	1	07/12/2023 02:34	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 02:34	WG2093044
Toluene	ND		1.00	1	07/12/2023 02:34	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 02:34	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 02:34	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 02:34	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 02:34	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 02:34	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 02:34	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 02:34	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 02:34	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 02:34	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 02:34	WG2093044
(S) 1,2-Dichloroethane-d4	106			70.0-130	07/12/2023 02:34	WG2093044
(S) 4-Bromofluorobenzene	98.3			77.0-126	07/12/2023 02:34	WG2093044
(S) Toluene-d8	102			80.0-120	07/12/2023 02:34	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

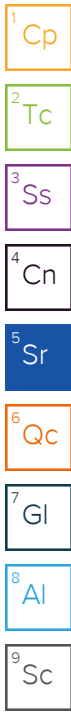
7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.24	su
Specific Conductance (on site)	632	umhos/cm
Temperature (on-site)	19.7	Deg. C
Turbidity (on-site)	4.5	NTU
Dissolved Oxygen (on-site)	5.8	mg/l
eH/ORP (On Site)	157.6	mV
Depth to water (DTW) (FROM TOC)	72.17	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	322		10.0	1	07/13/2023 16:08	WG2094125

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	286		10.0	1	07/13/2023 13:33	WG2093629
Alkalinity,Bicarbonate	286		10.0	1	07/13/2023 13:33	WG2093629
Alkalinity,Carbonate	ND		10.0	1	07/13/2023 13:33	WG2093629

Sample Narrative:

L1633864-05 WG2093629: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:12	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.23		0.100	1	07/11/2023 20:19	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	10.2		3.00	1	07/18/2023 14:11	WG2096705
Sulfate	ND		5.00	1	07/18/2023 14:11	WG2096705

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	2.54		1.00	1	07/20/2023 09:34	WG2098277

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:29	WG2092916
Barium, Total Recoverable	0.0741		0.00500	1	07/12/2023 19:29	WG2092916
Calcium, Total Recoverable	114		0.200	1	07/12/2023 19:29	WG2092916
Iron, Total Recoverable	ND		0.0600	1	07/12/2023 19:29	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:29	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	1.01		0.200	1	07/12/2023 19:29	WG2092916
Manganese, Total Recoverable	ND		0.00300	1	07/12/2023 19:29	WG2092916
Sodium, Total Recoverable	11.1		5.00	1	07/12/2023 19:29	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:29	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:29	WG2092916

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/14/2023 15:24	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/14/2023 15:24	WG2092924
Cadmium, Total Recoverable	ND		0.00100	1	07/14/2023 15:24	WG2092924
Cobalt, Total Recoverable	ND		0.00300	1	07/14/2023 15:24	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/14/2023 15:24	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/14/2023 15:24	WG2092924
Nickel, Total Recoverable	ND		0.00400	1	07/14/2023 15:24	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/14/2023 15:24	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/14/2023 15:24	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/14/2023 15:24	WG2092924
Zinc, Total Recoverable	0.00697	<u>B J</u>	0.00500	1	07/14/2023 15:24	WG2092924

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 02:53	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 02:53	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 02:53	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 02:53	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 02:53	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 02:53	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 02:53	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 02:53	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 02:53	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 02:53	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 02:53	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 02:53	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 02:53	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 02:53	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 02:53	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 02:53	WG2093044
Acetone	ND		10.0	1	07/12/2023 02:53	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 02:53	WG2093044
Benzene	ND		1.00	1	07/12/2023 02:53	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 02:53	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 02:53	WG2093044
Bromoform	ND		1.00	1	07/12/2023 02:53	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 02:53	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 02:53	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 02:53	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 02:53	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 02:53	WG2093044
Chloroform	ND		1.00	1	07/12/2023 02:53	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 02:53	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 02:53	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 02:53	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 02:53	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 02:53	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 02:53	WG2093044
Styrene	ND		1.00	1	07/12/2023 02:53	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 02:53	WG2093044
Toluene	ND		1.00	1	07/12/2023 02:53	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 02:53	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 02:53	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 02:53	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 02:53	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 02:53	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 02:53	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 02:53	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 02:53	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 02:53	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 02:53	WG2093044
(S) 1,2-Dichloroethane-d4	105			70.0-130	07/12/2023 02:53	WG2093044
(S) 4-Bromofluorobenzene	96.6			77.0-126	07/12/2023 02:53	WG2093044
(S) Toluene-d8	103			80.0-120	07/12/2023 02:53	WG2093044

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

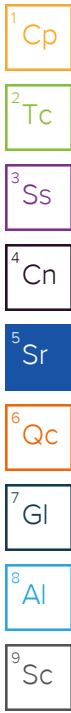
7
Gl

8
Al

9
Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.66	su
Specific Conductance (on site)	102	umhos/cm
Temperature (on-site)	16.7	Deg. C
Turbidity (on-site)	11	NTU
Dissolved Oxygen (on-site)	5.9	mg/l
eH/ORP (On Site)	244.9	mV
Depth to water (DTW) (FROM TOC)	55.19	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	57.0		10.0	1	07/13/2023 10:05	WG2093592

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	24.8		10.0	1	07/13/2023 13:40	WG2093629
Alkalinity,Bicarbonate	24.8		10.0	1	07/13/2023 13:40	WG2093629
Alkalinity,Carbonate	ND		10.0	1	07/13/2023 13:40	WG2093629

Sample Narrative:

L1633864-06 WG2093629: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:13	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.70		0.100	1	07/11/2023 20:20	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	5.33		3.00	1	07/18/2023 14:20	WG2096705
Sulfate	ND		5.00	1	07/18/2023 14:20	WG2096705

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/21/2023 18:46	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:32	WG2092916
Barium, Total Recoverable	0.0535		0.00500	1	07/12/2023 19:32	WG2092916
Calcium, Total Recoverable	10.1		0.200	1	07/12/2023 19:32	WG2092916
Iron, Total Recoverable	0.159		0.0600	1	07/12/2023 19:32	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:32	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	0.945	J	0.200	1	07/12/2023 19:32	WG2092916
Manganese, Total Recoverable	0.0219		0.00300	1	07/12/2023 19:32	WG2092916
Sodium, Total Recoverable	ND		5.00	1	07/12/2023 19:32	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:32	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:32	WG2092916



Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/14/2023 15:28	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/14/2023 15:28	WG2092924
Cadmium, Total Recoverable	ND		0.00100	1	07/14/2023 15:28	WG2092924
Cobalt, Total Recoverable	ND		0.00300	1	07/14/2023 15:28	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/14/2023 15:28	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/14/2023 15:28	WG2092924
Nickel, Total Recoverable	ND		0.00400	1	07/14/2023 15:28	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/14/2023 15:28	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/14/2023 15:28	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/14/2023 15:28	WG2092924
Zinc, Total Recoverable	0.00752	B J	0.00500	1	07/14/2023 15:28	WG2092924



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 03:11	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 03:11	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 03:11	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 03:11	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 03:11	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 03:11	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 03:11	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 03:11	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 03:11	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 03:11	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 03:11	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 03:11	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 03:11	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 03:11	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 03:11	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 03:11	WG2093044
Acetone	ND		10.0	1	07/12/2023 03:11	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 03:11	WG2093044
Benzene	ND		1.00	1	07/12/2023 03:11	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 03:11	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 03:11	WG2093044
Bromoform	ND		1.00	1	07/12/2023 03:11	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 03:11	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 03:11	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 03:11	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 03:11	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 03:11	WG2093044
Chloroform	ND		1.00	1	07/12/2023 03:11	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 03:11	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 03:11	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 03:11	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 03:11	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 03:11	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 03:11	WG2093044
Styrene	ND		1.00	1	07/12/2023 03:11	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 03:11	WG2093044
Toluene	ND		1.00	1	07/12/2023 03:11	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 03:11	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 03:11	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 03:11	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 03:11	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 03:11	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 03:11	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 03:11	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 03:11	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 03:11	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 03:11	WG2093044
(S) 1,2-Dichloroethane-d4	104			70.0-130	07/12/2023 03:11	WG2093044
(S) 4-Bromofluorobenzene	97.0			77.0-126	07/12/2023 03:11	WG2093044
(S) Toluene-d8	103			80.0-120	07/12/2023 03:11	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

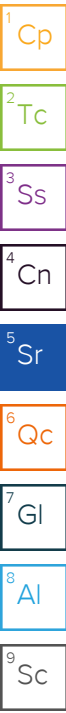
7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.16	su
Specific Conductance (on site)	759	umhos/cm
Temperature (on-site)	17.1	Deg. C
Turbidity (on-site)	9.8	NTU
Dissolved Oxygen (on-site)	2.5	mg/l
eH/ORP (On Site)	183.7	mV
Depth to water (DTW) (FROM TOC)	60.44	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	393		10.0	1	07/13/2023 10:05	WG2093592

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	340		10.0	1	07/17/2023 10:51	WG2095978
Alkalinity,Bicarbonate	340		10.0	1	07/17/2023 10:51	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 10:51	WG2095978

Sample Narrative:

L1633864-07 WG2095978: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:15	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.55		0.100	1	07/11/2023 20:21	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	17.6		3.00	1	07/18/2023 14:30	WG2096705
Sulfate	ND		5.00	1	07/18/2023 14:30	WG2096705

Wet Chemistry by Method 9060A

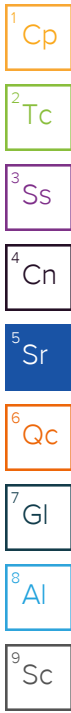
Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.49		1.00	1	07/21/2023 19:41	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:35	WG2092916
Barium, Total Recoverable	0.0645		0.00500	1	07/12/2023 19:35	WG2092916
Calcium, Total Recoverable	138		0.200	1	07/12/2023 19:35	WG2092916
Iron, Total Recoverable	ND		0.0600	1	07/12/2023 19:35	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:35	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	2.17		0.200	1	07/12/2023 19:35	WG2092916
Manganese, Total Recoverable	0.135		0.00300	1	07/12/2023 19:35	WG2092916
Sodium, Total Recoverable	10.3		5.00	1	07/12/2023 19:35	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:35	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:35	WG2092916



Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/14/2023 15:31	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/14/2023 15:31	WG2092924
Cadmium, Total Recoverable	ND		0.00100	1	07/14/2023 15:31	WG2092924
Cobalt, Total Recoverable	ND		0.00300	1	07/14/2023 15:31	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/14/2023 15:31	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/14/2023 15:31	WG2092924
Nickel, Total Recoverable	ND		0.00400	1	07/14/2023 15:31	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/14/2023 15:31	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/14/2023 15:31	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/14/2023 15:31	WG2092924
Zinc, Total Recoverable	0.0187	<u>BJ</u>	0.00500	1	07/14/2023 15:31	WG2092924

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 03:30	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 03:30	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 03:30	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 03:30	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 03:30	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 03:30	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 03:30	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 03:30	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 03:30	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 03:30	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 03:30	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 03:30	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 03:30	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 03:30	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 03:30	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 03:30	WG2093044
Acetone	ND		10.0	1	07/12/2023 03:30	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 03:30	WG2093044
Benzene	ND		1.00	1	07/12/2023 03:30	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 03:30	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 03:30	WG2093044
Bromoform	ND		1.00	1	07/12/2023 03:30	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 03:30	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 03:30	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 03:30	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 03:30	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 03:30	WG2093044
Chloroform	ND		1.00	1	07/12/2023 03:30	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 03:30	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 03:30	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 03:30	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 03:30	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 03:30	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 03:30	WG2093044
Styrene	ND		1.00	1	07/12/2023 03:30	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 03:30	WG2093044
Toluene	ND		1.00	1	07/12/2023 03:30	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 03:30	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 03:30	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 03:30	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 03:30	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 03:30	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 03:30	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 03:30	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 03:30	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 03:30	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 03:30	WG2093044
(S) 1,2-Dichloroethane-d4	104			70.0-130	07/12/2023 03:30	WG2093044
(S) 4-Bromofluorobenzene	93.6			77.0-126	07/12/2023 03:30	WG2093044
(S) Toluene-d8	105			80.0-120	07/12/2023 03:30	WG2093044

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

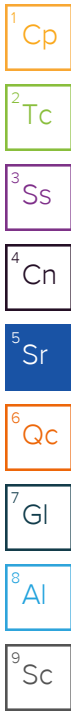
7
Gl

8
Al

9
Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.14	su
Specific Conductance (on site)	798	umhos/cm
Temperature (on-site)	20.5	Deg. C
Turbidity (on-site)	3.8	NTU
Dissolved Oxygen (on-site)	1.1	mg/l
eH/ORP (On Site)	192.5	mV
Depth to water (DTW) (FROM TOC)	70.92	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	417		10.0	1	07/13/2023 16:08	WG2094125

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	321		10.0	1	07/17/2023 10:55	WG2095978
Alkalinity,Bicarbonate	321		10.0	1	07/17/2023 10:55	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 10:55	WG2095978

Sample Narrative:

L1633864-08 WG2095978: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.182		0.100	1	07/12/2023 13:16	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.100	1	07/11/2023 20:23	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	31.9		3.00	1	07/18/2023 14:40	WG2096705
Sulfate	5.18		5.00	1	07/18/2023 14:40	WG2096705

Wet Chemistry by Method 9060A

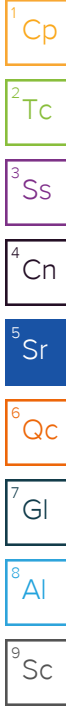
Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	2.20		1.00	1	07/21/2023 20:07	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:37	WG2092916
Barium, Total Recoverable	0.120		0.00500	1	07/12/2023 19:37	WG2092916
Calcium, Total Recoverable	117		0.200	1	07/12/2023 19:37	WG2092916
Iron, Total Recoverable	1.48		0.0600	1	07/12/2023 19:37	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:37	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	4.19		0.200	1	07/12/2023 19:37	WG2092916
Manganese, Total Recoverable	14.7		0.00300	1	07/12/2023 19:37	WG2092916
Sodium, Total Recoverable	19.6		5.00	1	07/12/2023 19:37	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:37	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:37	WG2092916



Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/14/2023 15:35	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/14/2023 15:35	WG2092924
Cadmium, Total Recoverable	ND		0.00100	1	07/14/2023 15:35	WG2092924
Cobalt, Total Recoverable	0.00986		0.00300	1	07/14/2023 15:35	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/14/2023 15:35	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/14/2023 15:35	WG2092924
Nickel, Total Recoverable	0.0893		0.00400	1	07/14/2023 15:35	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/14/2023 15:35	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/14/2023 15:35	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/14/2023 15:35	WG2092924
Zinc, Total Recoverable	0.0209	<u>B J</u>	0.00500	1	07/14/2023 15:35	WG2092924

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 03:48	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 03:48	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 03:48	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 03:48	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 03:48	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 03:48	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 03:48	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 03:48	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 03:48	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 03:48	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 03:48	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 03:48	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 03:48	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 03:48	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 03:48	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 03:48	WG2093044
Acetone	ND		10.0	1	07/12/2023 03:48	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 03:48	WG2093044
Benzene	ND		1.00	1	07/12/2023 03:48	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 03:48	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 03:48	WG2093044
Bromoform	ND		1.00	1	07/12/2023 03:48	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 03:48	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 03:48	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 03:48	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 03:48	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 03:48	WG2093044
Chloroform	ND		1.00	1	07/12/2023 03:48	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 03:48	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 03:48	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 03:48	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 03:48	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 03:48	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 03:48	WG2093044
Styrene	ND		1.00	1	07/12/2023 03:48	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 03:48	WG2093044
Toluene	ND		1.00	1	07/12/2023 03:48	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 03:48	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 03:48	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 03:48	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 03:48	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 03:48	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 03:48	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 03:48	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 03:48	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 03:48	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 03:48	WG2093044
(S) 1,2-Dichloroethane-d4	103			70.0-130	07/12/2023 03:48	WG2093044
(S) 4-Bromofluorobenzene	97.3			77.0-126	07/12/2023 03:48	WG2093044
(S) Toluene-d8	104			80.0-120	07/12/2023 03:48	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.27	su
Specific Conductance (on site)	749	umhos/cm
Temperature (on-site)	19.4	Deg. C
Turbidity (on-site)	4.2	NTU
Dissolved Oxygen (on-site)	0.4	mg/l
eH/ORP (On Site)	179.4	mV
Depth to water (DTW) (FROM TOC)	50.4	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	405		10.0	1	07/13/2023 16:08	WG2094125

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	347		10.0	1	07/17/2023 10:59	WG2095978
Alkalinity,Bicarbonate	347		10.0	1	07/17/2023 10:59	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 10:59	WG2095978

Sample Narrative:

L1633864-09 WG2095978: Endpoint pH 4.5

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:18	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.100	1	07/11/2023 20:32	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	15.0		3.00	1	07/18/2023 14:50	WG2096705
Sulfate	ND		5.00	1	07/18/2023 14:50	WG2096705

Wet Chemistry by Method 9060A

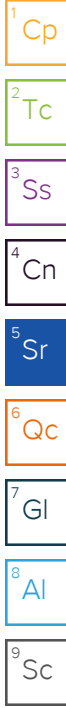
Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.26		1.00	1	07/21/2023 20:20	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:40	WG2092916
Barium, Total Recoverable	0.208		0.00500	1	07/12/2023 19:40	WG2092916
Calcium, Total Recoverable	109		0.200	1	07/12/2023 19:40	WG2092916
Iron, Total Recoverable	1.20		0.0600	1	07/12/2023 19:40	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:40	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	4.46		0.200	1	07/12/2023 19:40	WG2092916
Manganese, Total Recoverable	37.4		0.00600	5	07/13/2023 18:44	WG2092916
Sodium, Total Recoverable	9.90		5.00	1	07/12/2023 19:40	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:40	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:40	WG2092916



Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/14/2023 15:38	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/14/2023 15:38	WG2092924
Cadmium, Total Recoverable	0.00188		0.00100	1	07/14/2023 15:38	WG2092924
Cobalt, Total Recoverable	0.0245		0.00300	1	07/14/2023 15:38	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/14/2023 15:38	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/14/2023 15:38	WG2092924
Nickel, Total Recoverable	0.167		0.00400	1	07/14/2023 15:38	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/14/2023 15:38	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/14/2023 15:38	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/14/2023 15:38	WG2092924
Zinc, Total Recoverable	0.156		0.00500	1	07/14/2023 15:38	WG2092924

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 04:07	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 04:07	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 04:07	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 04:07	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 04:07	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 04:07	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 04:07	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 04:07	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 04:07	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 04:07	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 04:07	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 04:07	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 04:07	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 04:07	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 04:07	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 04:07	WG2093044
Acetone	ND		10.0	1	07/12/2023 04:07	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 04:07	WG2093044
Benzene	ND		1.00	1	07/12/2023 04:07	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 04:07	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 04:07	WG2093044
Bromoform	ND		1.00	1	07/12/2023 04:07	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 04:07	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 04:07	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 04:07	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 04:07	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 04:07	WG2093044
Chloroform	ND		1.00	1	07/12/2023 04:07	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 04:07	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 04:07	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 04:07	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 04:07	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 04:07	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 04:07	WG2093044
Styrene	ND		1.00	1	07/12/2023 04:07	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 04:07	WG2093044
Toluene	ND		1.00	1	07/12/2023 04:07	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 04:07	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 04:07	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 04:07	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 04:07	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 04:07	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 04:07	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 04:07	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 04:07	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 04:07	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 04:07	WG2093044
(S) 1,2-Dichloroethane-d4	104			70.0-130	07/12/2023 04:07	WG2093044
(S) 4-Bromofluorobenzene	95.4			77.0-126	07/12/2023 04:07	WG2093044
(S) Toluene-d8	101			80.0-120	07/12/2023 04:07	WG2093044

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

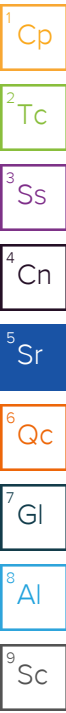
7
Gl

8
Al

9
Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.42	su
Specific Conductance (on site)	779	umhos/cm
Temperature (on-site)	16.9	Deg. C
Turbidity (on-site)	3.7	NTU
Dissolved Oxygen (on-site)	0.2	mg/l
eH/ORP (On Site)	172.2	mV
Depth to water (DTW) (FROM TOC)	10.78	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	394		10.0	1	07/13/2023 13:00	WG2094232

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	346		10.0	1	07/17/2023 11:33	WG2095978
Alkalinity,Bicarbonate	346		10.0	1	07/17/2023 11:33	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 11:33	WG2095978

Sample Narrative:

L1633864-10 WG2095978: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:19	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.692		0.100	1	07/11/2023 20:33	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	18.0		3.00	1	07/18/2023 15:00	WG2096705
Sulfate	ND		5.00	1	07/18/2023 15:00	WG2096705

Wet Chemistry by Method 9060A

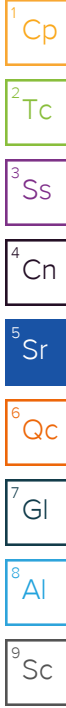
Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.41		1.00	1	07/21/2023 20:33	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:43	WG2092916
Barium, Total Recoverable	0.0870		0.00500	1	07/12/2023 19:43	WG2092916
Calcium, Total Recoverable	139		0.200	1	07/12/2023 19:43	WG2092916
Iron, Total Recoverable	ND		0.0600	1	07/12/2023 19:43	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:43	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	3.30		0.200	1	07/12/2023 19:43	WG2092916
Manganese, Total Recoverable	0.117		0.00300	1	07/12/2023 19:43	WG2092916
Sodium, Total Recoverable	9.96		5.00	1	07/12/2023 19:43	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:43	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:43	WG2092916



Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/14/2023 15:41	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/14/2023 15:41	WG2092924
Cadmium, Total Recoverable	0.00154		0.00100	1	07/14/2023 15:41	WG2092924
Cobalt, Total Recoverable	ND		0.00300	1	07/14/2023 15:41	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/14/2023 15:41	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/14/2023 15:41	WG2092924
Nickel, Total Recoverable	0.00980		0.00400	1	07/14/2023 15:41	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/14/2023 15:41	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/14/2023 15:41	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/14/2023 15:41	WG2092924
Zinc, Total Recoverable	0.0387	<u>B</u>	0.00500	1	07/14/2023 15:41	WG2092924

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 04:25	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 04:25	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 04:25	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 04:25	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 04:25	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 04:25	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 04:25	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 04:25	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 04:25	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 04:25	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 04:25	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 04:25	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 04:25	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 04:25	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 04:25	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 04:25	WG2093044
Acetone	ND		10.0	1	07/12/2023 04:25	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 04:25	WG2093044
Benzene	ND		1.00	1	07/12/2023 04:25	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 04:25	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 04:25	WG2093044
Bromoform	ND		1.00	1	07/12/2023 04:25	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 04:25	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 04:25	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 04:25	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 04:25	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 04:25	WG2093044
Chloroform	ND		1.00	1	07/12/2023 04:25	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 04:25	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 04:25	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 04:25	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 04:25	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 04:25	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 04:25	WG2093044
Styrene	ND		1.00	1	07/12/2023 04:25	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 04:25	WG2093044
Toluene	ND		1.00	1	07/12/2023 04:25	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 04:25	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 04:25	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 04:25	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 04:25	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 04:25	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 04:25	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 04:25	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 04:25	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 04:25	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 04:25	WG2093044
(S) 1,2-Dichloroethane-d4	103			70.0-130	07/12/2023 04:25	WG2093044
(S) 4-Bromofluorobenzene	97.8			77.0-126	07/12/2023 04:25	WG2093044
(S) Toluene-d8	103			80.0-120	07/12/2023 04:25	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.17	su
Specific Conductance (on site)	834	umhos/cm
Temperature (on-site)	18.1	Deg. C
Turbidity (on-site)	3.9	NTU
Dissolved Oxygen (on-site)	0.4	mg/l
eH/ORP (On Site)	181	mV
Depth to water (DTW) (FROM TOC)	54.44	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	437		10.0	1	07/13/2023 13:00	WG2094232

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	341		10.0	1	07/17/2023 11:37	WG2095978
Alkalinity,Bicarbonate	341		10.0	1	07/17/2023 11:37	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 11:37	WG2095978

Sample Narrative:

L1633864-11 WG2095978: Endpoint pH 4.5

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:21	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.505		0.100	1	07/11/2023 20:34	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	35.1		3.00	1	07/18/2023 15:10	WG2096705
Sulfate	5.14		5.00	1	07/18/2023 15:10	WG2096705

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	2.22		1.00	1	07/21/2023 20:46	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:51	WG2092916
Barium,Total Recoverable	0.164		0.00500	1	07/12/2023 19:51	WG2092916
Calcium, Total Recoverable	127		0.200	1	07/12/2023 19:51	WG2092916
Iron, Total Recoverable	ND		0.0600	1	07/12/2023 19:51	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:51	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	8.25		0.200	1	07/12/2023 19:51	WG2092916
Manganese, Total Recoverable	4.22		0.00300	1	07/12/2023 19:51	WG2092916
Sodium, Total Recoverable	23.3		5.00	1	07/12/2023 19:51	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:51	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:51	WG2092916

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/14/2023 15:45	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/14/2023 15:45	WG2092924
Cadmium, Total Recoverable	0.0137		0.00100	1	07/14/2023 15:45	WG2092924
Cobalt, Total Recoverable	ND		0.00300	1	07/14/2023 15:45	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/14/2023 15:45	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/14/2023 15:45	WG2092924
Nickel, Total Recoverable	0.0259		0.00400	1	07/14/2023 15:45	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/14/2023 15:45	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/14/2023 15:45	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/14/2023 15:45	WG2092924
Zinc, Total Recoverable	0.0739		0.00500	1	07/14/2023 15:45	WG2092924

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 04:44	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 04:44	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 04:44	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 04:44	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 04:44	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 04:44	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 04:44	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 04:44	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 04:44	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 04:44	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 04:44	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 04:44	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 04:44	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 04:44	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 04:44	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 04:44	WG2093044
Acetone	ND		10.0	1	07/12/2023 04:44	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 04:44	WG2093044
Benzene	ND		1.00	1	07/12/2023 04:44	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 04:44	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 04:44	WG2093044
Bromoform	ND		1.00	1	07/12/2023 04:44	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 04:44	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 04:44	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 04:44	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 04:44	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 04:44	WG2093044
Chloroform	ND		1.00	1	07/12/2023 04:44	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 04:44	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 04:44	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 04:44	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 04:44	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 04:44	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 04:44	WG2093044
Styrene	ND		1.00	1	07/12/2023 04:44	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 04:44	WG2093044
Toluene	ND		1.00	1	07/12/2023 04:44	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 04:44	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 04:44	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 04:44	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 04:44	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 04:44	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 04:44	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 04:44	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 04:44	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 04:44	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 04:44	WG2093044
(S) 1,2-Dichloroethane-d4	105			70.0-130	07/12/2023 04:44	WG2093044
(S) 4-Bromofluorobenzene	98.0			77.0-126	07/12/2023 04:44	WG2093044
(S) Toluene-d8	103			80.0-120	07/12/2023 04:44	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

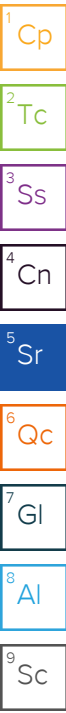
7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.36	su
Specific Conductance (on site)	929	umhos/cm
Temperature (on-site)	19	Deg. C
Turbidity (on-site)	5.4	NTU
Dissolved Oxygen (on-site)	0.3	mg/l
eH/ORP (On Site)	171.6	mV
Depth to water (DTW) (FROM TOC)	59.55	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	483		10.0	1	07/13/2023 13:00	WG2094232

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	429		10.0	1	07/17/2023 11:40	WG2095978
Alkalinity,Bicarbonate	429		10.0	1	07/17/2023 11:40	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 11:40	WG2095978

Sample Narrative:

L1633864-12 WG2095978: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:22	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.100	1	07/11/2023 20:35	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	21.5		3.00	1	07/18/2023 12:20	WG2096724
Sulfate	ND		5.00	1	07/18/2023 12:20	WG2096724

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	1.76		1.00	1	07/21/2023 21:33	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:54	WG2092916
Barium, Total Recoverable	0.0727		0.00500	1	07/12/2023 19:54	WG2092916
Calcium, Total Recoverable	172		0.200	1	07/12/2023 19:54	WG2092916
Iron, Total Recoverable	2.37		0.0600	1	07/12/2023 19:54	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:54	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	3.66		0.200	1	07/12/2023 19:54	WG2092916
Manganese, Total Recoverable	2.73		0.00300	1	07/12/2023 19:54	WG2092916
Sodium, Total Recoverable	10.2		5.00	1	07/12/2023 19:54	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:54	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:54	WG2092916

1 Cp

2 Tc

3 Ss

4 Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/14/2023 15:48	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/14/2023 15:48	WG2092924
Cadmium, Total Recoverable	ND		0.00100	1	07/14/2023 15:48	WG2092924
Cobalt, Total Recoverable	0.0273		0.00300	1	07/14/2023 15:48	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/14/2023 15:48	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/14/2023 15:48	WG2092924
Nickel, Total Recoverable	0.0701		0.00400	1	07/14/2023 15:48	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/14/2023 15:48	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/14/2023 15:48	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/14/2023 15:48	WG2092924
Zinc, Total Recoverable	0.0580	<u>B</u>	0.00500	1	07/14/2023 15:48	WG2092924

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 06:46	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 06:46	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 06:46	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 06:46	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 06:46	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 06:46	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 06:46	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 06:46	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 06:46	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 06:46	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 06:46	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 06:46	WG2093044
1,4-Dichlorobenzene	1.57		1.00	1	07/12/2023 06:46	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 06:46	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 06:46	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 06:46	WG2093044
Acetone	ND		10.0	1	07/12/2023 06:46	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 06:46	WG2093044
Benzene	ND		1.00	1	07/12/2023 06:46	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 06:46	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 06:46	WG2093044
Bromoform	ND		1.00	1	07/12/2023 06:46	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 06:46	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 06:46	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 06:46	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 06:46	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 06:46	WG2093044
Chloroform	ND		1.00	1	07/12/2023 06:46	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 06:46	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 06:46	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 06:46	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 06:46	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 06:46	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 06:46	WG2093044
Styrene	ND		1.00	1	07/12/2023 06:46	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 06:46	WG2093044
Toluene	ND		1.00	1	07/12/2023 06:46	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 06:46	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 06:46	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 06:46	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 06:46	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 06:46	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 06:46	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 06:46	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 06:46	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 06:46	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 06:46	WG2093044
(S) 1,2-Dichloroethane-d4	105			70.0-130	07/12/2023 06:46	WG2093044
(S) 4-Bromofluorobenzene	98.8			77.0-126	07/12/2023 06:46	WG2093044
(S) Toluene-d8	104			80.0-120	07/12/2023 06:46	WG2093044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

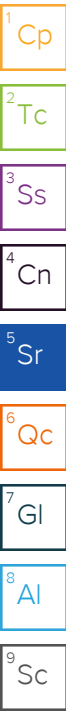
7 Gl

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.82	su
Specific Conductance (on site)	597	umhos/cm
Temperature (on-site)	19.3	Deg. C
Turbidity (on-site)	4.4	NTU
Dissolved Oxygen (on-site)	4.6	mg/l
eH/ORP (On Site)	158.6	mV
Depth to water (DTW) (FROM TOC)	56.15	ft



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Dissolved Solids	305		10.0	1	07/13/2023 13:00	WG2094232

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Alkalinity	272		10.0	1	07/17/2023 11:44	WG2095978
Alkalinity,Bicarbonate	272		10.0	1	07/17/2023 11:44	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 11:44	WG2095978

Sample Narrative:

L1633864-13 WG2095978: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.161	P1	0.100	1	07/12/2023 13:30	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.70		0.100	1	07/11/2023 20:37	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	5.15		3.00	1	07/18/2023 13:28	WG2096724
Sulfate	ND		5.00	1	07/18/2023 13:28	WG2096724

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
TOC	ND		1.00	1	07/21/2023 21:45	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:57	WG2092916
Barium, Total Recoverable	0.0471		0.00500	1	07/12/2023 19:57	WG2092916
Calcium, Total Recoverable	110		0.200	1	07/12/2023 19:57	WG2092916
Iron, Total Recoverable	ND		0.0600	1	07/12/2023 19:57	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:57	WG2092916

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Magnesium, Total Recoverable	1.39		0.200	1	07/12/2023 19:57	WG2092916
Manganese, Total Recoverable	ND		0.00300	1	07/12/2023 19:57	WG2092916
Sodium, Total Recoverable	5.75		5.00	1	07/12/2023 19:57	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:57	WG2092916
Selenium, Total Recoverable	ND		0.0100	1	07/12/2023 19:57	WG2092916

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic, Total Recoverable	ND		0.00500	1	07/14/2023 15:51	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/14/2023 15:51	WG2092924
Cadmium, Total Recoverable	ND		0.00100	1	07/14/2023 15:51	WG2092924
Cobalt, Total Recoverable	ND		0.00300	1	07/14/2023 15:51	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/14/2023 15:51	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/14/2023 15:51	WG2092924
Nickel, Total Recoverable	ND		0.00400	1	07/14/2023 15:51	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/14/2023 15:51	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/14/2023 15:51	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/14/2023 15:51	WG2092924
Zinc, Total Recoverable	0.0105	<u>B J</u>	0.00500	1	07/14/2023 15:51	WG2092924

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 07:04	WG2093044
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 07:04	WG2093044
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 07:04	WG2093044
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 07:04	WG2093044
1,1-Dichloroethane	ND		1.00	1	07/12/2023 07:04	WG2093044
1,1-Dichloroethene	ND		1.00	1	07/12/2023 07:04	WG2093044
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 07:04	WG2093044
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 07:04	WG2093044
1,2-Dibromoethane	ND		1.00	1	07/12/2023 07:04	WG2093044
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 07:04	WG2093044
1,2-Dichloroethane	ND		1.00	1	07/12/2023 07:04	WG2093044
1,2-Dichloropropane	ND		1.00	1	07/12/2023 07:04	WG2093044
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 07:04	WG2093044
2-Butanone (MEK)	ND		5.00	1	07/12/2023 07:04	WG2093044
2-Hexanone	ND		5.00	1	07/12/2023 07:04	WG2093044
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 07:04	WG2093044
Acetone	ND		10.0	1	07/12/2023 07:04	WG2093044
Acrylonitrile	ND		20.0	1	07/12/2023 07:04	WG2093044
Benzene	ND		1.00	1	07/12/2023 07:04	WG2093044
Bromochloromethane	ND		1.00	1	07/12/2023 07:04	WG2093044
Bromodichloromethane	ND		1.00	1	07/12/2023 07:04	WG2093044
Bromoform	ND		1.00	1	07/12/2023 07:04	WG2093044
Bromomethane	ND		1.00	1	07/12/2023 07:04	WG2093044
Carbon disulfide	ND		1.00	1	07/12/2023 07:04	WG2093044
Carbon tetrachloride	ND		1.00	1	07/12/2023 07:04	WG2093044
Chlorobenzene	ND		1.00	1	07/12/2023 07:04	WG2093044
Chloroethane	ND		1.00	1	07/12/2023 07:04	WG2093044
Chloroform	ND		1.00	1	07/12/2023 07:04	WG2093044
Chloromethane	ND		1.00	1	07/12/2023 07:04	WG2093044
Dibromochloromethane	ND		1.00	1	07/12/2023 07:04	WG2093044
Dibromomethane	ND		1.00	1	07/12/2023 07:04	WG2093044

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylbenzene	ND		1.00	1	07/12/2023 07:04	WG2093044
Iodomethane	ND		1.00	1	07/12/2023 07:04	WG2093044
Methylene Chloride	ND		1.07	1	07/12/2023 07:04	WG2093044
Styrene	ND		1.00	1	07/12/2023 07:04	WG2093044
Tetrachloroethene	ND		1.00	1	07/12/2023 07:04	WG2093044
Toluene	ND		1.00	1	07/12/2023 07:04	WG2093044
Trichloroethene	ND		1.00	1	07/12/2023 07:04	WG2093044
Trichlorofluoromethane	ND		1.00	1	07/12/2023 07:04	WG2093044
Vinyl acetate	ND		5.00	1	07/12/2023 07:04	WG2093044
Vinyl chloride	ND		1.00	1	07/12/2023 07:04	WG2093044
Xylenes, Total	ND		1.00	1	07/12/2023 07:04	WG2093044
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 07:04	WG2093044
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 07:04	WG2093044
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 07:04	WG2093044
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 07:04	WG2093044
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 07:04	WG2093044
(S) 1,2-Dichloroethane-d4	105			70.0-130	07/12/2023 07:04	WG2093044
(S) 4-Bromofluorobenzene	97.2			77.0-126	07/12/2023 07:04	WG2093044
(S) Toluene-d8	103			80.0-120	07/12/2023 07:04	WG2093044

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Dissolved Solids	400		10.0	1	07/13/2023 10:05	WG2093592

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Alkalinity	352		10.0	1	07/17/2023 11:48	WG2095978
Alkalinity,Bicarbonate	352		10.0	1	07/17/2023 11:48	WG2095978
Alkalinity,Carbonate	ND		10.0	1	07/17/2023 11:48	WG2095978

Sample Narrative:

L1633864-14 WG2095978: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Ammonia Nitrogen	ND		0.100	1	07/12/2023 13:33	WG2092799

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Nitrate-Nitrite	ND		0.100	1	07/11/2023 20:38	WG2092816

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Chloride	15.0		3.00	1	07/18/2023 14:19	WG2096724
Sulfate	ND		5.00	1	07/18/2023 14:19	WG2096724

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
TOC	1.50		1.00	1	07/21/2023 21:58	WG2099016

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
Silver, Total Recoverable	ND		0.0500	1	07/12/2023 19:59	WG2092916
Barium,Total Recoverable	0.206		0.00500	1	07/12/2023 19:59	WG2092916
Calcium, Total Recoverable	109		0.200	1	07/12/2023 19:59	WG2092916
Iron, Total Recoverable	1.20		0.0600	1	07/12/2023 19:59	WG2092916
Potassium, Total Recoverable	ND		3.00	1	07/12/2023 19:59	WG2092916
Magnesium, Total Recoverable	4.44		0.200	1	07/12/2023 19:59	WG2092916
Manganese,Total Recoverable	40.1		0.00600	5	07/13/2023 18:47	WG2092916
Sodium,Total Recoverable	9.87		5.00	1	07/12/2023 19:59	WG2092916
Lead, Total Recoverable	ND		0.00500	1	07/12/2023 19:59	WG2092916
Selenium, Total Recoverable	0.0221		0.0100	1	07/12/2023 19:59	WG2092916

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	ND		0.00500	1	07/14/2023 15:55	WG2092924
Beryllium, Total Recoverable	ND		0.00100	1	07/14/2023 15:55	WG2092924
Cadmium, Total Recoverable	0.00195		0.00100	1	07/14/2023 15:55	WG2092924
Cobalt, Total Recoverable	0.0248		0.00300	1	07/14/2023 15:55	WG2092924
Chromium, Total Recoverable	ND		0.00300	1	07/14/2023 15:55	WG2092924
Copper, Total Recoverable	ND		0.00400	1	07/14/2023 15:55	WG2092924
Nickel, Total Recoverable	0.166		0.00400	1	07/14/2023 15:55	WG2092924
Antimony, Total Recoverable	ND		0.00200	1	07/14/2023 15:55	WG2092924
Thallium, Total Recoverable	ND		0.00100	1	07/14/2023 15:55	WG2092924
Vanadium, Total Recoverable	ND		0.00300	1	07/14/2023 15:55	WG2092924
Zinc, Total Recoverable	0.156		0.00500	1	07/14/2023 15:55	WG2092924

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	07/12/2023 16:12	WG2093479
1,1,1-Trichloroethane	ND		1.00	1	07/12/2023 16:12	WG2093479
1,1,2,2-Tetrachloroethane	ND		1.00	1	07/12/2023 16:12	WG2093479
1,1,2-Trichloroethane	ND		1.00	1	07/12/2023 16:12	WG2093479
1,1-Dichloroethane	ND		1.00	1	07/12/2023 16:12	WG2093479
1,1-Dichloroethene	ND		1.00	1	07/12/2023 16:12	WG2093479
1,2,3-Trichloropropane	ND		1.00	1	07/12/2023 16:12	WG2093479
1,2-Dibromo-3-Chloropropane	ND		2.00	1	07/12/2023 16:12	WG2093479
1,2-Dibromoethane	ND		1.00	1	07/12/2023 16:12	WG2093479
1,2-Dichlorobenzene	ND		1.00	1	07/12/2023 16:12	WG2093479
1,2-Dichloroethane	ND		1.00	1	07/12/2023 16:12	WG2093479
1,2-Dichloropropane	ND		1.00	1	07/12/2023 16:12	WG2093479
1,4-Dichlorobenzene	ND		1.00	1	07/12/2023 16:12	WG2093479
2-Butanone (MEK)	ND		5.00	1	07/12/2023 16:12	WG2093479
2-Hexanone	ND		5.00	1	07/12/2023 16:12	WG2093479
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	07/12/2023 16:12	WG2093479
Acetone	ND		10.0	1	07/12/2023 16:12	WG2093479
Acrylonitrile	ND		20.0	1	07/12/2023 16:12	WG2093479
Benzene	ND		1.00	1	07/12/2023 16:12	WG2093479
Bromochloromethane	ND		1.00	1	07/12/2023 16:12	WG2093479
Bromodichloromethane	ND		1.00	1	07/12/2023 16:12	WG2093479
Bromoform	ND		1.00	1	07/12/2023 16:12	WG2093479
Bromomethane	ND		1.00	1	07/12/2023 16:12	WG2093479
Carbon disulfide	ND		1.00	1	07/12/2023 16:12	WG2093479
Carbon tetrachloride	ND		1.00	1	07/12/2023 16:12	WG2093479
Chlorobenzene	ND		1.00	1	07/12/2023 16:12	WG2093479
Chloroethane	ND		1.00	1	07/12/2023 16:12	WG2093479
Chloroform	ND		1.00	1	07/12/2023 16:12	WG2093479
Chloromethane	ND		1.00	1	07/12/2023 16:12	WG2093479
Dibromochloromethane	ND		1.00	1	07/12/2023 16:12	WG2093479
Dibromomethane	ND		1.00	1	07/12/2023 16:12	WG2093479
Ethylbenzene	ND		1.00	1	07/12/2023 16:12	WG2093479
Iodomethane	2.32	J	1.00	1	07/12/2023 16:12	WG2093479
Methylene Chloride	ND		1.07	1	07/12/2023 16:12	WG2093479
Styrene	ND		1.00	1	07/12/2023 16:12	WG2093479
Tetrachloroethene	ND		1.00	1	07/12/2023 16:12	WG2093479
Toluene	ND		1.00	1	07/12/2023 16:12	WG2093479
Trichloroethene	ND		1.00	1	07/12/2023 16:12	WG2093479
Trichlorofluoromethane	ND		1.00	1	07/12/2023 16:12	WG2093479
Vinyl acetate	ND	J4	5.00	1	07/12/2023 16:12	WG2093479
Vinyl chloride	ND		1.00	1	07/12/2023 16:12	WG2093479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Xylenes, Total	ND		1.00	1	07/12/2023 16:12	WG2093479
cis-1,2-Dichloroethene	ND		1.00	1	07/12/2023 16:12	WG2093479
cis-1,3-Dichloropropene	ND		1.00	1	07/12/2023 16:12	WG2093479
trans-1,2-Dichloroethene	ND		1.00	1	07/12/2023 16:12	WG2093479
trans-1,3-Dichloropropene	ND		1.00	1	07/12/2023 16:12	WG2093479
trans-1,4-Dichloro-2-butene	ND		1.00	1	07/12/2023 16:12	WG2093479
(S) 1,2-Dichloroethane-d4	109			70.0-130	07/12/2023 16:12	WG2093479
(S) 4-Bromofluorobenzene	88.7			77.0-126	07/12/2023 16:12	WG2093479
(S) Toluene-d8	94.6			80.0-120	07/12/2023 16:12	WG2093479

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3948766-1 07/13/23 10:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

1 Cp

2 Tc

3 Ss

L1633581-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633581-01 07/13/23 10:05 • (DUP) R3948766-3 07/13/23 10:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	369	377	1	2.14		5

4 Cn

5 Sr

L1633864-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-07 07/13/23 10:05 • (DUP) R3948766-4 07/13/23 10:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	393	398	1	1.26		5

6 Qc

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R3948766-2 07/13/23 10:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8480	96.4	77.3-123	

9 Sc

Method Blank (MB)

(MB) R3949273-1 07/13/23 16:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

1 Cp

2 Tc

3 Ss

L1634046-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1634046-05 07/13/23 16:08 • (DUP) R3949273-4 07/13/23 16:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	2250	2560	1	12.9	J3	5

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3949273-2 07/13/23 16:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	7660	87.0	77.3-123	

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3949810-1 07/13/23 13:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

¹Cp

²Tc

³Ss

L1633460-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1633460-05 07/13/23 13:00 • (DUP) R3949810-3 07/13/23 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	271	270	1	0.370		5

⁴Cn

⁵Sr

L1633650-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633650-01 07/13/23 13:00 • (DUP) R3949810-4 07/13/23 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	332	364	1	9.20	J3	5

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3949810-2 07/13/23 13:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8590	97.6	77.3-123	

⁹Sc

Method Blank (MB)

(MB) R3949943-1 07/14/23 12:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	ND		2.82	10.0

1 Cp

2 Tc

3 Ss

L1633768-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633768-01 07/14/23 12:58 • (DUP) R3949943-3 07/14/23 12:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	558	544	1	2.54		5

4 Cn

5 Sr

L1633864-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-02 07/14/23 12:58 • (DUP) R3949943-4 07/14/23 12:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	184	166	1	10.3	J3	5

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3949943-2 07/14/23 12:58

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	9000	102	77.3-123	

Method Blank (MB)

(MB) R3948256-2 07/13/23 09:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	ND		2.71	20.0
Alkalinity,Bicarbonate	ND		2.71	20.0
Alkalinity,Carbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1633503-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1633503-08 07/13/23 10:20 • (DUP) R3948256-3 07/13/23 10:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	83.2	83.0	1	0.270		20
Alkalinity,Bicarbonate	83.2	83.0	1	0.270		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1633864-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-04 07/13/23 13:23 • (DUP) R3948256-4 07/13/23 13:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	194	192	1	0.839		20
Alkalinity,Bicarbonate	194	192	1	0.839		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5



Laboratory Control Sample (LCS)

(LCS) R3948256-1 07/13/23 09:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Alkalinity	100	107	107	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3949298-2 07/17/23 10:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	ND		2.71	20.0
Alkalinity,Bicarbonate	ND		2.71	20.0
Alkalinity,Carbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1633770-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633770-01 07/17/23 10:43 • (DUP) R3949298-3 07/17/23 10:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	164	164	1	0.316		20
Alkalinity,Bicarbonate	164	164	1	0.316		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1634156-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1634156-01 07/17/23 12:36 • (DUP) R3949298-4 07/17/23 12:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	894	905	1	1.28		20
Alkalinity,Bicarbonate	707	716	1	1.23		20
Alkalinity,Carbonate	186	189	1	1.45		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5



Laboratory Control Sample (LCS)

(LCS) R3949298-1 07/17/23 10:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Alkalinity	100	98.3	98.3	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3947829-1 07/12/23 12:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633864-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-13 07/12/23 13:30 • (DUP) R3947829-7 07/12/23 13:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	0.161	0.102	1	200	P1	10

L1633864-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-03 07/12/23 13:03 • (DUP) R3947829-5 07/12/23 13:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R3947829-2 07/12/23 12:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.71	103	90.0-110	

L1633864-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633864-02 07/12/23 12:58 • (MS) R3947829-3 07/12/23 13:00 • (MSD) R3947829-4 07/12/23 13:01

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	ND	5.07	5.25	101	105	1	90.0-110			3.49	10

L1633864-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633864-12 07/12/23 13:22 • (MS) R3947829-6 07/12/23 13:24

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.12	102	1	90.0-110	

Method Blank (MB)

(MB) R3947356-1 07/11/23 19:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Nitrate-Nitrite	ND		0.0197	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633570-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633570-01 07/11/23 20:02 • (DUP) R3947356-3 07/11/23 20:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	ND	ND	1	0.000		20

L1633864-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-08 07/11/23 20:23 • (DUP) R3947356-5 07/11/23 20:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3947356-2 07/11/23 19:58

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Nitrate-Nitrite	2.50	2.50	100	90.0-110	

L1633570-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633570-01 07/11/23 20:02 • (MS) R3947356-4 07/11/23 20:05

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Nitrate-Nitrite	2.50	ND	2.72	109	1	90.0-110	

L1633864-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633864-08 07/11/23 20:23 • (MS) R3947356-6 07/11/23 20:29 • (MSD) R3947356-7 07/11/23 20:30

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Nitrate-Nitrite	2.50	ND	2.73	2.65	109	106	1	90.0-110			2.97	20

Method Blank (MB)

(MB) R3949944-1 07/18/23 09:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	ND		0.0519	1.00
Sulfate	ND		0.0774	5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1633673-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633673-01 07/18/23 10:40 • (DUP) R3949944-3 07/18/23 10:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	143	137	1	3.87		15
Sulfate	69.2	67.1	1	3.03		15

L1634239-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1634239-01 07/18/23 15:20 • (DUP) R3949944-6 07/18/23 15:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	6.32	6.26	1	0.903		15
Sulfate	12.7	12.7	1	0.210		15

Laboratory Control Sample (LCS)

(LCS) R3949944-2 07/18/23 09:34

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	39.0	97.6	80.0-120	
Sulfate	40.0	40.8	102	80.0-120	

L1633673-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633673-01 07/18/23 10:40 • (MS) R3949944-4 07/18/23 10:59 • (MSD) R3949944-5 07/18/23 11:09

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	50.0	143	184	182	83.2	77.9	1	80.0-120		J6	1.44	15
Sulfate	50.0	69.2	117	117	95.4	95.7	1	80.0-120			0.147	15

L1634239-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1634239-01 07/18/23 15:20 • (MS) R3949944-7 07/18/23 15:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	6.32	53.6	94.7	1	80.0-120	
Sulfate	50.0	12.7	60.8	96.3	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3950404-1 07/18/23 09:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	ND		0.0519	1.00
Sulfate	ND		0.0774	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633864-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-12 07/18/23 12:20 • (DUP) R3950404-5 07/18/23 13:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	21.5	21.4	1	0.174		15
Sulfate	ND	ND	1	0.000		15

L1635301-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1635301-02 07/18/23 19:06 • (DUP) R3950404-6 07/18/23 19:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	4.37	4.38	1	0.288		15
Sulfate	30.1	28.5	1	5.33		15

Laboratory Control Sample (LCS)

(LCS) R3950404-2 07/18/23 09:53

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	40.1	100	80.0-120	
Sulfate	40.0	39.5	98.9	80.0-120	

L1633864-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633864-12 07/18/23 12:20 • (MS) R3950404-3 07/18/23 12:37 • (MSD) R3950404-4 07/18/23 12:54

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	50.0	21.5	70.4	70.4	97.9	98.0	1	80.0-120			0.0987	15
Sulfate	50.0	ND	48.8	49.2	97.7	98.3	1	80.0-120			0.658	15

L1635301-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1635301-02 07/18/23 19:06 • (MS) R3950404-7 07/18/23 19:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	4.37	53.5	98.2	1	80.0-120	
Sulfate	50.0	30.1	78.4	96.6	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3951117-2 07/20/23 13:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC	ND		0.102	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633268-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633268-01 07/20/23 21:41 • (DUP) R3951117-5 07/20/23 21:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	6.63	6.56	1	1.03		20

L1633161-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1633161-02 07/21/23 09:47 • (DUP) R3951117-8 07/21/23 10:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	8.04	6.78	1	17.0		20

Laboratory Control Sample (LCS)

(LCS) R3951117-1 07/20/23 13:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	25.0	24.8	99.3	85.0-115	

L1633145-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633145-01 07/20/23 14:02 • (MS) R3951117-3 07/20/23 14:21 • (MSD) R3951117-4 07/20/23 14:41

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	17.7	42.8	43.2	101	102	1	80.0-120			0.837	20

L1633148-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633148-04 07/20/23 15:40 • (MS) R3951117-6 07/21/23 00:23 • (MSD) R3951117-7 07/21/23 00:41

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	5.19	30.6	29.9	102	98.7	1	80.0-120			2.45	20

Method Blank (MB)

(MB) R3951482-2 07/21/23 13:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC	ND		0.102	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633321-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1633321-03 07/21/23 15:39 • (DUP) R3951482-5 07/21/23 15:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	2.42	2.44	1	0.659		20

L1633379-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633379-01 07/21/23 18:24 • (DUP) R3951482-8 07/21/23 18:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	4.48	4.86	1	8.11		20

Laboratory Control Sample (LCS)

(LCS) R3951482-1 07/21/23 12:51

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	25.0	24.8	99.3	85.0-115	

L1633321-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633321-02 07/21/23 14:48 • (MS) R3951482-3 07/21/23 15:07 • (MSD) R3951482-4 07/21/23 15:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	3.15	27.4	27.5	97.1	97.2	1	80.0-120			0.0729	20

L1633326-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633326-04 07/21/23 17:35 • (MS) R3951482-6 07/21/23 17:52 • (MSD) R3951482-7 07/21/23 18:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	1.87	25.9	27.3	96.2	102	1	80.0-120			5.30	20

Method Blank (MB)

(MB) R3950627-2 07/20/23 03:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC	ND		0.102	1.00

1 Cp

2 Tc

3 Ss

L1633864-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-05 07/20/23 09:34 • (DUP) R3950627-5 07/20/23 09:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	2.54	2.21	1	14.2		20

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3950627-1 07/20/23 03:09

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	25.0	24.8	99.0	85.0-115	

6 Qc

7 Gl

8 Al

L1633864-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633864-04 07/20/23 08:44 • (MS) R3950627-3 07/20/23 09:02 • (MSD) R3950627-4 07/20/23 09:20

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	3.84	26.3	25.6	90.0	87.2	1	80.0-120			2.69	20

9 Sc

Method Blank (MB)

(MB) R3951638-2 07/21/23 17:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC	0.334	↓	0.102	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633864-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1633864-07 07/21/23 19:41 • (DUP) R3951638-5 07/21/23 19:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	1.49	1.35	1	9.78		20

L1633891-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1633891-02 07/21/23 23:12 • (DUP) R3951638-6 07/21/23 23:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	1.06	ND	1	16.1		20

Laboratory Control Sample (LCS)

(LCS) R3951638-1 07/21/23 16:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	25.0	24.6	98.4	85.0-115	

L1633864-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633864-06 07/21/23 18:46 • (MS) R3951638-3 07/21/23 19:07 • (MSD) R3951638-4 07/21/23 19:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	ND	24.6	24.6	96.2	96.4	1	80.0-120			0.244	20

L1633891-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633891-01 07/22/23 19:28 • (MS) R3951638-9 07/22/23 19:50 • (MSD) R3951638-10 07/22/23 20:11

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	25.0	ND	25.7	25.3	100	98.7	1	80.0-120			1.41	20

Method Blank (MB)

(MB) R3948019-1 07/12/23 18:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silver, Total Recoverable	ND		0.00280	0.00500
Barium, Total Recoverable	ND		0.00170	0.00500
Calcium, Total Recoverable	ND		0.0463	1.00
Iron, Total Recoverable	ND		0.0141	0.100
Potassium, Total Recoverable	ND		0.102	1.00
Magnesium, Total Recoverable	ND		0.0111	1.00
Manganese, Total Recoverable	ND		0.00120	0.0100
Sodium, Total Recoverable	0.141		0.0111	1.00
Lead, Total Recoverable	ND		0.00190	0.00500
Selenium, Total Recoverable	ND		0.00740	0.0100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3948019-2 07/12/23 18:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver, Total Recoverable	0.200	0.190	95.2	80.0-120	
Barium, Total Recoverable	1.00	1.02	102	80.0-120	
Calcium, Total Recoverable	10.0	9.78	97.8	80.0-120	
Iron, Total Recoverable	10.0	9.76	97.6	80.0-120	
Potassium, Total Recoverable	10.0	9.33	93.3	80.0-120	
Magnesium, Total Recoverable	10.0	9.43	94.3	80.0-120	
Manganese, Total Recoverable	1.00	0.998	99.8	80.0-120	
Sodium, Total Recoverable	10.0	10.2	102	80.0-120	
Lead, Total Recoverable	1.00	0.953	95.3	80.0-120	
Selenium, Total Recoverable	1.00	1.01	101	80.0-120	

L1633802-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633802-01 07/12/23 18:50 • (MS) R3948019-4 07/12/23 18:56 • (MSD) R3948019-5 07/12/23 18:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver, Total Recoverable	0.200	ND	0.203	0.207	102	103	1	75.0-125			1.56	20
Barium, Total Recoverable	1.00	0.150	1.14	1.16	99.4	101	1	75.0-125			1.65	20
Calcium, Total Recoverable	10.0	400	397	398	0.000	0.000	1	75.0-125	V	V	0.256	20
Iron, Total Recoverable	10.0	1.78	11.2	11.3	94.1	95.5	1	75.0-125			1.22	20
Potassium, Total Recoverable	10.0	72.8	81.7	81.0	89.2	81.8	1	75.0-125			0.909	20
Magnesium, Total Recoverable	10.0	37.6	45.8	45.8	81.8	81.7	1	75.0-125			0.00918	20
Manganese, Total Recoverable	1.00	0.518	1.51	1.52	98.8	101	1	75.0-125			1.17	20

L1633802-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633802-01 07/12/23 18:50 • (MS) R3948019-4 07/12/23 18:56 • (MSD) R3948019-5 07/12/23 18:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sodium, Total Recoverable	10.0	582	575	576	0.000	0.000	1	75.0-125	√	√	0.204	20
Lead, Total Recoverable	1.00	0.00879	0.962	0.985	95.3	97.7	1	75.0-125			2.38	20
Selenium, Total Recoverable	1.00	ND	1.16	1.16	115	115	1	75.0-125			0.226	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3948842-1 07/13/23 22:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic, Total Recoverable	ND		0.000250	0.00200
Beryllium, Total Recoverable	ND		0.000120	0.00200
Cadmium, Total Recoverable	ND		0.000160	0.00100
Cobalt, Total Recoverable	ND		0.000260	0.00200
Chromium, Total Recoverable	ND		0.000540	0.00200
Copper, Total Recoverable	ND		0.000520	0.00500
Nickel, Total Recoverable	ND		0.000350	0.00200
Antimony, Total Recoverable	ND		0.000754	0.00200
Thallium, Total Recoverable	ND		0.000190	0.00200
Vanadium, Total Recoverable	ND		0.000180	0.00500
Zinc, Total Recoverable	0.00690	↓	0.00256	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3948842-2 07/13/23 22:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic, Total Recoverable	0.0500	0.0499	99.9	80.0-120	
Beryllium, Total Recoverable	0.0500	0.0537	107	80.0-120	
Cadmium, Total Recoverable	0.0500	0.0513	103	80.0-120	
Cobalt, Total Recoverable	0.0500	0.0497	99.5	80.0-120	
Chromium, Total Recoverable	0.0500	0.0490	98.1	80.0-120	
Copper, Total Recoverable	0.0500	0.0504	101	80.0-120	
Nickel, Total Recoverable	0.0500	0.0501	100	80.0-120	
Antimony, Total Recoverable	0.0500	0.0497	99.4	80.0-120	
Thallium, Total Recoverable	0.0500	0.0489	97.9	80.0-120	
Vanadium, Total Recoverable	0.0500	0.0495	99.0	80.0-120	
Zinc, Total Recoverable	0.0500	0.0487	97.3	80.0-120	

L1633768-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633768-01 07/13/23 22:59 • (MS) R3948842-4 07/13/23 23:06 • (MSD) R3948842-5 07/13/23 23:09

Analyte	Spike Amount mg/l	Original Result	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, Total Recoverable	0.0500		0.0482	0.0470	94.8	92.4	1	75.0-125			2.54	20
Beryllium, Total Recoverable	0.0500		0.0531	0.0521	106	104	1	75.0-125			2.03	20
Cadmium, Total Recoverable	0.0500	ND	0.0500	0.0491	100	98.2	1	75.0-125			1.81	20
Cobalt, Total Recoverable	0.0500		0.0460	0.0453	91.8	90.4	1	75.0-125			1.58	20
Chromium, Total Recoverable	0.0500		0.0454	0.0445	90.8	89.1	1	75.0-125			1.87	20

L1633768-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633768-01 07/13/23 22:59 • (MS) R3948842-4 07/13/23 23:06 • (MSD) R3948842-5 07/13/23 23:09

Analyte	Spike Amount mg/l	Original Result	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Copper, Total Recoverable	0.0500		0.0557	0.0560	88.2	88.8	1	75.0-125			0.522	20
Nickel, Total Recoverable	0.0500		0.0453	0.0458	90.5	91.6	1	75.0-125			1.18	20
Antimony, Total Recoverable	0.0500		0.0485	0.0490	97.1	98.0	1	75.0-125			0.937	20
Thallium, Total Recoverable	0.0500		0.0488	0.0490	97.2	97.6	1	75.0-125			0.408	20
Vanadium, Total Recoverable	0.0500		0.0470	0.0462	93.9	92.4	1	75.0-125			1.63	20
Zinc, Total Recoverable	0.0500		2.21	2.20	9.82	0.000	1	75.0-125	∇	∇	0.512	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3947814-2 07/11/23 20:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.0940	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichlorobenzene	ND		0.101	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
1,4-Dichlorobenzene	ND		0.121	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	ND		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromochloromethane	ND		0.145	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromoform	ND		0.186	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	ND		0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	ND		0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3947814-2 07/11/23 20:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Vinyl chloride	ND		0.118	0.500
Xylenes, Total	ND		0.316	1.50
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 1,2-Dichloroethane-d4	94.4			70.0-130
(S) 4-Bromofluorobenzene	95.7			77.0-126
(S) Toluene-d8	108			80.0-120

Laboratory Control Sample (LCS)

(LCS) R3947814-1 07/11/23 19:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1,2-Tetrachloroethane	5.00	4.13	82.6	75.0-125	
1,1,1-Trichloroethane	5.00	4.06	81.2	73.0-124	
1,1,2,2-Tetrachloroethane	5.00	4.94	98.8	65.0-130	
1,1,2-Trichloroethane	5.00	4.30	86.0	80.0-120	
1,1-Dichloroethane	5.00	4.23	84.6	70.0-126	
1,1-Dichloroethene	5.00	4.25	85.0	71.0-124	
1,2,3-Trichloropropane	5.00	4.99	99.8	73.0-130	
1,2-Dibromo-3-Chloropropane	5.00	3.88	77.6	58.0-134	
1,2-Dibromoethane	5.00	4.58	91.6	80.0-122	
1,2-Dichlorobenzene	5.00	4.46	89.2	79.0-121	
1,2-Dichloroethane	5.00	4.89	97.8	70.0-128	
1,2-Dichloropropane	5.00	4.19	83.8	77.0-125	
1,4-Dichlorobenzene	5.00	4.70	94.0	79.0-120	
2-Butanone (MEK)	25.0	21.4	85.6	44.0-160	
2-Hexanone	25.0	23.7	94.8	67.0-149	
4-Methyl-2-pentanone (MIBK)	25.0	24.0	96.0	68.0-142	
Acetone	25.0	18.8	75.2	19.0-160	
Acrylonitrile	25.0	21.5	86.0	55.0-149	
Benzene	5.00	4.47	89.4	70.0-123	
Bromochloromethane	5.00	4.44	88.8	76.0-122	
Bromodichloromethane	5.00	4.12	82.4	75.0-120	
Bromoform	5.00	4.16	83.2	68.0-132	
Bromomethane	5.00	4.03	80.6	10.0-160	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3947814-1 07/11/23 19:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Carbon disulfide	5.00	3.65	73.0	61.0-128	
Carbon tetrachloride	5.00	4.29	85.8	68.0-126	
Chlorobenzene	5.00	4.26	85.2	80.0-121	
Chloroethane	5.00	4.22	84.4	47.0-150	
Chloroform	5.00	4.12	82.4	73.0-120	
Chloromethane	5.00	4.18	83.6	41.0-142	
Dibromochloromethane	5.00	4.40	88.0	77.0-125	
Dibromomethane	5.00	4.18	83.6	80.0-120	
Ethylbenzene	5.00	4.40	88.0	79.0-123	
Iodomethane	25.0	21.3	85.2	33.0-147	
Methylene Chloride	5.00	4.35	87.0	67.0-120	
Styrene	5.00	4.33	86.6	73.0-130	
Tetrachloroethene	5.00	4.84	96.8	72.0-132	
Toluene	5.00	4.51	90.2	79.0-120	
Trichloroethene	5.00	4.47	89.4	78.0-124	
Trichlorofluoromethane	5.00	4.51	90.2	59.0-147	
Vinyl acetate	25.0	25.1	100	11.0-160	
Vinyl chloride	5.00	4.44	88.8	67.0-131	
Xylenes, Total	15.0	12.9	86.0	79.0-123	
cis-1,2-Dichloroethene	5.00	4.00	80.0	73.0-120	
cis-1,3-Dichloropropene	5.00	4.36	87.2	80.0-123	
trans-1,2-Dichloroethene	5.00	4.16	83.2	73.0-120	
trans-1,3-Dichloropropene	5.00	4.73	94.6	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	4.67	93.4	33.0-144	
(S) 1,2-Dichloroethane-d4			103	70.0-130	
(S) 4-Bromofluorobenzene			96.4	77.0-126	
(S) Toluene-d8			105	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3948671-2 07/12/23 09:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.0940	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichlorobenzene	ND		0.101	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
1,4-Dichlorobenzene	ND		0.121	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	ND		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromochloromethane	ND		0.145	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromoform	ND		0.186	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	ND		0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	ND		0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3948671-2 07/12/23 09:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Vinyl chloride	ND		0.118	0.500
Xylenes, Total	ND		0.316	1.50
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 1,2-Dichloroethane-d4	93.6			70.0-130
(S) 4-Bromofluorobenzene	90.3			77.0-126
(S) Toluene-d8	98.6			80.0-120

Laboratory Control Sample (LCS)

(LCS) R3948671-1 07/12/23 08:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1,2-Tetrachloroethane	5.00	5.18	104	75.0-125	
1,1,1-Trichloroethane	5.00	5.14	103	73.0-124	
1,1,2,2-Tetrachloroethane	5.00	5.34	107	65.0-130	
1,1,2-Trichloroethane	5.00	5.04	101	80.0-120	
1,1-Dichloroethane	5.00	5.37	107	70.0-126	
1,1-Dichloroethene	5.00	5.07	101	71.0-124	
1,2,3-Trichloropropane	5.00	5.50	110	73.0-130	
1,2-Dibromo-3-Chloropropane	5.00	4.39	87.8	58.0-134	
1,2-Dibromoethane	5.00	5.06	101	80.0-122	
1,2-Dichlorobenzene	5.00	5.03	101	79.0-121	
1,2-Dichloroethane	5.00	5.15	103	70.0-128	
1,2-Dichloropropane	5.00	5.39	108	77.0-125	
1,4-Dichlorobenzene	5.00	5.40	108	79.0-120	
2-Butanone (MEK)	25.0	31.5	126	44.0-160	
2-Hexanone	25.0	28.3	113	67.0-149	
4-Methyl-2-pentanone (MIBK)	25.0	28.0	112	68.0-142	
Acetone	25.0	27.8	111	19.0-160	
Acrylonitrile	25.0	35.7	143	55.0-149	
Benzene	5.00	4.83	96.6	70.0-123	
Bromochloromethane	5.00	5.46	109	76.0-122	
Bromodichloromethane	5.00	5.14	103	75.0-120	
Bromoform	5.00	4.76	95.2	68.0-132	
Bromomethane	5.00	1.77	35.4	10.0-160	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3948671-1 07/12/23 08:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Carbon disulfide	5.00	4.25	85.0	61.0-128	
Carbon tetrachloride	5.00	5.53	111	68.0-126	
Chlorobenzene	5.00	4.84	96.8	80.0-121	
Chloroethane	5.00	6.27	125	47.0-150	
Chloroform	5.00	5.19	104	73.0-120	
Chloromethane	5.00	3.38	67.6	41.0-142	
Dibromochloromethane	5.00	5.38	108	77.0-125	
Dibromomethane	5.00	5.96	119	80.0-120	
Ethylbenzene	5.00	5.31	106	79.0-123	
Iodomethane	25.0	14.2	56.8	33.0-147	
Methylene Chloride	5.00	5.50	110	67.0-120	
Styrene	5.00	4.34	86.8	73.0-130	
Tetrachloroethene	5.00	5.08	102	72.0-132	
Toluene	5.00	4.84	96.8	79.0-120	
Trichloroethene	5.00	4.70	94.0	78.0-124	
Trichlorofluoromethane	5.00	4.90	98.0	59.0-147	
Vinyl acetate	25.0	51.0	204	11.0-160	J4
Vinyl chloride	5.00	5.19	104	67.0-131	
Xylenes, Total	15.0	15.3	102	79.0-123	
cis-1,2-Dichloroethene	5.00	5.45	109	73.0-120	
cis-1,3-Dichloropropene	5.00	4.89	97.8	80.0-123	
trans-1,2-Dichloroethene	5.00	5.11	102	73.0-120	
trans-1,3-Dichloropropene	5.00	4.56	91.2	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	3.95	79.0	33.0-144	
(S) 1,2-Dichloroethane-d4			102	70.0-130	
(S) 4-Bromofluorobenzene			98.3	77.0-126	
(S) Toluene-d8			96.9	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

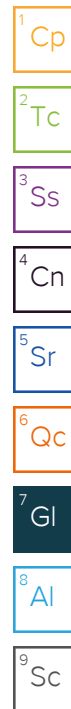
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address:
Eco-Vista (Tontitown)LF

88 Joyce Lane
 Russellville, AR 72801

Billing Information:
 jreyno10@wm.com
 P.O. Box 4745
 WM A/P DEPARTMENT
 Portland, OR 97208-4745

Report to:
Jodi Reynolds

Email To:
 ciara.children.beavers@jettenviro.com; jeffholm

Project Description:
 Eco-Vista - GW-July

City/State
 Collected:

Please Circle:
 PT MT CT ET

Phone: 501-993-8966

Client Project #
200

Lab Project #
WMECOVISAR-00019

Collected by (print):
Chris Fincher

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Date Results Needed

Immediately
 Packed on Ice N Y X

No. of
 Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs
MW-17 LGW-7	Grab	GW	43.85	7.10.23	1035	8
MW-19		GW	68.80		1705	8
MW-20 MW-16		GW	76.10		1630	8
MW-21 MW-15		GW	58.70		1555	8
LGW-2		GW	74.50		1525	8
LGW-3R		GW	55.70		0830	8
LGW-4		GW	60.75		0910	8
LGW-5		GW	71.00		0945	8
LGW-6		GW	50.45		1235	8
LGW-7		GW				8

Pres Chk	Analysis / Container / Preservative								
	ALK, CHLORIDE, SULFA 250mlHDPE-NoPres	CHLORIDE 125mlHDPE-NoPres	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	NH3,NO2NO3 250mlHDPE-H2SO4	TDS 1L-HDPE NoPres	TOC 250mlHDPE-HCl	V8260LL 40mlAmb-HCl	V8260LL TB 40mlAmb-HCl-BIK
				L2	L2	L2			



MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody
 constitutes acknowledgment and acceptance of the
 Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # *U035814*
B218

Table #
 Acctnum: **WMECOVISAR**
 Template: **T211193**
 Prelogin: **P1006574**
 PM: 616 - Stacy Kennedy
 PB:

Shipped Via: **FedEX Ground**

Remarks	Sample # (lab only)
	-01
	-02
	-03
	-04
	-05
	-06
	-07
	-08
	-09

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

Samples returned via:
 ___ UPS ___ FedEx ___ Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact: NP	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature) *[Signature]*

Date: 7.10.23
 Time: 1800

Received by: (Signature)

Trip Blank Received: Yes/ No
 3 (HCl) / MeoH
 TBR

Relinquished by: (Signature)

Date: _____
 Time: _____

Received by: (Signature)

Temp: _____ °C
 Bottles Received: 112

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____
 Time: _____

Received for lab by: (Signature) *[Signature]*

Date: 7.11.23
 Time: 9:00

Hold:

Condition:
 NCF / OK

Company Name/Address:

Eco-Vista (Tontitown)LF

88 Joyce Lane
Russellville, AR 72801

Billing Information:

jreyno10@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Report to:
Jodi Reynolds

Email To:
ciara.childers.beavers@jettenviro.com; jeffholm

Project Description:
Eco-Vista - GW-July

City/State
Collected:

Please Circle:
PT MT CT ET

Phone: **501-993-8966**

Client Project #
200

Lab Project #
WMECOVISAR-00019

Collected by (print):
Chris Fincher

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

Immediately

___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Packed on Ice N ___ Y

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # L163356d

Table #

Acctnum: **WMECOVISAR**

Template: **T211193**

Prelogin: **P1006574**

PM: **616 - Stacy Kennedy**

PB: 6/23/23

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK, CHLORIDE, SULFA 250mIHDPE-NoPres	CHLORIDE 125mIHDPE-NoPres	Metals 250mIHDPE-HNO3	NH3 250mIHDPE-H2SO4	NH3,NO2NO3 250mIHDPE-H2SO4	TDS 1L-HDPE NoPres	TOC 250mIHDPE-HCl	V8260LL 40mIAmb-HCl	V8260LL TB 40mIAmb-HCl-Bik	Remarks	Sample # (lab only)
LGW-8R	Grab	GW	11.00	7.10.23	1115	8	X		X		X	X	X	X			
LGW-9		GW	55.80		1355	8	X		X		X	X	X	X			-10
LGW-10		GW	60.25		1430	8	X		X		X	X	X	X			-11
LGW-14R		GW	59.50		1320	8	X		X		X	X	X	X			-12
LEACHATE-COMPOSITE		GW		7.11.23		8	X		X		X	X	X	X			-13
DUP 1		GW	77.77	7.10.23	0700	8	X		X		X	X	X	X			-14
DUP 2		GW				8	X		X		X	X	X	X			
LCS-1		GW				2		X		X							
LCS-2		GW				2		X		X							
LCS-3		GW				2		X		X							

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

UPS ___ FedEx ___ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature) *[Signature]*

Date:

7.10.23

Time:

1800

Received by: (Signature)

Trip Blank Received: Yes / No

HCL/MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

g 10

7.11.23 7:00